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Device connection technology for signals, data, and power from Phoenix Contact

COMBICON control

Connection technology for measurement and control technology and I/O modules: PCB terminal blocks and plug-in connectors with 2.54 to 7.62 mm pitch, screw, spring-cage, and insulation displacement connection, wave soldering.

From page 71



COMBICON high density & data

Plug-in connectors in miniature format - fast insulation displacement, spring, and pierce connection technology, T-branches for easy bus connections.

From page 45

COMBICON power

Connection technology for power electronics: PCB terminal blocks and plug-in connectors for currents up to 125 A, screw and spring-cage connection, panel feed-throughs.

From page 439

COMBICON compact

Device connections for building technology and LED applications: PCB terminal blocks and plug-in connectors with 2.5 to 7.5 mm pitch, screw and spring-cage connection as well as pin strips.

From page 385



Housing

Plastic and aluminum electronics housing: component housing and panel mounting bases for industrial electronics, component housing for building installation, innovative bus connections between housing.

From page 647





PLUSCON data

Plug-in connectors, panel feed-throughs, and cables for fieldbuses and networks.

See Catalog 2



PLUSCON circular

Flush-type plug-in connectors, plug-in connectors for assembly, and cables from M5 to M58 for signals, data, and power.

See Catalog 2

PLUSCON power

Plug-in charging systems for electromobility up to 400 A and plug-in connectors for power electronics up to 150 A.

See Catalog 2

PLUSCON device

Rectangular plug-in connectors with modular contact system for signals, power, and fiber optics with IP67 protection and available in various sizes.

See Catalog 2



PLUSCON solar

AC and DC connection systems for photovoltaic modules, inverters, and micro inverters.

See Catalog 2



Individual connection solutions for your application



Customer-specific adaptation of standard products

Found a product in our catalogs that meets your technical requirements, but you'd prefer a tailored solution?
No problem – our Solution Center will be happy to provide you with support in implementing your requirements. Whether it's individual colors, special printing, a specific number of contacts or complete cable assembly – just let us know what you want.







New customer-specific product developments

Phoenix Contact has been producing high-quality products for worldwide use for over 85 years.
Benefit from our extensive development, manufacturing, and process expertise for your individual solution. Together with you, we can transform great ideas into innovative products.

Intelligent solutions in housing and connection technology increasingly require custom concepts.
As a manufacturer, you can develop products with us that meet the requirements of today's markets, such as high quality, individual design, and great customer benefits at a reasonable price.

You will have the entire expertise of the Phoenix Contact Group at your disposal. From our own tool shop and machine building through plastic injection molding and metal production to expertise in electronics production, we offer a depth of manufacturing that enables us to implement even demanding projects and complex products within a short development period.
Our own laboratory carries out testing throughout the process, handles the necessary qualifications and, of course, international approvals.

As a manufacturer, you can focus on your core competencies and benefit from our expertise as specialists in connection and housing technology.
Great products need great ideas and experience. Together with the expertise of Phoenix Contact, you can implement your individual solution - right from the initial idea to cost-effective series production.

Our products and services range from customer-specific PCB connection technology with screw, spring or IDC fast connection, in all conceivable designs and colors...



...through corresponding electronics housing in special designs in the color and size of your choice, together with the appropriate connection technology...



...individual field cabling, with plug-in connectors with shielding for high data transmission speeds, splash-proof housing for harsh industrial environments...



...to complete solutions consisting, for example, of splash-proof housing including the appropriate connection technology for signal, data, and power transmission, plus the ideal PCB connection.



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Our service – added value for you

Phoenix Contact doesn't just offer the right products, it also provides a professional service for all aspects of device development. Wherever you are in the world, Phoenix Contact's global network means that you can rely on our service. Being at home all over the world and speaking the language of the user is what we understand by customer proximity. Proximity that ensures the best service for our partners. We live up to this with more than 40 customer-oriented subsidiaries and around 30 representatives in other countries.





Personal consultation and support

As our customer, you are always the focus of attention at Phoenix Contact, whether during consultation or as part of after sales support. Expert and personal consultation forms the basis of this approach. Even though we live in the age of the Internet, personal interaction with our customers is of great importance to us.

Our team of highly motivated staff are available to you at locations around the world.



Reliable delivery service

It goes without saying that our products are delivered reliably and on time. In addition to our optimized delivery service, we offer numerous options for making the purchasing process more efficient and transparent.

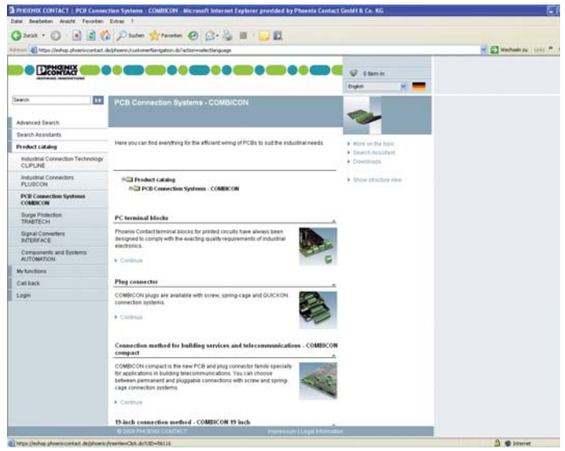
With warehouses in key industrial locations throughout the world, we ensure that you receive your products from Phoenix Contact cost-effectively and within the required delivery time.

Online catalog

The online catalog provides comprehensive, up-to-date information in 7 languages for more than 22,000 products from Phoenix Contact. Here you can find product-specific information such as technical data, notes on approvals, dimensional drawings, 3D data, etc. At the click of the mouse, you can easily generate a product data sheet in PDF format.

In over 15 countries, e-shop functions complete the online catalog. Following successful registration, you can therefore access your prices and delivery schedules at any time and you also have the option of placing orders directly online.

www.phoenixcontact.net/products



Quickly find product-specific information in the online catalog

Online search assistants

Online search assistants help you to search systematically and quickly for products from our extensive range of plug-in connectors. By selecting electrical values and other product properties, you are taken directly to the products that meet your requirements.

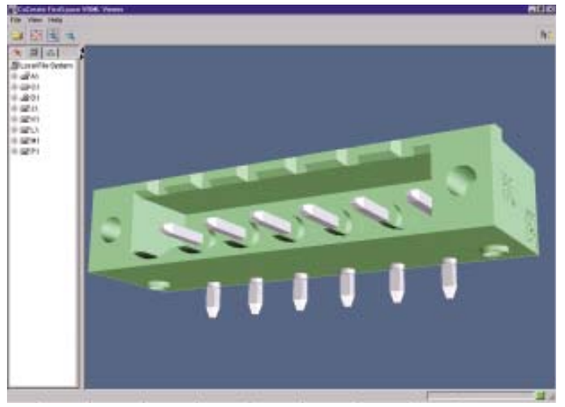
– COMBICON select
  PCB connection and electronics housing

– PLUSCON field select
  Flush-type plug-in connectors for sensor/actuator applications

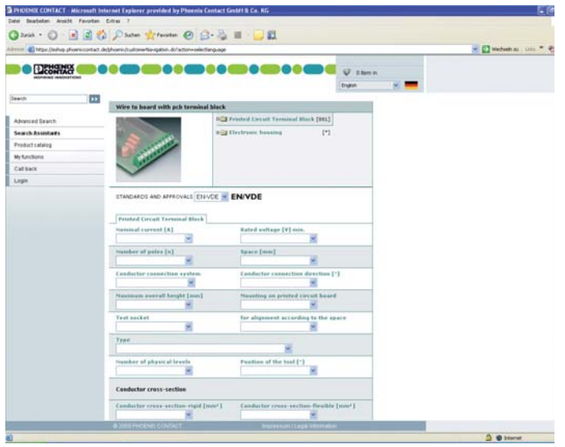
– PLUSCON data select
  Device plug-in connectors for fieldbuses and networks

– PLUSCON circular select
  M17 to M58 device plug-in connectors

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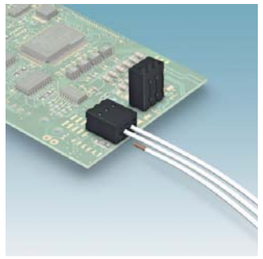
Easy download of 3D data



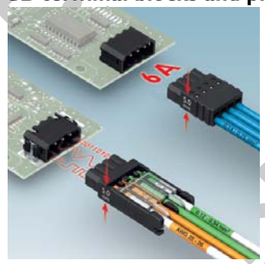
User-friendly product search with COMBICON select

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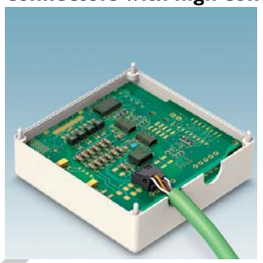
COMBICON HD - miniature PCB terminal blocks and plug-in connectors with high contact density



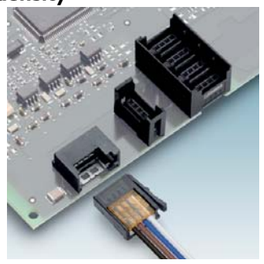
Miniature THR/SMD PCB terminal blocks and plug-in connectors with 2.5 mm pitch
PTSM 0,5...THR Page 51
PTSM 0,5...SMD Page 53



Miniature plugs and headers with 2.5 mm pitch
PTSM 0,5... Page 55
PTPM Page 55

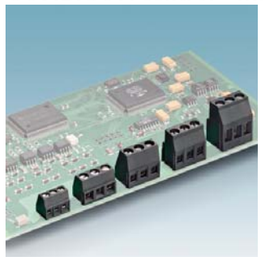


Miniature PCB terminal block with displacement connection with 2.5 mm pitch
PTQ 0,3...THR Page 63

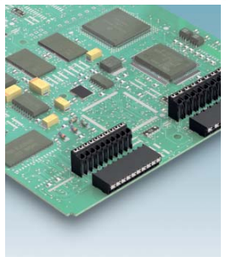


Plug-in connectors with displacement connection and headers with 2.0 mm pitch
CIOC...(M)(F) Page 65
CIOC...F(V)(H) Page 67

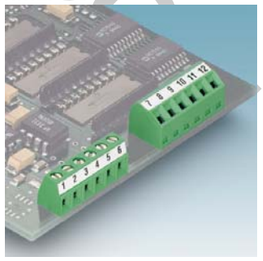
COMBICON control – multi-position and multi-level PCB terminal blocks



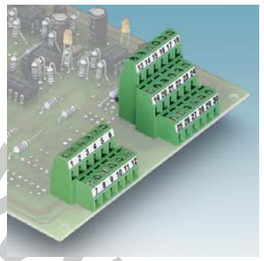
Through hole reflow applications with screw connection
3.5/3.81/5.0/5.08 mm pitch
MKDS Page 75



Through hole reflow applications with push-in spring connection
3.5/3.81/5.0/5.08 mm pitch
SPT-THR 1,5 Page 78

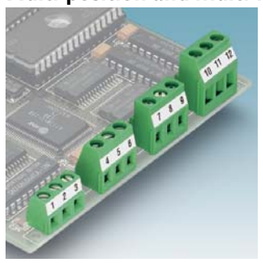


Multi-position PCB terminal blocks
2.54/3.5/3.81 mm pitch
MPT 0,5; 0,5 mm² Page 83
SMKDS 1; 1,5 mm² Page 85

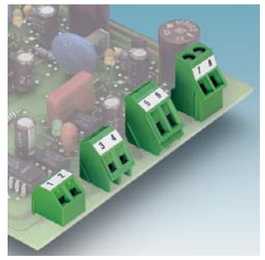


Double and three-level PCB terminal blocks with 3.5/3.81 mm pitch
MKKDS 1/... Page 85
MK3DS 1/... Page 87

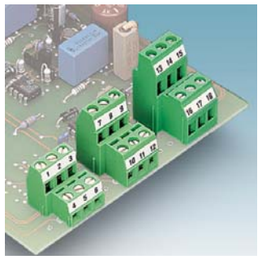
Multi-position and multi-level PCB terminal blocks with screw connection



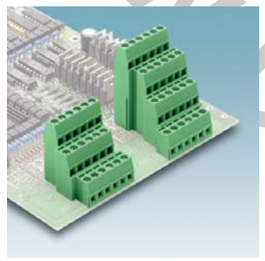
MKDSN 1,5; 1.5 mm2 Page 91
MKDS 1,5; 1.5 mm2 Page 95
MKDSN 2,5; 2.5 mm2 Page 103



SMKDSN 1,5; 1.5 mm2 Page 91
SMKDS 1,5; 1.5 mm2 Page 87
SMKDS 2,5; 2.5 mm2 Page 103

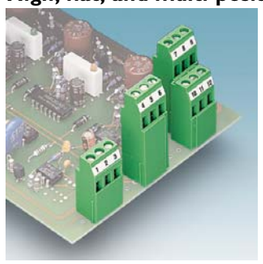


Double-level PCB terminal blocks
MKKDSN 1,5; 1.5 mm2 Page 93
MKKDS 1,5; 1.5 mm2 Page 97
MKKDS 3; 2.5 mm2 Page 109

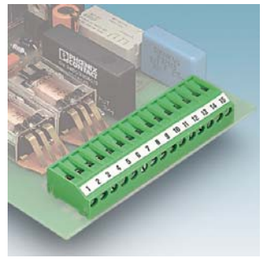


Multi-level PCB terminal blocks
MK3DS 1,5/...-5,08 Page 99
MK4DS 1,5/...-5,08 Page 101
MK3DS 3/...-5,08 Page 111

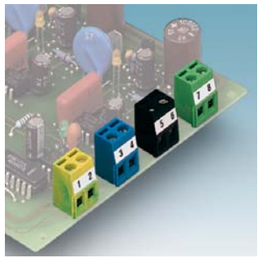
High, flat, and multi-position PCB terminal blocks with screw connection



High PCB terminal blocks with 5.0/5.08 mm pitch
MKKDSNH 1,5/...-5,08 Page 93
MK3DS 1,5/...-5,08-BC Page 99



Horizontal design with 3.5/5.0 mm pitch
MKDSFW 1,5/...-3,5 Page 87
MKDSFW 3/... Page 107

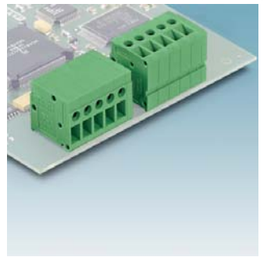


With internal bridging
MKDS 1,5-B; 1.5 mm2 Page 97
MKDS 3-B; 2.5 mm2 Page 105

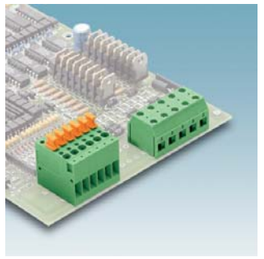


Orthogonal PCB terminal blocks
MKDSO 1,5/...3,5 Page 89
MKDSO 2,5/...-5,0 Page 113
MKDSO 2,5 HV/...-7,5 Page 125

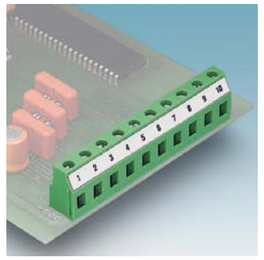
COMBICON control – Multi-position PCB terminal blocks with screw connection



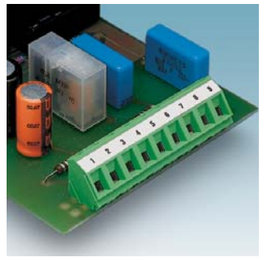
Horizontal and vertical PCB terminal blocks with front connection with 5.0 mm pitch, 2.5 mm² connection cross section
FRONT 2,5/... Page 114



KDS (2,5) Page 117
KDS 3-PMT Page 168
KDS 3-MT Page 117
KDS(P) 4 Page 127

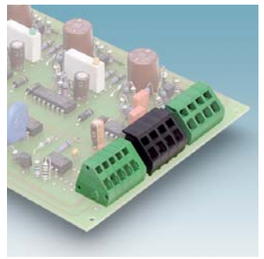


7.5/7.62 mm pitch
GMKDSN 1,5; 1.5 mm2 Page 119
GMKDS 1,5; 1.5 mm2 Page 121

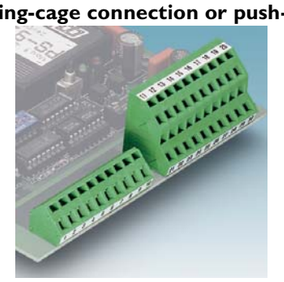


7.5/7.62 mm pitch
GSMKDSN 1,5; 1.5 mm2 Page 119
GSMKDSP 1,5; 1.5 mm2 Page 121
GSMKDS 3; 2.5 mm2 Page 123

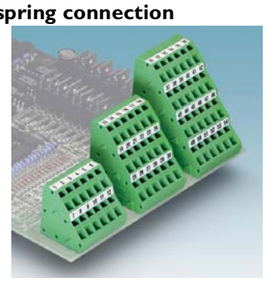
PCB terminal blocks with spring-cage connection or push-in spring connection



Angled PCB terminal blocks with spring-cage connection
ZFKDS 1-3,81 Page 129
ZFKDS 2,5-5,08 Page 135



Compact design, 5.0 mm pitch, 1.5 mm² connection cross section
ZFKDS 1,5C-5,0 Page 131

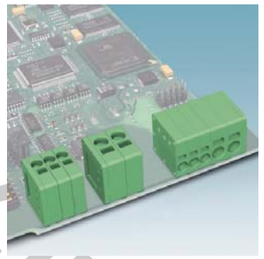


Two, three, and four-level PCB terminal blocks with 5.08 mm pitch, 2.5 mm² connection cross section Page 133

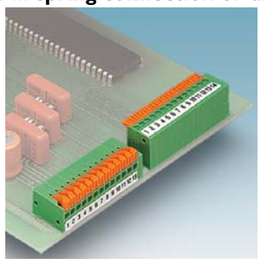


Angled PCB terminal blocks with push-in spring connection
SPTA 1/... Page 137
SPTA 1,5/... Page 139

PCB terminal blocks with push-in spring connection or displacement connection



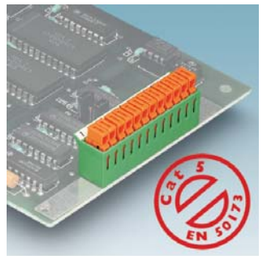
Horizontal and vertical push-in spring connection, 3.5/5.0 mm pitch
SPT 1,5/...-3,5 Page 141
SPT 2,5/...-5,0 Page 143



Horizontal and vertical push-in spring connection, 2.54/3.81/5.08/7.62 mm pitch
FFKDS(A)... Page 145

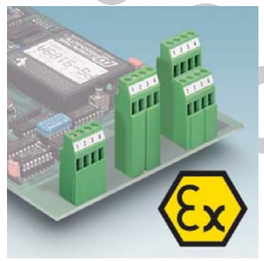


Orthogonal push-in spring connection
FKDSO... Page 153

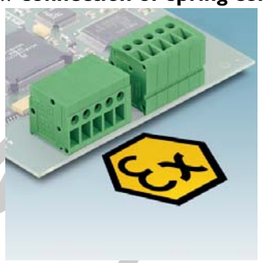


Displacement connection with 3.81 mm pitch, 0.5 mm² connection cross section
IDC 0,3/...-3,81 Page 154

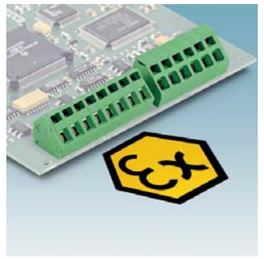
PCB terminal blocks with screw connection or spring connection for the Ex area



High PCB terminal blocks with 5.0/5.08 mm pitch
MKKDSH 3/...-EX Page 157
MK3DSH 3/...-5,08-EX Page 157
MK3DSMH 3/...-5,08-EX Page 157



Horizontal and vertical PCB terminal blocks with front connection with 5.0 mm pitch, 2.5 mm² connection cross section
FRONT 2,5/...-EX Page 158

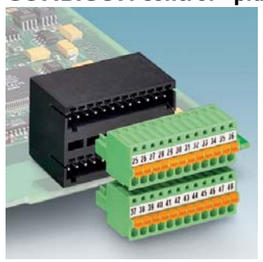


Spring-cage connection with 5.0/5.08 mm pitch
ZFKDS 1,5C-5,0-EX Page 161
ZFKDS 2,5-5,08-EX Page 161

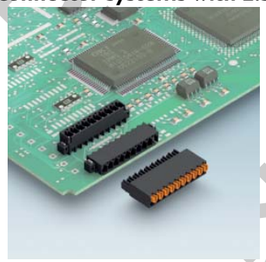


Horizontal and vertical push-in spring connection with 3.5/5.0 mm pitch
SPT 2,5/...-5,0-EX Page 163

COMBICON control - plug-in connector systems with 2.5/2.54/3.5/3.81 mm pitch



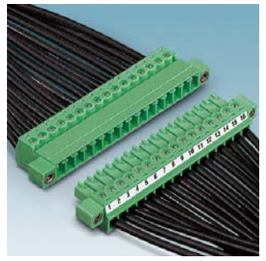
Plugs and headers, 2.5 mm pitch
FK-MC 0,5/...-ST-2,5 Page 168
MC(V) 0,5/...-G-2,5(THT) Page 172



Push-in plugs and headers for THR and SMD processes with 2.54 mm pitch
FMC 0,5; 0.5 mm² Page 174

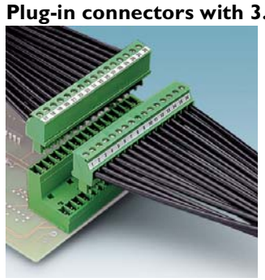


Double-row plug-in connector with push-in spring connection, 3.5 mm pitch
DFMC 1,5/...-ST(F)-3,5(-LR) Page 184

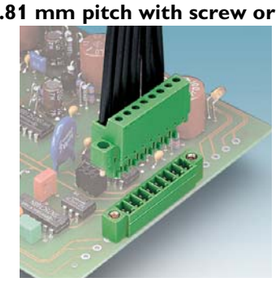


Inverted plugs with screw connection, 3.81 mm pitch
MC 1,5/...-ST(F)-... Page 190
IMC 1,5/...-ST(F)-3,81 Page 196

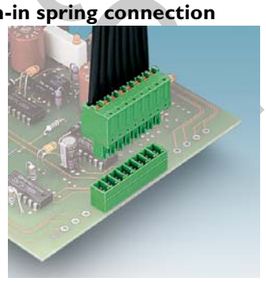
Plug-in connectors with 3.5/3.81 mm pitch with screw or push-in spring connection



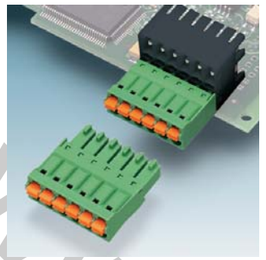
Plugs with 3.5/3.81 mm pitch, plug-in direction vertical to the conductor axis
MCVR(W) 1,5/...-ST(F)-... Page 192



Plugs with front connection, 3.81 mm pitch
FRONT-MC 1,5/...-ST(F)-... Page 194

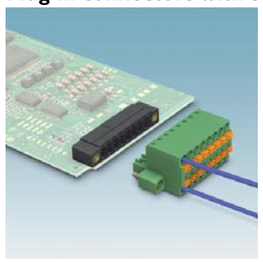


Plugs with push-in spring connection, 3.5/3.81 mm pitch
FK-MCP 1,5/...-ST(F)-... Page 198

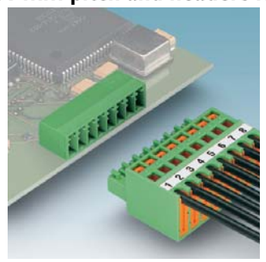


Plugs with push-in spring connection, 3.5/3.81 mm pitch, flat, compact design
FMC 1,5/...-ST(F)-... Page 200

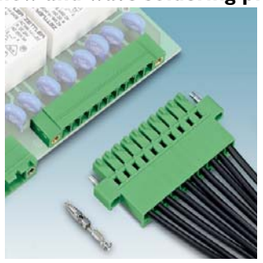
Plug-in connectors with 3.5/3.81 mm pitch and headers for reflow and wave soldering processes



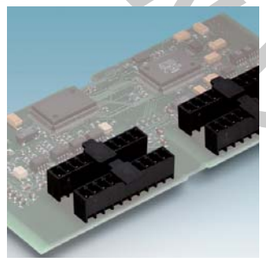
TWIN plugs with push-in spring-cage connection, 3.5/3.81 mm pitch, for potential distribution
TFMC 1,5/...-ST(F)-... Page 202



Plugs with IDC displacement connection, 3.81 mm pitch, connection cross section 0.5 mm²
QC 0,5/...-ST(F)-3,81 Page 204

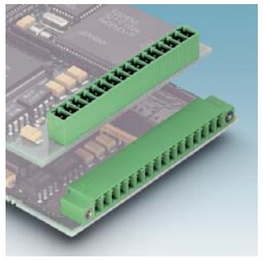


Plugs with crimp connection, 3.81 mm pitch, 1.0 mm² connection cross section
MCC 1/...-STZ(F)-3,81 Page 206

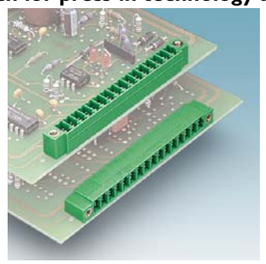


Reflow solderable headers, 3.5/3.81 mm pitch, horizontal and vertical plug-in direction
Page 208

Headers with 3.5/3.81 mm pitch for press-in technology and wave soldering processes



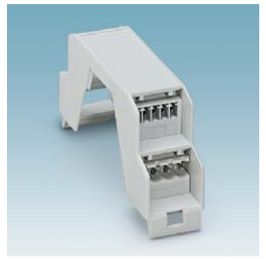
Headers for press-in technology, 3.5/3.81 mm pitch, horizontal and vertical plug-in direction
EMC(V) 1,5/...-G(F)-... Page 222



Headers for wave soldering process, 3.5/3.81 mm pitch, horizontal and vertical plug-in direction
MC(V) 1,5/...-G(F)-... Page 224

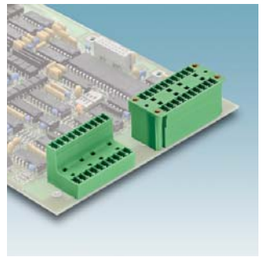


Headers with 3.81 mm pitch with orthogonal plug-in direction
MCO 1,5/...-G-3,81 Page 231

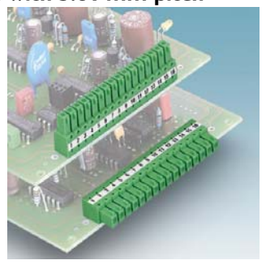


Headers with 3.5 mm pitch with orthogonal plug-in direction
MCO 1,5/...-G1...-3,5 Page 232

COMBICON control - headers with 3.81 mm pitch



Double-level headers, 3.81 mm pitch, horizontal and vertical plug-in direction
MCD(V) 1,5/...-G(F)-3,81 Page 234



Inverted headers, 3.81 mm pitch, horizontal and vertical plug-in direction
IMC(V) 1,5/...-G(F)-3,81 Page 238

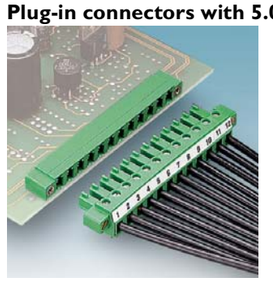


Feed-through headers, 3.81 mm pitch, with spade connection
DFK-MC 1,5/...-G(F)-3,81 Page 240

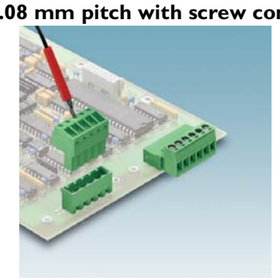


Cable housing for screw plugs, 2- to 16-pos., 3.81 mm pitch
KGG-MC 1,5/... Page 242
MCVR 1,5/...ST(F)... Page 192

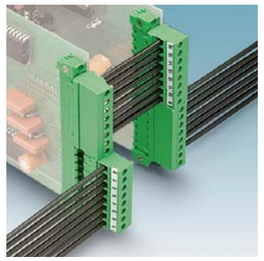
Plug-in connectors with 5.0/5.08 mm pitch with screw connection



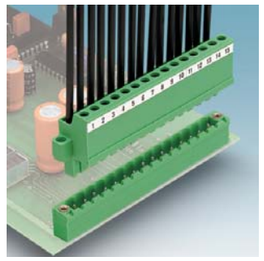
Plugs with screw connection and headers, 5.08 mm pitch
MC 1,5/...-ST(F)-5,08 Page 246



Plugs with screw connection, 5.0/5.08 mm pitch, with/without test connection
MSTB 2,5/....-ST(F)-... Page 262

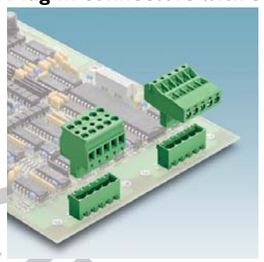


Plugs with screw connection, 5.0/5.08 mm pitch, plug-in direction 90° to the conductor axis
MVSTBR(W) 2,5/...-ST(F)-... Page 266



Plugs with front screw connection, 5.0/5.08 mm pitch
FRONT-MSTB 2,5/...-ST(F)-... Page 269

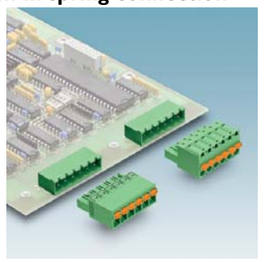
Plug-in connectors with 5.0/5.08 mm pitch with screw and push-in spring connection



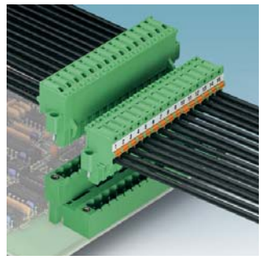
TWIN plugs, 5.08 mm pitch, for potential distribution
TMSTBP 2,5/...-ST(F)-5,08 Page 270



Inverted plug with screw connection, 5.08 mm pitch
IC 2,5/...-ST(F)-5,08 Page 272



Plugs with push-in spring connection, 5.0/5.08 mm pitch
FKC(T) 2,5/...-ST(F)-... Page 274



Plugs with push-in spring connection, 5.0/5.08 mm pitch, plug-in direction 90° to the conductor axis
FKCVR(W) 2,5/...-ST(F)-... Page 280

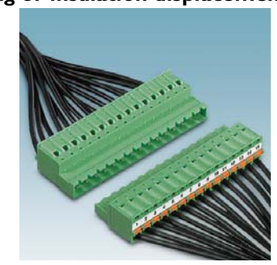
Plug-in connectors with 5.0/5.08 mm pitch with push-in spring or insulation displacement connection



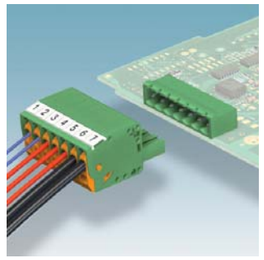
TWIN plugs with push-in spring connection, 5.0 mm pitch, for potential distribution
TVFKC 1,5/...-ST-5,0 Page 282



TWIN plugs with push-in spring connection, 5.08 mm pitch, for potential distribution
TFKC 2,5/...-ST-5,08 Page 284



Inverted plug with push-in spring connection, 5.0/5.08 mm pitch
FKIC 2,5/...-ST(F)-... Page 286

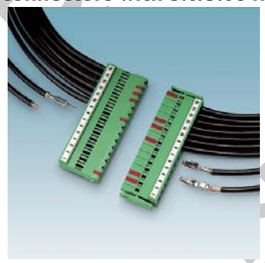


Plugs with IDC displacement connection, 5.0/5.8 mm pitch
QC 1,0/...-ST(F)-5,08 Page 290
QC 1,5/...-ST(F) Page 292

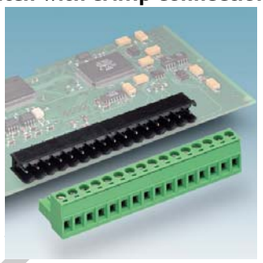
COMBICON control – plug-in connectors with 5.0/5.08 mm pitch with crimp connection and header



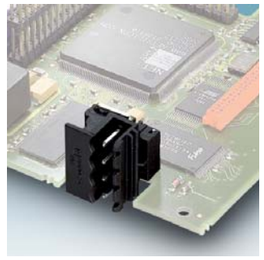
Plugs with crimp connection, 5.08 mm pitch
MSTBC 2,5/...-ST(Z)(F)-5,08 Page 294



Inverted plugs with crimp connection, 5.08 mm pitch
ICC 2,5/...-STZ(F)-5,08 Page 296

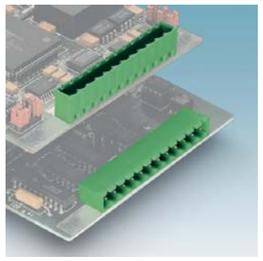


Reflow solderable headers, 5.0/5.08 mm pitch, horizontal and vertical plug-in direction
CCA(V) 2,5/...-G(F)-... THR Page 298

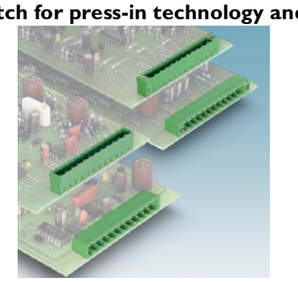


Reflow solderable headers, 5.0 mm pitch, with orthogonal plug-in direction
MSTBO 2,5/...-G1-5,0 THR Page 308

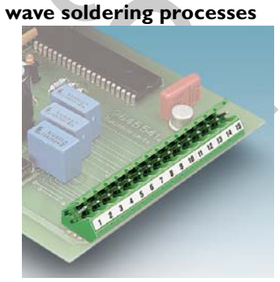
Headers with 5.0/5.08 mm pitch for press-in technology and wave soldering processes



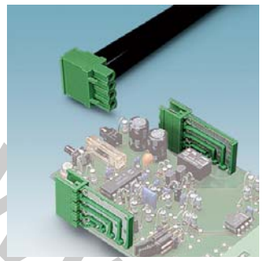
Headers for press-in technology, 5.0/5.08 mm pitch, horizontal and vertical plug-in direction
EMSTB(V) 2,5/...-G(F)-... Page 310



Headers for wave soldering processes, 5.0/5.08 mm pitch, horizontal and vertical plug-in direction
MSTB(V) 2,5/...-G(F)-... Page 312



Headers with 5.0/5.08 mm pitch, angled plug-in direction, with/without side panel
SMSTB(A) 2,5/...-G(F)-... Page 318

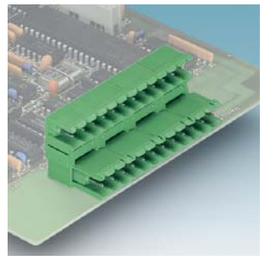


Headers with 5.08 mm pitch orthogonal plug-in direction
MSTBO 2,5/...-G-5,08 Page 320

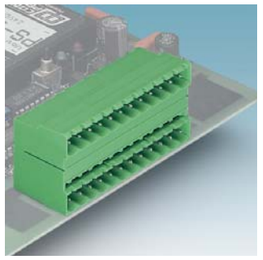
Headers with 5.0/5.08 mm pitch



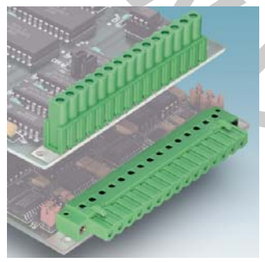
Headers with 5.0 mm pitch orthogonal plug-in direction, wave/reflow soldering processes
MSTBO 2,5/...-G1...-5,0 Page 322



Double-level headers, 5.0/5.08 mm pitch, horizontal and vertical plug-in direction, with level offset
MDSTB(V) 2,5/...-G(F)-... Page 326

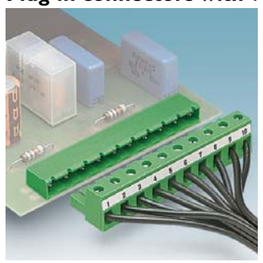


Double-level headers, 5.0/5.08 mm pitch, horizontal and vertical plug-in direction, without level offset
MDSTB(V) 2,5/...-G1(F)-... Page 329

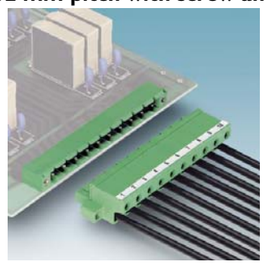


Inverted headers, 5.08 mm pitch, horizontal and vertical plug-in direction
IC(V) 2,5/...-G(F)-5,08 Page 332

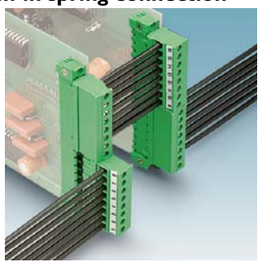
Plug-in connectors with 7.5/7.62 mm pitch with screw and push-in spring connection



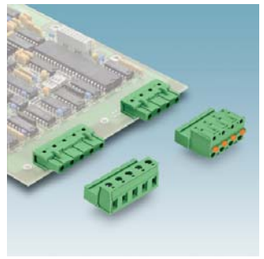
Plugs with screw connection, 7.5/7.62 mm pitch, plug-in direction parallel to the conductor axis
GMSTB 2,5/...-ST(F)-... Page 334



Plugs with front screw connection, 7.5/7.62 mm pitch
FRONT-GMSTB 2,5/...-ST(F)-... Page 335

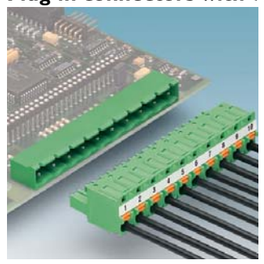


Plugs with screw connection, 7.5/7.62 mm pitch, plug-in direction 90° to the conductor axis
GMVSTBR(W) 2,5/...-ST(F)-... Page 336

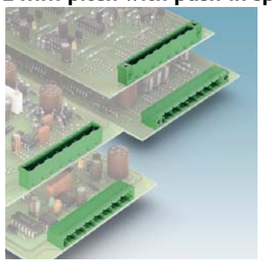


Inverted plug with screw and spring connection, 7.62 mm pitch
GIC 2,5/...-ST(GF)-7,62 Page 338
GFKIC 2,5/...-ST-7,62 Page 341

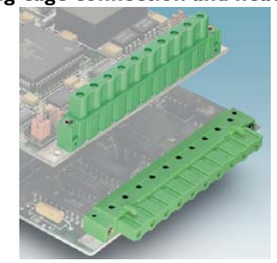
Plug-in connectors with 7.5/7.62 mm pitch with push-in spring-cage connection and headers with 7.5/7.62 mm pitch



Plugs with push-in spring connection, 7.5/7.62 mm pitch, plug-in direction parallel to the conductor axis
GFKC 2,5/...-ST(F)-... Page 340



Headers with 7.5/7.62 mm pitch, horizontal and vertical plug-in direction
GMSTB(V) 2,5/...-G(F)-... Page 342

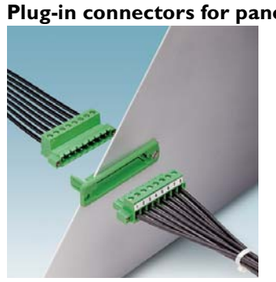


Inverted headers with 7.5/7.62 mm pitch, horizontal and vertical plug-in direction
GIC(V) 2,5...-G(F)-... Page 346

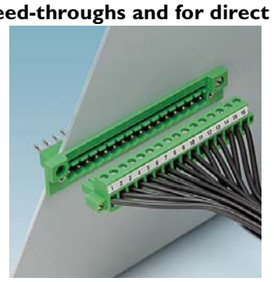


Cable housing for plugs with screw connection, 2- to 24-pos., 5.0/5.08/7.5/7.62 mm pitch Page 348

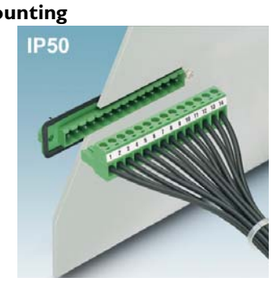
Plug-in connectors for panel feed-throughs and for direct mounting



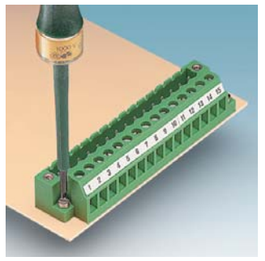
Feed-through assembly frames for inverted plug-in connectors, 5.08 mm pitch, with/without threaded flange
IC-DFR ?. Page 350



Headers for panel feed-through, 5,0/5.08 mm pitch, with spade connection
DFK-MSTB 2,5/...-G(F)-... Page 352

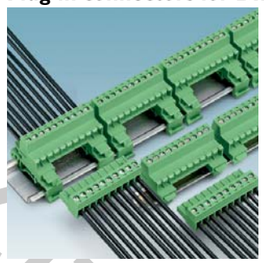


Headers for panel feed-through, 5.08 mm pitch, with spade connection
DFK-MSTB(A) 2,5/...-G(F)-... Page 354

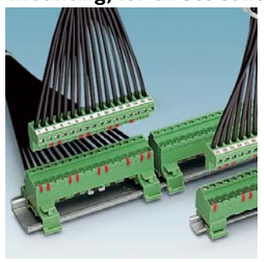


Plugs/headers with screw connection and screw flange for direct mounting
MSTBU 2,5/... Page 356

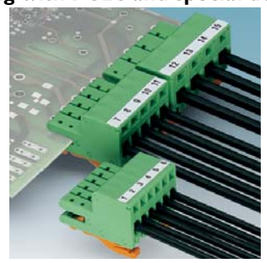
Plug-in connectors for DIN rail mounting, for direct contacting with PCBs and special designs



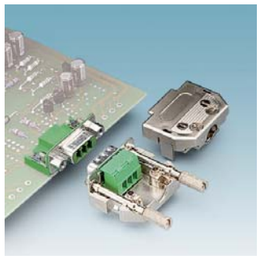
Inverted plugs for mounting on DIN rails, 5.0/5.08 mm pitch Page 358



Plugs and headers for mounting on DIN rails, 5.08 mm pitch Page 360

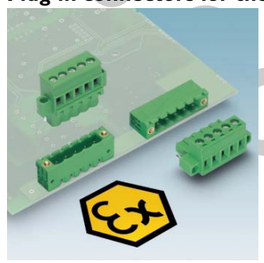


Direct plug-in connectors with spring-cage connection
ZEC 1,0/...-ST-3,5 Page 365
ZEC 1,5/...-ST-5,0 Page 365

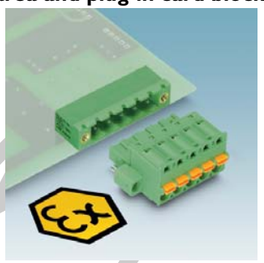


Plugs with screw connection, for D-SUB panel feed-throughs and headers
PSC 1,5/... Page 251

Plug-in connectors for the Ex area and plug-in card blocks



Plugs with screw connection and headers for the Ex area Page 368



Plugs with push-in spring connection for the Ex area, 5.08/7,62 mm pitch
FKC 2,5/...STF5,08 EX Page 371
GFKC 2,5/ 2-STF-7,62 EX Page 381



Plug-in card blocks for European-format cards with indirect connection Page 776



Socket strips with screw and spring-cage connection Page 788

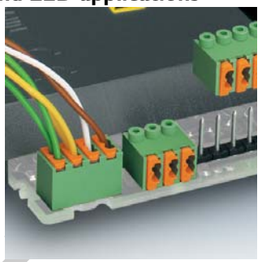
COMBICON compact - connection technology for buildings and LED applications



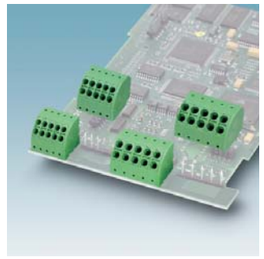
Miniature PCB terminal blocks and plugs
PTSM 0,5...THR Page 391
PTSM 0,5...SMD Page 53



Plug-in connectors for flexible PCBs
PTF 0,3... Page 401
PTPM Page 55

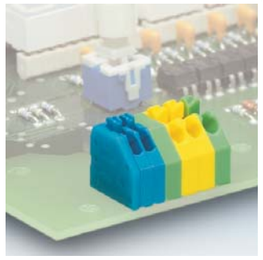


PCB terminal blocks and plugs with spring-cage double connection up to 2 x 0.5 mm²
FK-MPT 0,5-3,5 series Page 403

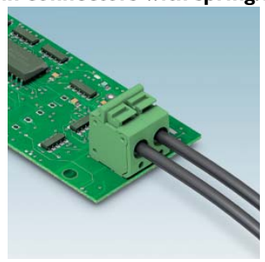


Angled pin strip plugs with spring-cage connection of 2 x 1.5 mm² and 2 x 2.5 mm²
PTDA series Page 407

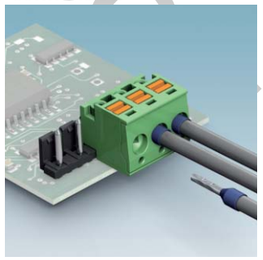
PCB terminal blocks and plug-in connectors with spring/screw connection



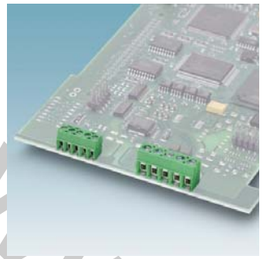
Angled PCB terminal block with spring-cage connection, 1.5 mm²
PTSA series Page 413



PCB terminal block with horizontal spring-cage connection
PTS series Page 415

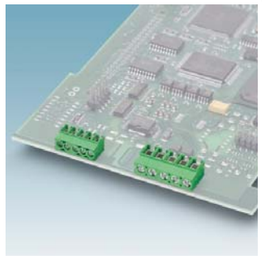


Pin-strip plugs with spring connection
PTS 1,5/...-PH-5,0 Page 417

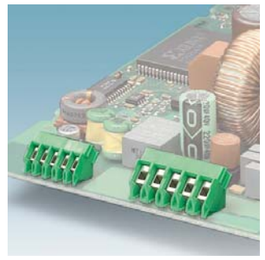


PCB terminal blocks with horizontal screw connection and conductor protection, 1.5 or 2.5 mm²
PT 1,5 series Page 419

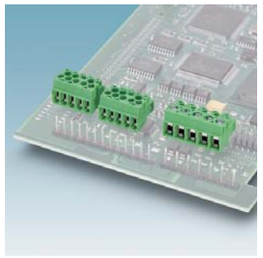
PCB terminal blocks and plug-in connectors with screw connection



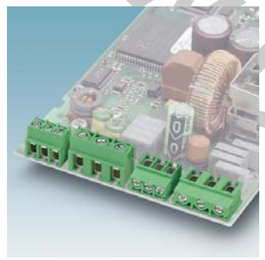
PCB terminal blocks with vertical screw connection and conductor protection, 3.5 mm pitch
PT 1,5 series Page 419



PCB terminal blocks with angled screw connection and conductor protection, 5.0 mm pitch
PTA 1,5 series Page 419

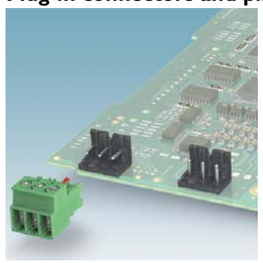


Pin strip plugs with screw connection and conductor protection clips, 1.5 or 2.5 mm²
PT 1,5/-PVH/PH series Page 423

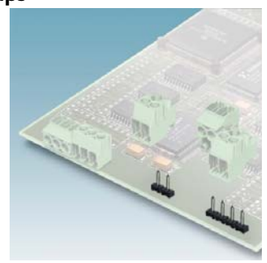


PCB terminal blocks with screw connection and conductor protection clips, 4 mm²
PT 2,5 series Page 427

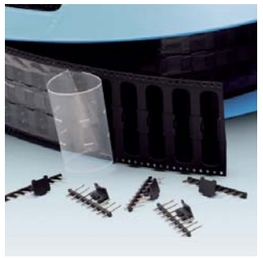
Plug-in connectors and pin strips



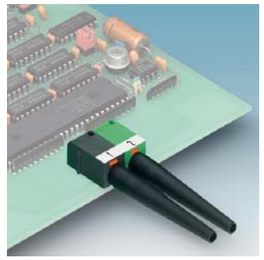
Multi-plug-in system with screw connection and base strips, up to 4 mm²
PT 2,5/...-PVH series Page 431



Vertical and horizontal pin strips for COMBICON compact plugs, reflow solderable
PST family Page 432

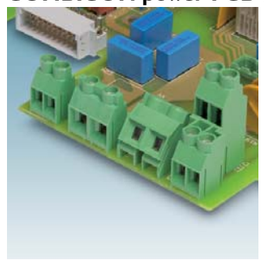


Reflow solderable pin strips in machine-capable tape-on-reel packing
PST tape-on-reel packing Page 433

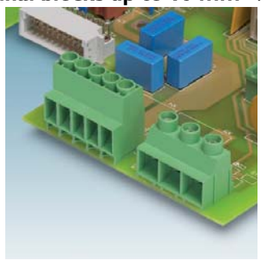


FO fast connection PCB terminal blocks for polymer fibers
FOPT 2,2-T/R Page 436

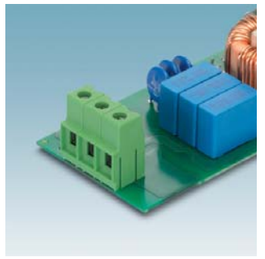
COMBICON power PCB terminal blocks up to 16 mm² with screw connection



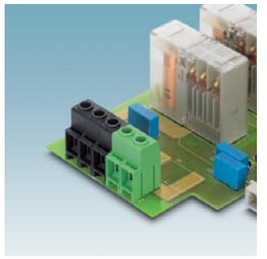
MKDS 5 series: screw connection, up to 32 A, 6.35/7.62/9.52 mm pitch
MKDS 5.. Page 443



MKDS 5 HV series: screw connection, up to 41 A, 6.35 mm/9.52 mm pitch for 600 V UL
MKDS 5 HV... Page 445

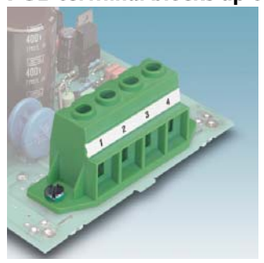


MKDSP 10 series: screw connection, up to 76 A, 10.16/12.7 mm pitch with test connection
MKDSP 10... Page 451

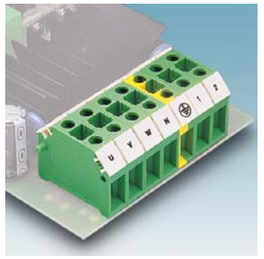


MKDS 10 HV series: screw connection, up to 76 A, 10.16 mm pitch for 600 V UL
MKDS 10... Page 451

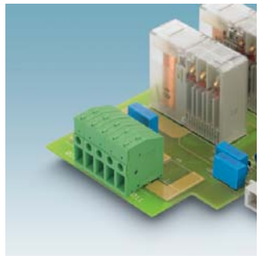
PCB terminal blocks up to 35 mm² with screw connection



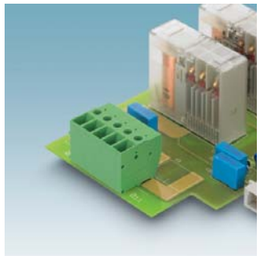
MKDSP 25 series: screw connection, up to 125 A, 15 mm pitch
MKDSP 25... Page 455



KDS 10 series: feed-through terminal block with screw connection, up to 76 A, 10 mm pitch
KDS 10/... Page 457

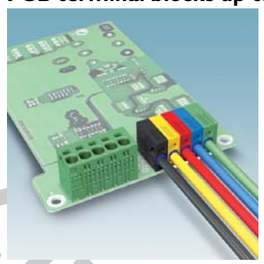


FRONT 4 series: front screw connection, up to 32 A, connection: horizontal, 6.35/7.62 mm pitch
FRONT 4 H... Page 459

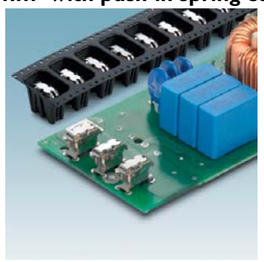


FRONT 4 series: front screw connection, up to 32 A, connection: vertical, 6.35/7.62 mm pitch
FRONT 4 V... Page 459

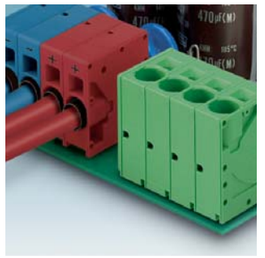
PCB terminal blocks up to 16 mm² with push-in spring connection



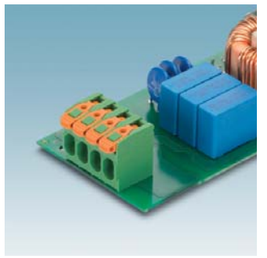
SPT 5 series: push-in spring connection, up to 41 A, connection: vertical and horizontal, 7.5 mm pitch
SPT 5... Page 463



PTSPL 6 series: push-lock spring connection, up to 41 A, without insulating body
PTSPL 6... Page 475

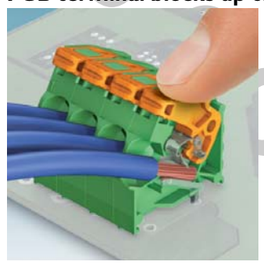


SPT 16 series: push-in spring connection, 10 mm pitch, up to 76 A, connection: vertical and horizontal
SPT 16... Page 467

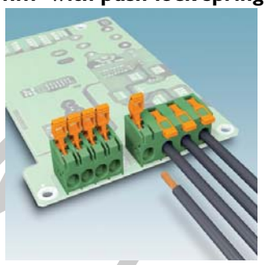


PLH-5 series: push-lock spring connection, Pitch 7.5 mm, up to 41 A connection: horizontal
PLH 5... Page 470

PCB terminal blocks up to 16 mm² with push-lock spring connection and spring-cage connection



PLH 5 series: push-lock spring connection, 7.5 mm pitch, up to 41 A, connection: 30° to PCB
PLH/A 5... Page 470



PLH 16 series: push-lock spring connection, 10/15 mm pitch, up to 76 A, connection: horizontal
PLH 16... Page 473

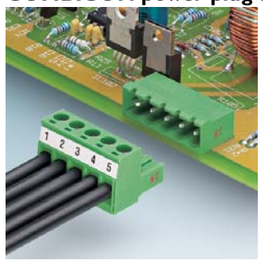


ZFKDS 4 series: spring-cage connection, up to 32 A, 7.5/10 mm pitch
ZFKDS 4... Page 477

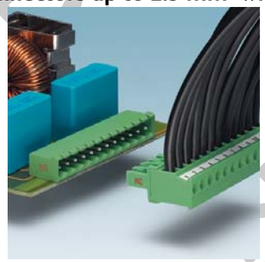


ZFKDS 10 series: spring-cage connection, up to 76 A, 10/15 mm pitch
ZFKDS 10... Page 479

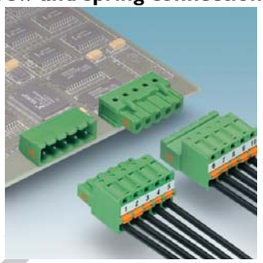
COMBICON power plug-in connectors up to 2.5 mm² with screw and spring connection



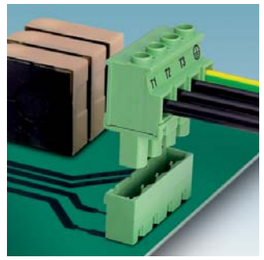
HC series: screw connection, up to 16 A, 5/5.08 mm pitch
MSTB 2,5 HC... Page 490



HC series: screw connection, vertical connection direction, up to 16 A, 5/5.08 mm pitch
MVSTBR(W) 2,5 HC.... Page 492

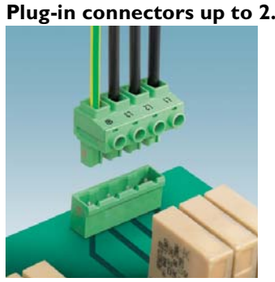


HC series: spring connection, up to 16 A, 5/5.08 mm pitch
FKC 2,5 HC.. Page 494

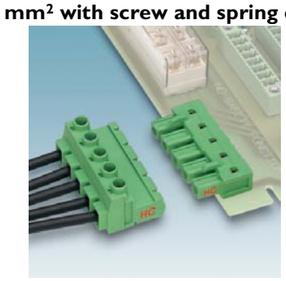


HV series: vertical connection direction, screw connection, up to 16 A, 7.62 mm pitch, 600 V UL
GMVSTBR/W 2,5 HV... Page 500

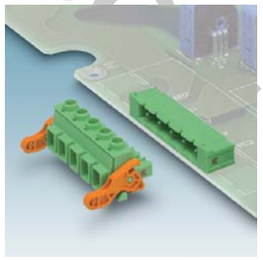
Plug-in connectors up to 2.5 mm² with screw and spring connection



HC series: screw connection, up to 16 A, 7.62 mm pitch, 600 V UL
GMSTB 2,5 HCV... Page 502



HC series: screw connection, up to 16 A, 7.62 mm pitch, 600 V UL
GIC 2,5 HCV... Page 503

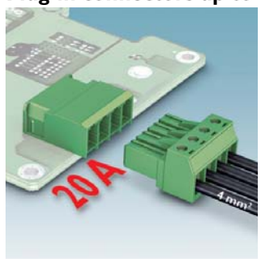


HC series: screw connection, up to 16 A, 7.62 mm pitch, 600 V UL
GMSTB 2,5 HCV L&R... Page 503

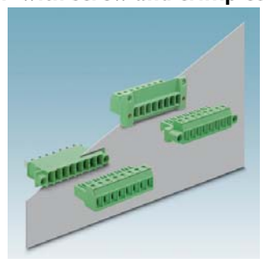


HC series: screw connection, up to 16 A, housing terminal, 600 V UL
GMSTBT 2,5 HV... Page 508

Plug-in connectors up to 4 mm² with screw and crimp connection



PC 4 series: plugs/headers, screw connection, up to 20 A, 7.62 mm pitch
PC 4 ... Page 512



PC 4 series: feed-through plug screw or solder connection, up to 20 A, 7.62 mm pitch
DFK-PC 4... Page 518

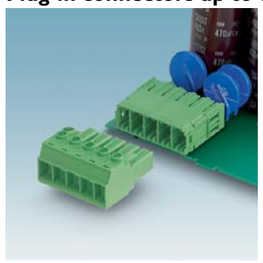


PC 4 series: plugs, crimp connection, up to 20 A
PCC 4... Page 514

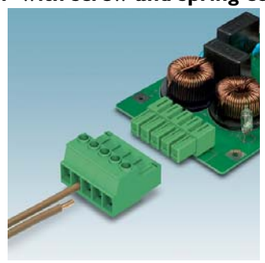


PC 4 series: cable housing for PC 4 plugs
KGG-PC 4/KGS-PC 4... Page 522

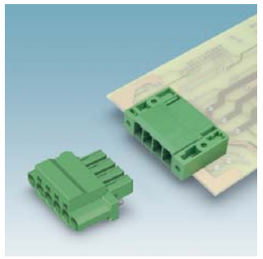
Plug-in connectors up to 6 mm² with screw and spring connection



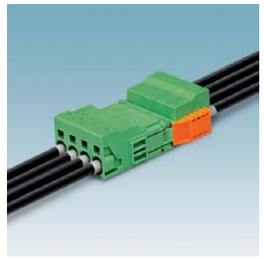
PC 5 series: plugs/headers, screw connection, up to 41 A, 7.62 mm pitch, also Click & Lock
PC 5 Page 524



PC 5 series: inverted plugs/headers screw connection, up to 41 A, 7.62 mm pitch
IPC 5/... Page 526

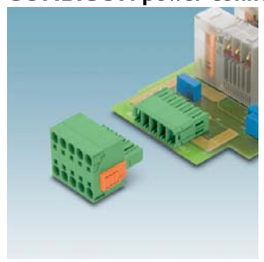


PC 5 series: plugs/headers, spring connection, up to 41 A, 7.62 mm pitch
SPC 5/... Page 530

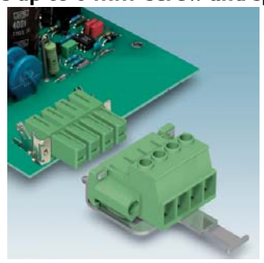


PC 5 series: inverted plugs/headers, spring connection, up to 41 A, 7.62 mm pitch
ISPC 5/... Page 544

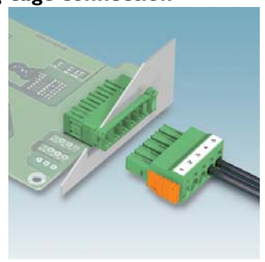
COMBICON power connectors up to 6 mm² screw and spring-cage connection



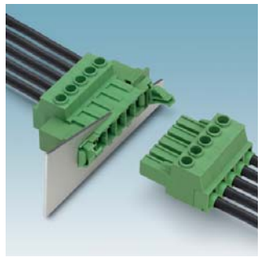
PC 5 series: plugs with double spring connection, up to 41 A, 7.62 mm pitch
TSPC 5... Page 532



PC 5 series: plugs/headers with EMC shield connection, up to 41 A
PC 5...SH... Page 525



PC 5 series: feed-through headers, solder connection, up to 41 A
DFK-PC 5... Page 544

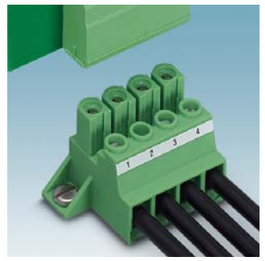


PC 5 series: feed-through headers, screw connection, up to 41 A
DFK-PC 5 Page 544

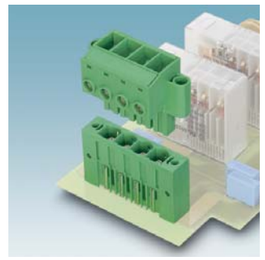
Plugs up to 16 mm² screw connection



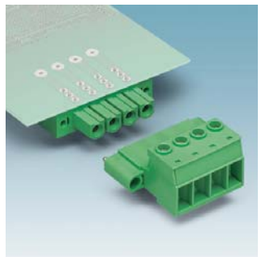
PC 6 series: plugs/headers screw connection, up to 41 A, 10.16 mm pitch
PC 6/... Page 550



PC 6 series: plugs for direct mounting, screw connection, up to 41 A, 10.16 mm pitch
PCU 6/... Page 552

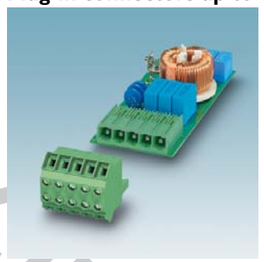


PC 16 series: plugs/headers screw connection, up to 76 A, 10.16 mm pitch
PC 16/... Page 554

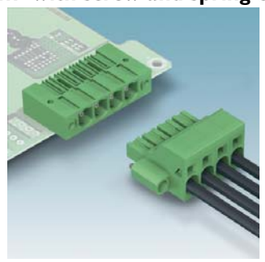


PC 16 series: inverted plugs/headers screw connection, up to 76 A, 10.16 mm pitch
IPC 16/... Page 558

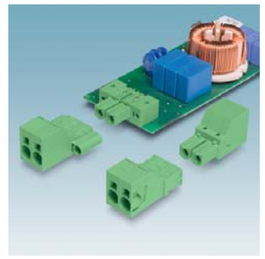
Plug-in connectors up to 16 mm² with screw and spring connection



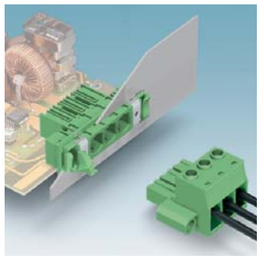
PC 16 series: plugs with double screw connection, up to 76 A, 10.16 mm pitch
TPC 16... Page 556



PC 16 series: plugs/headers with spring connection, up to 76 A, 10.16 mm pitch
SPC 16... Page 562

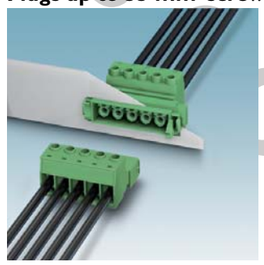


PC 16 series: inverted plugs/headers with spring connection, up to 76 A, 10.16 mm pitch
ISPC 16... Page 564

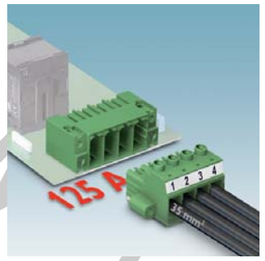


PC 16 series: feed-through headers, solder and screw connection, up to 76 A, 10.16 mm pitch
DFK-PC 16... Page 574

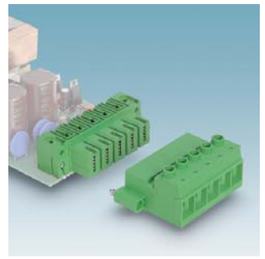
Plugs up to 35 mm² screw connection



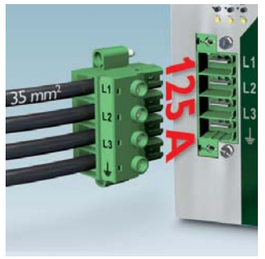
PC 16 series: inverted feed-through headers, solder and screw connection, up to 76 A, 10.16 mm pitch
DFK-IPC 16... Page 578



PC 35 series: plugs/headers screw connection, up to 125 A
PC 35... Page 586

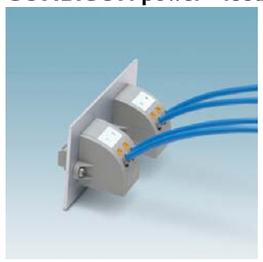


PC 35 series: inverted plugs/headers screw connection, up to 125 A
IPC 35... Page 588



PC 35 series: feed-through headers, solder connection, up to 125 A
DFK-PC 35... Page 593

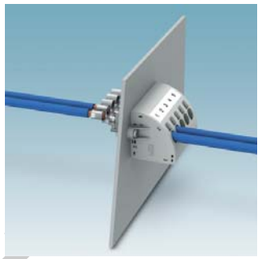
COMBICON power - feed-through terminal blocks up to 16 mm² with fast connection technology



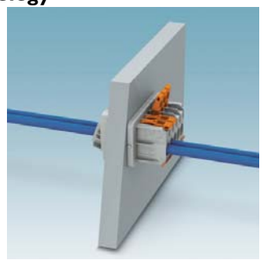
PW 4-POT series: push-in connection, up to 32 A with orange latch
PW 4-POT... Page 601



PWO 4-POT series: push-in connection, up to 32 A, without orange latch
PWO 4-POT... Page 603



PWO 16-POT series: push-in connection, up to 76 A, without orange latch
PWO 16-POT... Page 604

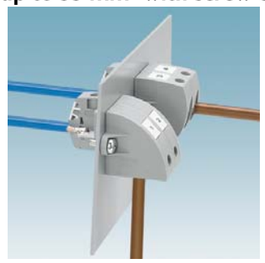


PLW 16 series: push-lock spring connection, up to 76 A outsider lever, inside push-in spring
PLW 16... Page 605

Feed-through terminal blocks up to 35 mm² with screw connection



UW 4 series: screw connection, up to 41 A, connection: vertical and horizontal
UW 4... Page 607



UW 10 series: screw connection, up to 76 A, connection: vertical and horizontal
UW 10... Page 610

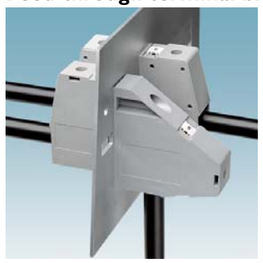


UW 16 series: screw connection, up to 101 A, connection: vertical and horizontal
UW 16... Page 612

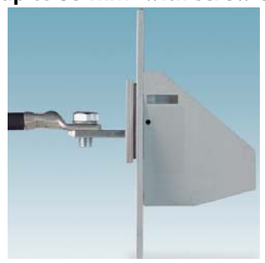


UW 25 series: screw connection, up to 125 A, connection: vertical and horizontal
UW 25... Page 614

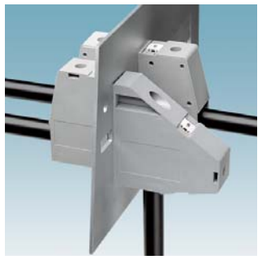
Feed-through terminal blocks up to 95 mm² with screw connection



HDFK 50 series: screw connection, up to 150 A, connection: vertical and horizontal
HDFK 50... Page 617



HDFK 50-VP/HDFK 95-VP series: screw connection, up to 232 A, molded terminal blocks
HDFK 50...VP... Page 619

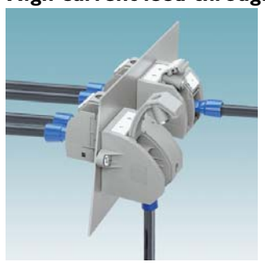


HDFK 95 series: screw connection, up to 232 A, connection: vertical and horizontal
HDFK 95... Page 619

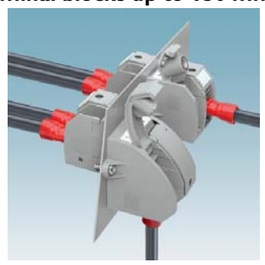


HDFK..TWIN series: screw connection, up to 125 A, two conductors - one potential
HDFK...TWIN Page 623

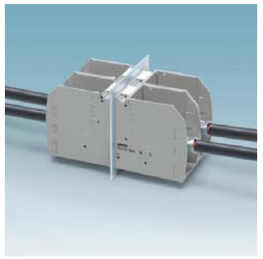
High-current feed-through terminal blocks up to 150 mm² with bolt connection



RW 5 series: bolt connection, up to 76 A, connection: vertical and horizontal
RW 5... Page 624



RW 8 series: bolt connection, up to 125 A, connection: vertical and horizontal
RW 8... Page 626



RWO 10 series: bolt connection, up to 150 A, terminal open
RWO 10... Page 636



RWO 10-TC series: bolt connection, up to 150 A, terminal transparent cover
RWO 10-TC... Page 637

Housing



Customer-specific housing solutions including connection technology Page 648



ME... component housings,
Space-saving design with many additional functions Page 652

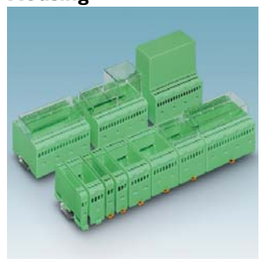


ME MAX... component housings
Large PCB surface yet compact dimensions Page 678



BC... installation component housings,
Housings for installation distributors according to DIN 43880 Page 694

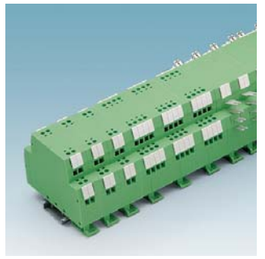
Housing



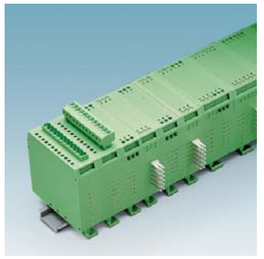
EMG.... component housings
DIN rail-mountable housings in fine type scaling Page 708



EG... component housings
Receptacle housings for multiple PCB arrangements Page 718

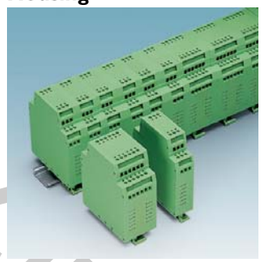


UEG... component housings
Shell housing with variable connection methods Page 722



UEGM... component housings
Shell housing with variable connection methods Page 724

Housing



UEGH... component housings
Shell housings with two levels and variable connection technologies Page 726



ME PLC... component housings
Multifunctional housings for intelligent electronics Page 732



CM... component housings
Rugged housing range for rail-mountable power electronics Page 736



EFG 45 component housings
Half-shell housing with front plates for complex electronics Page 738

Housing



UM-ALU... panel mounting bases
Rugged profile housings for the control cabinet Page 742



UM-PRO... panel mounting bases
Profile housings for flexible electronics development Page 748



UM... panel mounting bases
Profile housings for individual PCB dimensions Page 754



HC-ALU...
Dust-tight and watertight handheld housings Page 766

Connection of your choice

Whether you choose screw, spring or insulation displacement connection technology, Phoenix Contact always provides the highest level of quality.

You can choose the worldwide standard: the versatile screw connection. This connection method combines a large contact surface with high contact force and is a completely maintenance-free, easy, and gentle conductor connection.

Alternatively, you can also choose modern spring connection technology. Whether spring-cage or leg spring, both concepts ensure a high level of clamping reliability. In particular, leg spring systems with their short wiring times enable quick and easy connection without additional tools based on the push-in principle.

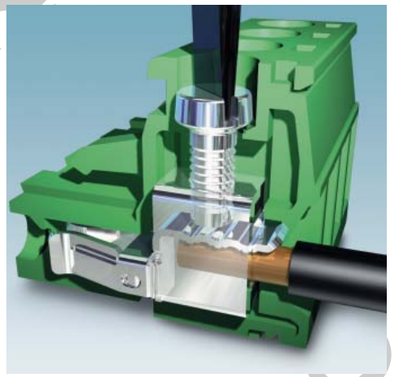
Looking for even faster wiring? Then choose the insulation displacement connection (IDC) method. The sophisticated insulation displacement or pierce connection technology ensures optimum and durable contacting.

Irrespective of whether you require a connection for signal, data or power cables, the COMBICON range offers the right terminal block for every application.

Furthermore, Phoenix Contact clamping parts are designed so that all Class 5 copper conductor types can be clamped without pretreatment.

The following pages provide an overview of the existing connection technologies and their advantages.

Screw connection with tension sleeve



Screw connection with tension sleeve technology is the most widely used connection method. Maximum contact force per contact surface can be achieved irrespective of the conductor cross section. Long-term stable connections can be achieved using special high-grade copper alloys, even under difficult conditions (e.g., in aggressive atmospheres). This ensures a gas-tight contact point and permanently low contact resistance. The integrated screw locking system (Reakdyn principle) prevents the loosening of the connection.

Customer benefits:
– The flat clamping part base ensures that even the thinnest connecting conductors are safely clamped (zero clamping).
– Transverse grooves in the current bar ensure that oxide film on the conductor is broken, and they provide a wrench-proof connection, which ensures good contact conditions.

Areas of application:
– Applications that require high contact reliability in industrial environments

Push-in connection



The leg spring enables quick, tool-free connection of conductors. The solid conductor or a fine-strand conductor with ferrule is simply inserted into the push-in terminal point and pressed against the current bar by the leg spring.

It is only when fine-strand conductors without ferrules are connected and when this connection is released that it is necessary to actuate the opening lever, which is a feature of these terminal blocks.

Customer benefits:
– Fast connection by means of direct plug-in technology - “push-in”
– Easy operation thanks to color-coded actuating lever
– No tools required
– Compact design

Areas of application:
– Fast wiring in the field where intuitive operation is an advantage

Device connection technology for signals, data, and power from Phoenix Contact
Connection versatility with Phoenix Contact

Spring-cage connection

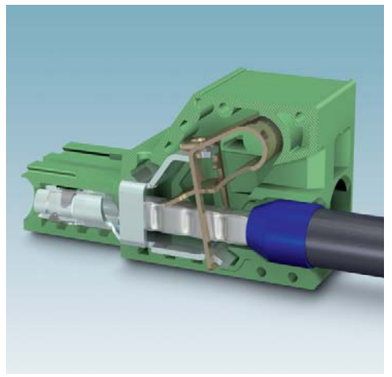


Spring-cage technology enables easy connection without the need for special tools and conductor pretreatment. This spring is opened via the actuation shaft using a screwdriver and the conductor is inserted into the spring-cage via the separate conductor shaft. When the tool is removed, the spring then pulls the conductor against the power rail. This connection can be released in the same way.

Customer benefits:
– No conductor pretreatment required
– High level of contact reliability for industrial applications
– Universally used connection technology
– Time savings compared to screw connection

Areas of application:
– Fast connection technology for electronic devices

Push-in spring connection



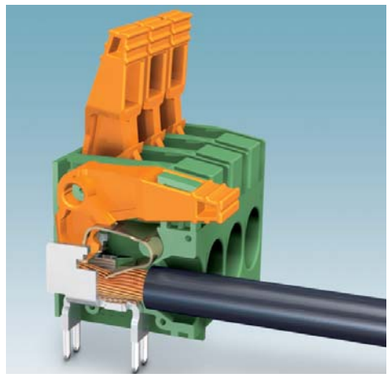
The push-in spring combines the advantages of the leg spring with those of spring-cage technology, thereby enabling conductor connection without additional tools by means of direct plug-in technology. In addition, the fixed, predefined cage of the combined springs prevents the conductor from slipping sideways.

Therefore, the push-in spring enables, in particular, the tool-free connection of large conductor cross sections with moderate force.

Customer benefits:
– Fast connection by means of tool-free direct plug-in technology - “push-in”
– User-friendly thanks to the protection against operating errors
– Large conductor cross sections can be connected with moderate force

Areas of application:
– Compact device connection of large conductor cross sections for fast wiring in the field.

Push-lock spring connection



The push-lock spring enables easy and tool-free conductor connection with or without ferrules by means of the “one-hand tilting lever principle”.

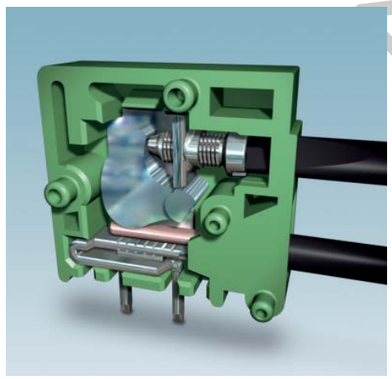
Simply insert the solid or stranded conductor in the open terminal point and connect it reliably by actuating the tilting lever via the push-lock spring. Alternatively, conductors can also be inserted directly when the lever is closed by means of the push-in method.

Customer benefits:
– Quick and easy connection by means of the “one-hand tilting lever principle” or direct plug-in technology - “push-in”
– No conductor pretreatment required
– Intuitive operation thanks to color-coded actuating lever
– Tool-free

Areas of application:
– Fast, easy-maintenance connection technology for the internal wiring of electronic devices and in the field.

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Front screw connection



COMBICON front screw connection with pressure clip technology is a space-saving connection system from Phoenix Contact.

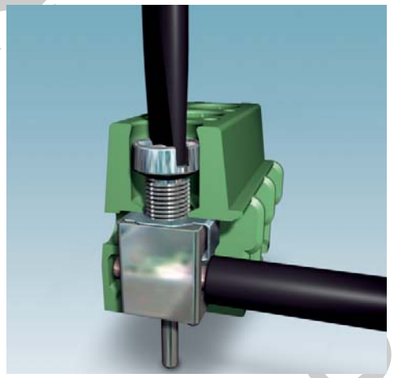
In the case of the COMBICON front connection, cable routing and actuation of the terminal block screw are on the same level.

Reliable clamping of the conductor is ensured by the force-increasing swiveling movement of the angled pressure plate, which is supported in the robust clamping part pocket such that it can swing freely and presses the conductor against the power rail.

Customer benefits:
– Cable routing and actuation of the terminal block screw are on the same level
– Flush cover for installation on the front of devices

Areas of application:
– Particularly suitable for PCB racks and narrow device fronts

Screw connection with wire protector



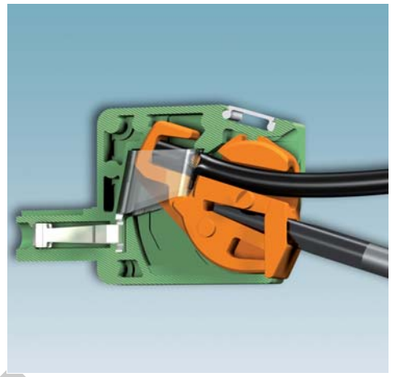
COMBICON compact with wire protector technology is the PCB terminal block and plug-in connector range from Phoenix Contact for semi-industrial applications. Therefore, the same quality requirements are placed on the COMBICON compact product range as those for the industrial COMBICON product range.

However, the PCB connection technology of COMBICON compact has been greatly simplified in some areas and adapted to the conditions of building automation.

Customer benefits:
– Highly flexible wire protector
– Large rectangular clamping spaces
– Suitable for terminal connections up to a conductor cross section of 4 mm²

Areas of application:
Building automation, safety technology, telecommunications, etc.

Insulation displacement connection (IDC)



Reliable contacting using IDC (insulation displacement connection) connection technology is achieved by inserting the conductor into the specially designed cutting metal.

This method centers the conductor and cuts open the insulation in the cutting zone, thereby creating a reliable connection between the conductor and cutting metal. This connection technology is suitable for cables with PVC and PE insulation.

Eliminating cable preparation, such as stripping and the fitting of splicing protection, results in significant time savings of up to 60% compared to conventional connection technologies.

Customer benefits:
– Particularly time-saving connection technology
– Stripping and the fitting of splicing protection is not required
– No special tools required

Areas of application:
– Installation applications where a variety of conductors with similar cross sections must be connected in a short amount of time.
– Field installation, since only minimal tools are needed for connection and conductor pretreatment is not required.

Device connection technology for signals, data, and power from Phoenix Contact
Connection versatility with Phoenix Contact

Crimp connection



The crimp connection method enables fast, cost-effective connection for cables that have to be assembled in large volumes.

The wire/crimp contact connection is established using crimping pliers or a crimping machine.

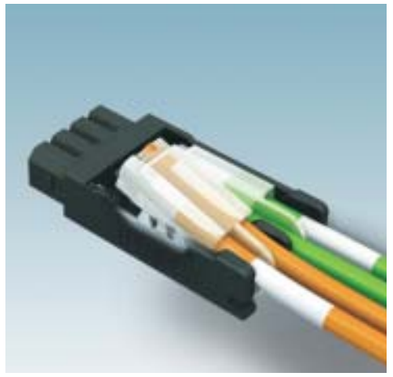
Taped crimp contacts are available for fully automated processing.

The crimp plugs in the various plug-in connector series can be used in combination with virtually all headers.

Customer benefits:
– Variable production run startup thanks to fully or semi-automatic machine
– High tensile strength for the connection
– Low contact resistance
– Easy production monitoring
– High resistance to ambient conditions, vibration, and shock

Areas of application:
– Crimp connections are the ideal connection system for harsh ambient conditions, such as extreme temperature change, vibration and shock, and aggressive atmospheres.

Pierce connection

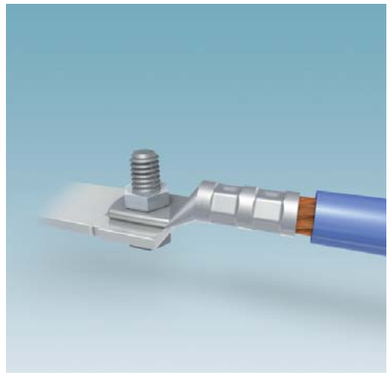


Pierce connection is a reliable connection technology that does not require conductor pretreatment. Contact is made by inserting the conductors in the corresponding guide in the transparent cover of the plug-in connector. When the cover is closed, the pierce contacts pierce through the conductor insulation and so ensure a durable conductor connection.

Customer benefits:
– Time-saving connection technology
– Stripping and the fitting of ferrules is not required
– No special tools required
– Conductors can be easily released by opening the cover

Areas of application:
– Easy field installation, since conductor pretreatment and special tools are not required.

Bolt connection



Bolt connection technology has been developed with a robust design and for the convenient wiring of ring cable lugs.

The ring cable lug is simply placed on the bolt and secured in place with the nut. The captive nut is connected to a hinged cover flap. This means that ring cable lugs can be connected quickly and easily.

The integrated screw locking in the form of a spring retainer guarantees safe use, even in applications which are subject to shock and vibration.

Customer benefits:
– Quick and easy ring cable lug wiring
– Conductors up to 150 mm² can be wired securely and with long-term stability
– Easy multi-conductor connection, up to four cable lugs can be connected per bolt

Areas of application:
– Applications which require ring cable lugs to be connected quickly and easily

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Corrosion-resistant metal parts

We believe that high-quality terminal blocks must be designed to enable the consistent use of corrosion-resistant materials and surface systems. Naturally, Phoenix Contact uses high-grade corrosion-resistant copper alloys and high-grade Cr(VI)-free processed steel parts as standard for its PCB terminal blocks and plug-in connectors. This eliminates the possibility of electrolytic corrosion due to humidity and the risk of rusting and its consequences, i.e., unreliable electrical contacts and/or jammed screws.

Metallic contact surfaces are used to protect components against corrosion and environmental influences and to ensure their mechanical and electrical function. In order to achieve this, the layers must comply with the RoHS and WEEE EC Directives.
The selection of the contact system surface must balance the technical requirements, such as the current carrying capacity, contact resistance, resistance to environmental influences, with the cost-effectiveness of the solution.

Tin-plated contact system



Tin layers are the most commonly used surfaces in contact systems for PCB connections from Phoenix Contact. They are used for the soldering and/or contact surface. For plug-in contacts, reliable contacting can be achieved at higher voltages and currents (> 20 mV; > 100 mA).

Tin-plated plug-in connections have a slightly higher contact force than gold-plated contact systems. This results in gas-tight contact zones with low contact resistance in combination with the relatively soft tin.

With regard to solder contacts, tin surfaces are particularly suitable for soldering applications due to the relatively low melting point of tin and its compatibility with tin-based solders. Phoenix Contact uses a nickel resistive layer to prevent the normal tendency of tin to initiate an intermetallic reaction with base materials such as brass or bronze. This ensures the long-term quality of the surface (soldering capability after storage) and also prevents whisker growth in the long term.

Silver-plated contact system



Due to their very high level of conductivity even at higher currents, silver layers are particularly suitable for use as contact surfaces. Phoenix Contact uses this surface system accordingly in plug-in connectors, e.g., for high-current applications (COMBICON power). Silver-plated surfaces are also characterized by their low contact force and high insertion/withdrawal cycles.

Gold-plated contact system



Due to their noble electrochemical characteristics, gold layers are especially resistant to corrosion from a wide range of aggressive substances. This means that gold surfaces are not affected by oxidization, which allows low contact-normal forces to be applied to ensure electrical function. With these characteristics, gold surfaces are ideal for low voltages and currents (< 3 mA; < 20 mV) and durable surfaces with > 100 insertion/withdrawal cycles.

COMBICON direct plug-in technology

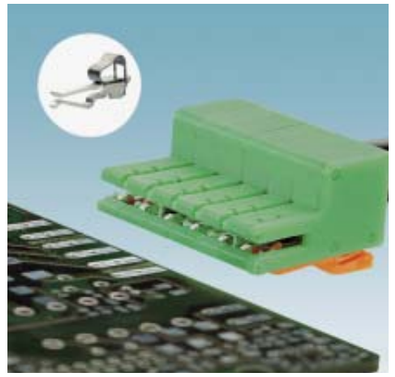
Plug-in contact directly with the PCB

Direct plug-in connectors in the ZEC 1, ZEC 1,5, and ZEC LPV product ranges make contact directly on the PCB without the need for additional pin strips. The plug-in connectors are simply inserted in the contact pads located on the edge of the 1.6 mm thick PCB. The pads have been integrated into the top and bottom of the PCB in the layout.

Direct plug-in connectors have a modular design. The plug-in connectors are therefore keyed by adding corresponding segments with a fixed side panel at any position. A slot is created in the PCB according to this position. This reliably prevents mismatching and polarity reversal of the plug.

Two spring-loaded engagement catches lock the plug-in connectors in place on the PCB. The interlocks engage in the correspondingly positioned holes on the PCB. Direct plug-in connectors are divided into two types:

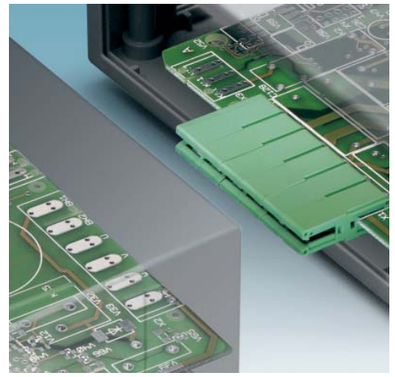
Conductor/PCB connection



The plug-in connectors in this product range are available with 3.5 mm, 5 mm, and 7.5 mm pitch (see page 365) for nominal voltages up to 400 V. Currents of up to 10 A can be transmitted via the solid contact springs..

The conductor connection uses spring-cage technology and is operated from the front by means of a screwdriver. The clamping space supports solid and stranded conductors up to 1.5 mm2 (1 mm2 with 3.5 mm pitch) with or without ferrules. The plugs are marked using SK 3,5/2,8, SK 5/3,8, and SK 7,5/3,8 self-adhesive marker cards (see page 796)..

PCB/PCB connection



These plug-in connectors enable the direct connection of two PCBs. For example, if you want to connect a motor filter to a frequency converter, you just insert it. The external connection - the ZEC direct plug - then changes over to the add-on device. The device housing design must ensure that mechanical forces are absorbed.

Like the conductor/PCB connectors, PCB/PCB connectors are also available with 3.5 mm, 5 mm, and 7.5 mm pitch (see page 365) for nominal voltages up to 400 V and for currents up to 10 A.
A modular housing structure combined with direct plug-in technology provides maximum flexibility..

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Wave soldering

Wave soldering is the traditional mounting method for all push-through components on the PCB.

The method is described in detail in standards; for lead-free processes, the process requirements have since been redefined.

The user therefore has the task of harmonizing their process with the varied requirements of the respective assembly and bringing it in line with standards.

Standards

The qualification profiles described in the standards refer to limit profiles. These limit profiles are used to qualify the component; the requirements specified here are therefore always more demanding than the real conditions experienced in practice. PCB connection elements must usually be processed in accordance with:

DIN EN 61760-1: surface mounting technology
Standard method for the specification of surface mounting components (SMDs)
International version:
IEC 61760-1: SURFACE MOUNTING TECHNOLOGY
Standard method for the specification of surface mounting components (SMDs)

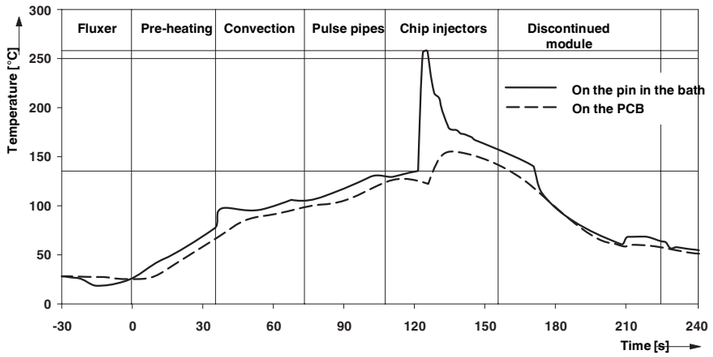
According to the profile, the maximum load on a solder pin is 260°C for 10 s in a double wave arrangement, however, it does not go into further detail regarding the geometrical conditions of the assembly. The heat input on the test object at a bath temperature of 260°C and 10 s depends on various factors, such as the thickness of the PCB, the number of layers, and the Cu content of the layers.

The area of application of the standards relates to SMD components; "push-through components" can therefore only be specified in accordance with these standards. However, the main advantage of these standards is that an adequate description of a wave soldering profile is provided, as used in standard modern soldering machines. This can also be used as a basis. In addition, PCB connection components must be soldered to SMD components, so that compliance with the requirements can be transferred.

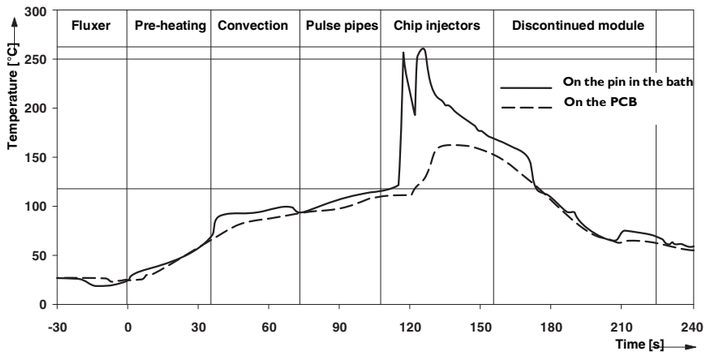
Practical implementation and recommendations

In practice, one would always try to solder at the lower limit of thermal loads. Solder bath temperatures are usually set to 265°C, however, for 95% of applications the maximum contact temperature and solder time are far below the values specified in the maximum profile above.

Below are two recommendations for practical profiles, which are used to qualify PCB connection elements from Phoenix Contact:



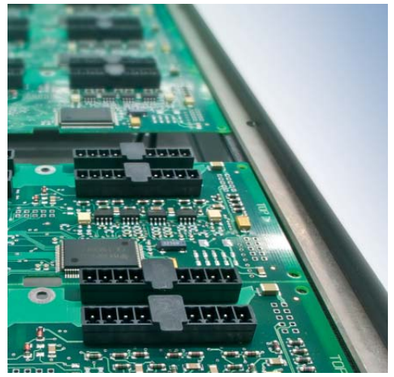
This profile is limited to a laminar wave at temperatures > 250°C for 3 seconds.



For this double wave, the maximum loads for both waves are > 250°C for 5 seconds in total.

The processability of lead-free wave-solderable components can be confirmed in accordance with the latest versions of standards DIN EN 61760-1 and IEC 61760-1. According to the profile, maximum soldering temperatures of 260°C for a maximum of 10 seconds apply. In exceptional cases, restricted temperatures and soldering times apply in the maximum peak range.

Through hole reflow soldering



The trend toward SMD components (surface mount devices) has continued in recent years.

Thanks to the use of cost-effective, fully automated processes with regard to solder paste printing, mounting components, and soldering, production on SMT lines represents a cost-effective and fast production process. This has directly resulted in a growing desire to integrate as many of the remaining wired components as possible into this production process.

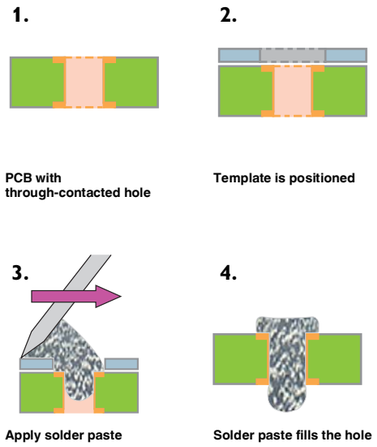
This trend-setting technology is known as through hole reflow (THR) technology and describes a method for mounting wired components on the PCB. It involves the through hole mounting of components within the mounting process in conjunction with the reflow soldering process. This is a technology developed for fully automated processes in SMT production.

The aim of this technology is to integrate through hole components into the SMT process. Both SMD and THR components should be processed using the same process equipment, the same method, under the same conditions.

The "pin-in-paste" method

The "pin-in-paste" method takes the typical steps of an SMT production process and applies them to a PCB with through-contacted holes. The functional principle of this procedure is now considered an acknowledged method. With the right component geometry, soldering material, and process parameters the results that can be achieved are very favorable.

Basic method of operation: sequence of the "pin-in-paste" method.



Requirements for THR components

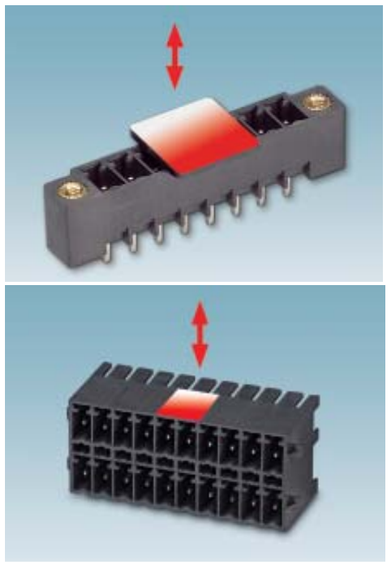
The integration of THR components in the SMT process requires the appropriate selection of materials (plastics as well as metal parts/surfaces) as well as adaptation of the geometry (e.g., suction surfaces, clearance around the soldering spot). In addition, machine-capable packaging (tape/tray) is required. The key requirements are described below:

It should be possible for THR components to be picked up by the mounting head of a machine without the use of any special grippers or special pipettes.



Component on the mounting head

Smooth and even suction areas are required for this. If these are not present or are too small, the component must be fitted with special pick-and-place pads.



Suction areas

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Requirements for THR components

THR components must have sufficient clearance around the solder pins on the bottom of the component. In addition, stand-offs must be used.

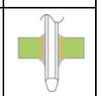
These ensure that contact is prevented in the soldering process with the solder paste prior to soldering as well as between the solder meniscus and housing parts. In addition, the heat supply is not impeded during soldering.



Clearance around pins

The soldering method and the type of soldering process should also be taken into consideration when selecting the right solder pin lengths. In general, shorter pins are recommended in lead-free processes and especially in the vapor phase process due to the significant change in solder paste parameters. Paste loss is thereby prevented.

This means that pins that protrude only slightly from the base of the PCB must be used. Alternatively, very short pins should be used that no longer fully penetrate the PCB.

Pin length (standards)		THR convection/ THR vapor phase	
1.4 mm		Optimum soldering. No projecting pin on 1.6 mm PCBs. Limited inspection.	
2.0 mm		Optimum soldering. 0.4 mm projecting pin on 1.6 mm PCB.	
2.6 mm		Optimum soldering. 1 mm projecting pin on 1.6 mm PCB.	

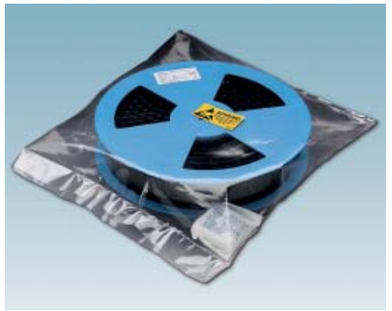
Qualification of THR components according to J-STD-020

The focus of qualification standard IPC/JEDEC J-STD-020 (Moisture/Reflow Sensitivity Classification for Non-Hermetic Solid State Surface Mount Devices) is the basic moisture absorption in plastics, which under the influence of the temperature of the reflow process can ultimately destroy the component through blistering, delamination or deformation.

Levels are defined which determine the type of packaging (e.g., dry bag) and processing in atmospheres typical for SMT processes depending on the component geometry and indirectly on the plastic selected.

The aim of this testing is to determine a moisture sensitive level (MSL) for each component, which is linked to corresponding specifications for processing in the SMT process.

For lead-free reflow solderable components, Phoenix Contact confirms processability in accordance with IPC/JEDEC J-STD 020 with specification of the relevant moisture sensitive levels for the product range.



Components in standard bag - MSL 1



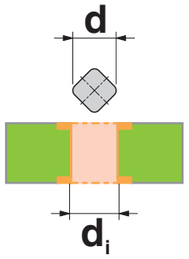
Components in dry bag - MSL 3

PCB layout

The use of THR technology requires modifications to the PCB layout. Choosing the right hole diameter ensures the return flow of the solder in the reflow process and that machine mounting is supported. If a suitable hole size is used, production tolerances are compensated and reliable mounting is possible.

As a rule of thumb, the following applies when determining a suitable hole diameter:

$$d_i = d + 0.3\ mm$$

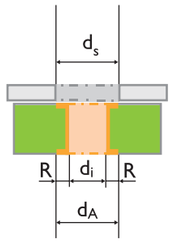


d = Diagonal of the square pin used
d_i = Inside diameter of hole

With regard to dimensioning the residual ring, the same requirements as for wave-soldered pads largely apply. Taking into consideration the air and creepage distances and the clearance below the component around the pin, the ring width should be between 0.2 and 0.5 mm. The potentially larger volume of paste on wider rings can have a positive effect on the soldering quality (meniscus formation).

Solder paste printing

In the printing process, the solder paste is applied simultaneously for SMD components (surface mounting) and THR components (through hole mounting) to the pads/residual rings using a template. Templates with a thickness of 100 - 150 µm are currently used. The cutout in the template is usually calculated according to the following diagram:

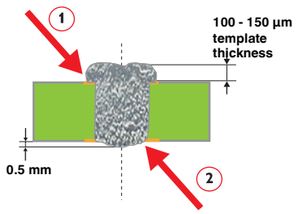


$d_S = d_A - 0.1$ where:
$d_A = d_i + 2 \times R$

(d_S = Template cutout ∅)
(d_A = Solder eye diameter)
(d_i = Hole diameter)
R = Residual ring width

The overprinting of solder paste on the solder resist is thereby avoided.

Under ideal conditions, paste printing yields the following results:



No overprinting required (1)
The solder paste is intentionally pushed through by up to 0.5 mm below the PCB (2)

Solder paste printing determines the appearance and quality of the soldering spot. When conditions are not ideal, there are various ways of controlling the quantity of solder paste:

– Spreader angle and spreader speed control the filling degree and amount of solder pushed through.
– The paste volume can be increased by means of overprint over the residual ring.
– Ridges in the template holes reduce the filling degree and amount of solder pushed through.

Mounting

There are significant cost advantages associated with integrating THR components in automated mounting with reflow processes.

However, due to their size and weight, THR components can usually only be mounted using pick and place machines. On the one hand this reduces mounting speeds (no loss of components) and on the other hand, a height of 25 - 40 mm is required for mounting components. Components are therefore picked up using standard vacuum pipettes.

The component is picked up at defined positions, it is then measured via the camera, and then placed on the PCB.



Component picked from the tape



Camera recording for component measurement

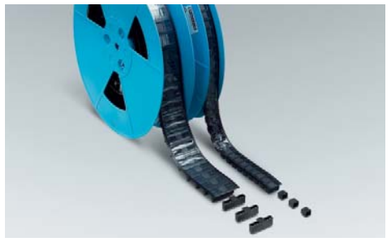


Component placed on the PCB

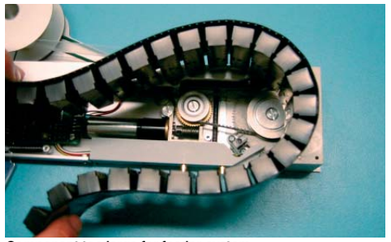
Mounting

Tape-on-reel packing is the most common way of supplying SMT and THR components.

For THR components, reels with the usual standard widths of 24/32/44/56/72 and 88 mm are used. Due to the component size, especially in the case of tall components, it must be ensured that the radius of the feeder is sufficient and there is enough space for input and output of the tape in the machine.



Tape-on-reel packing



Component too large for feeder system



Special type of pin strip in a tube

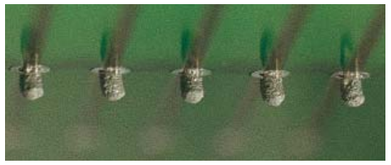


High-volume THR component in a tray

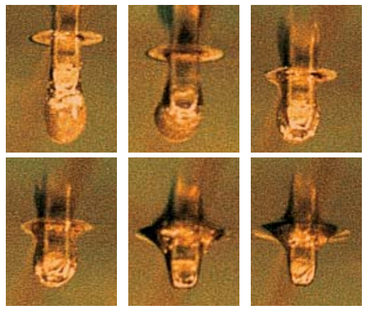
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Reflow soldering process

After mounting the components, the solder in the form of a paste drop (matchstick head) is ready at the pin tip below the hole.



In the subsequent soldering process, the paste melts when the liquid temperature is reached and passes through the hole along the pin flank with the help of the capillary effect. In the subsequent cooling phase, part of the solder sinks below once again and forms the characteristic solder globule.



Modern SMD production mainly uses convection ovens with modern heat management with adjustable heating from above and below.

With regard to the THR technology, there are just a few model-specific limitations.

As a result vapor phase soldering ovens have been further developed in recent years. With its higher production bandwidth, this oven technology is gaining importance thanks to its “inline” production. One particular point should be noted when using THR components: the condensate that settles on the paste drop can make it run. This can be counteracted by selecting a shorter solder pin length.

Standards and soldering profile

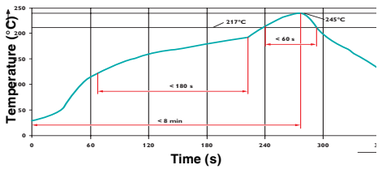
DIN EN 61760-3 applies for THR components. The reflow process is also described with temperature profiles according to standard DIN EN 61760-1 or also according to IEC 60058-2-58.

Standard IPC/JEDEC J-STD 20, previously described in the context of qualification, also contains corresponding profiles, which can be used as the basis for the relevant process profile.

Since the heat management of each individual board depends on a large number of factors (e.g., size and thickness of the board, component size, etc.), a direct profile cannot be specified for the use of THR components. Therefore recommendations can only be made based on the above standard profiles.

In practice, one would always try to solder at the lower limit of thermal loads. For widely used SnAgCu soldering alloys, common peak temperatures are between 235°C and 240°C.

Below is a recommended practical profile (component upper side):

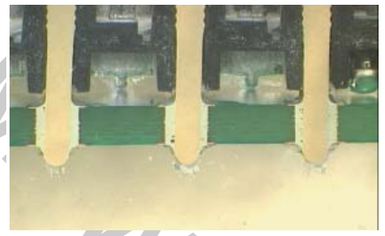


Lead-free reflow soldering profile (SnAgCu)

For lead-free reflow solderable components, Phoenix Contact confirms processability in accordance with IPC/JEDEC J-STD 020 with specification of the relevant moisture sensitive levels for the product range. In some cases, reduced maximum permissible “peak body temperature” is specified.

Inspection

Standard IPC-A-610 can be used for the inspection of THR soldering spots. The above parameters allow implementation of Class 3 soldering spots - products for maximum reliability. Through-contacting fill as well as the wetting of the solder globule surrounding are assessed:



Filling degree of at least 75% achieved. Small solder globules form on both sides.



Wetting of surrounding (at least 75%) on solder destination and solder source side both 360° or 100% (typical for THR process).

THR soldering spots have a shape that is very similar to that of soldering spots created during wave or selective soldering. The main difference is the shape of the solder globule. Since less solder is available for the process, the solder globules that are formed are smaller or not fully developed.

This special appearance must be discussed with the Quality Assurance department or taken into account when using automatic inspection systems (AOI).

Device connection technology for signals, data, and power from Phoenix Contact

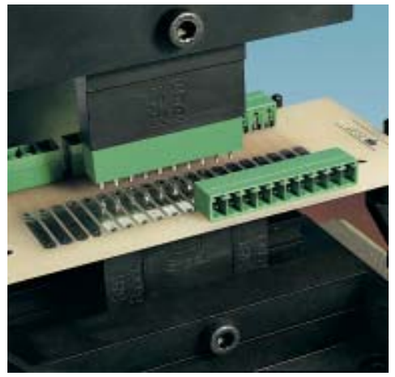
Mounting types

COMBICON press-in technology

Solder-free PCB connection

This mounting type, which does not involve soldering, is characterized by low press-in and high holding forces. It is used in applications where PCBs must not be subjected to thermal loads or where ready-soldered SMD components are not permitted on the PCB. The elastic press-in zone ensures reliable contacting and low contact resistance.

Headers in the EMC and EMSTB product ranges are equipped with the ERNIPRESS press-in technology contact system. They are suitable for PCBs with a thickness of 1.5 mm or more and meet the applicable requirements of standard DIN EN 60352-5: 1995-9. According to this standard, a special through-contacted hole is required, whose structure depends on the design type used.

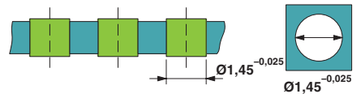


In the simplest case, the press-in method is implemented using a toggle press; pneumatic presses are used for automated mounting methods. The horizontal headers can be pressed into the PCB using a flat press-in stamp. Contact-supporting tools are not required. Contact-supporting lower stamps are available for vertical headers. Stamp sets consisting of an upper and lower stamp are available on request.

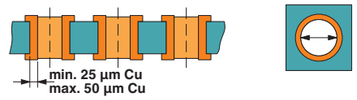
The high quality and reliability of press-in plug-in connectors are complemented by their easy handling and user-friendly repair (just press out).

Structure of the metal-plated hole for EMC 1,5/...-G(F)-..., EMCV 1,5/...-G(F)-...

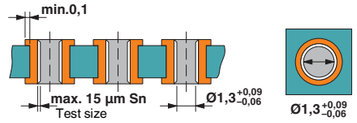
1) **Hole in the base material,**
mostly epoxy glass fabric FR4 or EP-GC



2) **Hole with Cu sleeve**

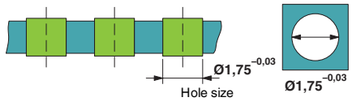


3) **Through-contacted hole with Sn**

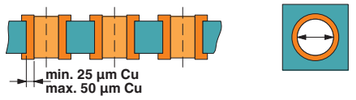


Structure of the metal-plated hole for EMSTB(A) 2,5/...-G(F)-... and EMSTBV(A) 2,5/...-G(F)-...

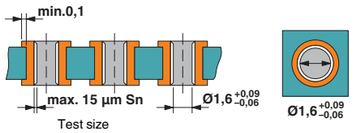
1) **Hole in the base material,**
mostly epoxy glass fabric FR4 or EP-GC



2) **Hole with Cu sleeve**

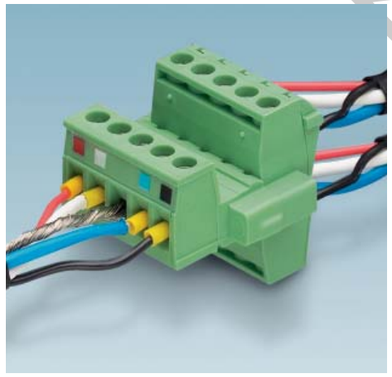


3) **Through-contacted hole with Sn**



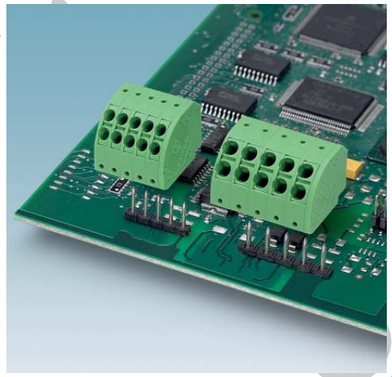
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Double conductor connection



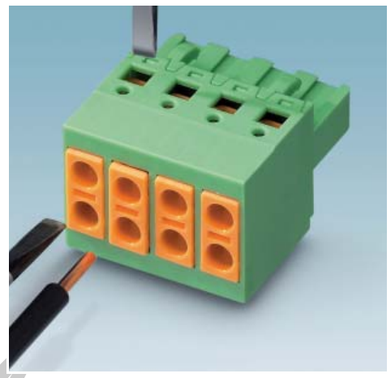
TWIN plug-in connector types are characterized by the connection of two conductors on one connection terminal. Depending on the size, TWIN plugs are used to loop through the signals or to distribute potential or power. A key feature is that the function of the subsequent devices is retained when removing individual plugs in a device series.

PTDA 1,5 TWIN plugs with spring connection, 3.5 or 5.0 mm pitch



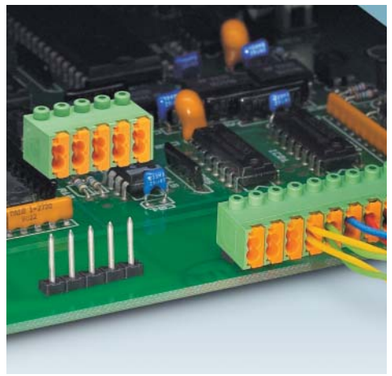
– With push-in spring connection
– Symmetrical, rounded design
– 45° angled connection direction
– Contacting on pin strips with 1 mm Ø or 1.3 mm Ø pins
– Conductor cross section: up to 1.5 or 2.5 mm²
– Rated current: 8 or 13.5 A
– Rated voltage: 240 or 400 V
– Open the clamping space via the release button using a screwdriver

TVFKC 1,5 TWIN plugs with spring connection, 5.0 mm pitch



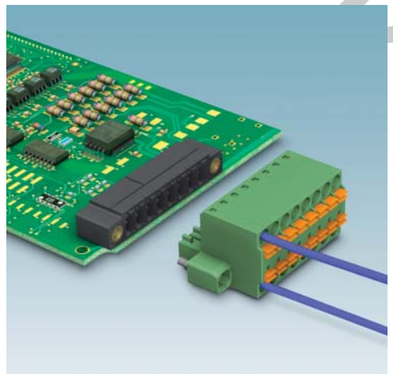
– With push-in spring connection
– Front conductor connection
– Conductor cross section: up to 1.5 mm²
– Rated current: 10 A
– Rated voltage: 320 V
– Low design height of just 15 mm
– Open the clamping space via the orange release button or the actuation shaft on the side using a screwdriver

FK-MPT 0,5 TWIN plugs with spring connection, 3.5 mm pitch



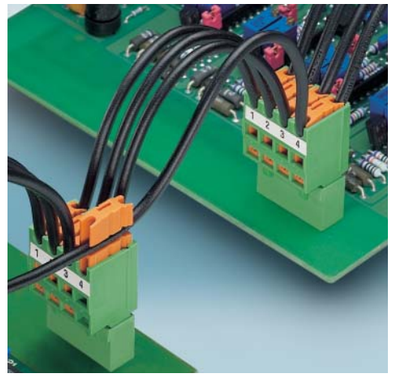
– With push-in spring connection
– Front conductor connection
– Contacting on pin strips with 1 mm Ø pins
– For solid conductors
– Conductor cross section: up to 0.5 mm²
– Rated current: 4 A
– Rated voltage: 250 V
– Open the clamping space via the orange release button using a screwdriver

TFMC 1,5 TWIN plugs with spring connection, 3.5 mm pitch



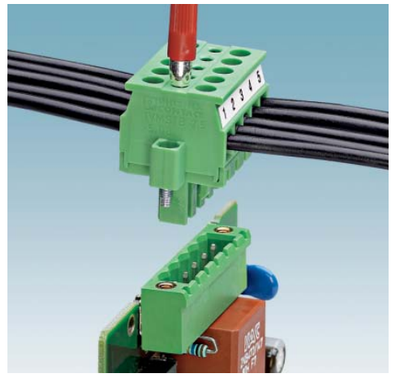
– With push-in spring connection
– Front conductor connection
– Conductor cross section: up to 1.5 mm²
– Rated current: 8 A
– Rated voltage: 160 V
– With touch connection for voltage testing using a 1 mm Ø test pin
– Open the clamping space via the orange spring lever using a screwdriver

QC 1-BUS TWIN plugs with displacement connection, 5.0 mm pitch



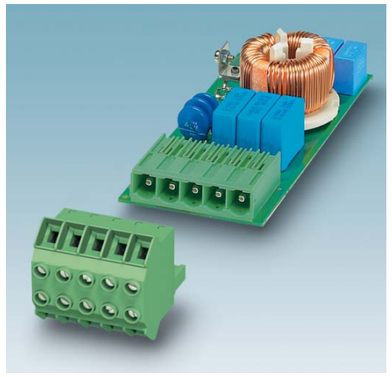
– With displacement connection
– No conductor pretreatment required
– Conductor cross section: up to 1 mm²
– Rated current: 10 A
– Rated voltage: 630 V
– Conductor connection: insert insulated conductor in the orange slide and press down using a screwdriver
– The conductor can also be released using a screwdriver

TVMSTB 2,5 TWIN plugs with screw connection, 5.08 mm pitch



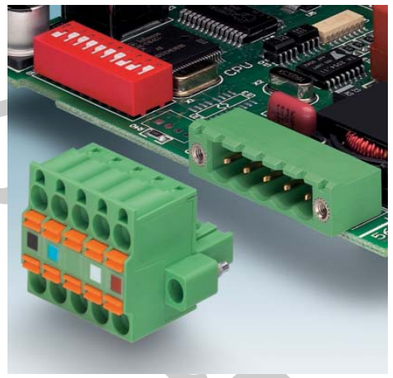
– With screw connection
– Conductor connection perpendicular to the plug-in direction
– Conductor cross section: up to 2.5 mm²
– Rated current: 12 A
– Rated voltage: 400 V
– With test connection for 2.3 mm Ø test plugs

TPC 16 TWIN plugs with screw connection, 10.16 mm pitch



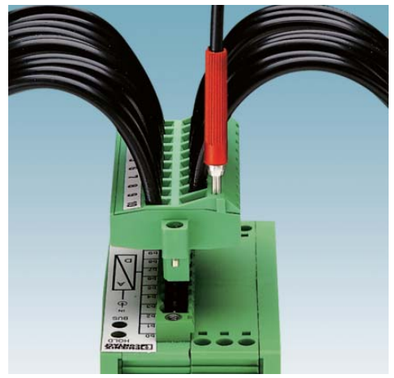
– With screw connection
– Compact design height of just 51.4 mm
– Conductor cross section: up to 16 mm²
– Rated current: 76 A
– Rated voltage: 1000 V

TFKC 2,5 TWIN plugs with spring connection, 5.08 mm pitch



– With push-in spring-cage connection
– Conductor cross section: up to 2.5 mm²
– Rated current: 12 A
– Rated voltage: 320 V
– With test connection for 2.3 mm Ø test plugs
– Version for DeviceNet™ with gold-plated contact system
– Marker strips available for DeviceNet™ color coding
– Open the clamping space via the orange spring lever using a screwdriver

TMSTBP 2,5 TWIN plugs with screw connection, 5.08 mm pitch



– With screw connection
– Conductor connection parallel to the plug-in direction
– Conductor cross section: up to 2.5 mm²
– Rated current: 12 A
– Rated voltage: 320 V
– With test connection for 2.3 mm Ø test plugs
– Version for DeviceNet™ with gold-plated contact system
– Marker strips available for DeviceNet™ color coding

TSPC 5 TWIN plugs with spring connection, 7.62 mm pitch



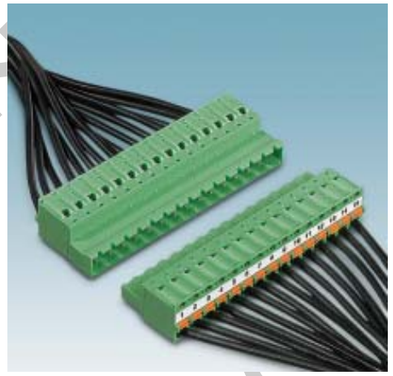
– With push-in spring connection
– Front conductor connection
– Conductor cross section: up to 6 mm²
– Rated current: 41 A
– Rated voltage: 1000 V
– Open the clamping space via the actuation shaft using a screwdriver

Numerous possible combinations

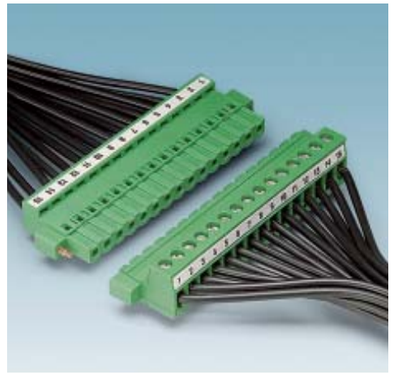
Inverted plug-in connector systems are mainly used wherever shock protection is required for the plug-in connector on the PCB. Compared to the standard system, a feature of inverted contact systems is the swapped position of the socket and pin contacts. The IMC 1,5, IC 2,5, and FKIC 2,5 as well as the GIC 2,5, IPC 5, and IPC 16 inverted plug-in connector ranges combine screw or spring-cage connection in the plug with socket contacts that can be soldered in the corresponding headers. The rated voltages for these systems are:

– IMC 1,5 plug-in connectors: 160 V
– IC 2,5 or FKIC 2,5 plug-in connectors: 250 V
– GIC 2,5 plug-in connectors: 400 V
– IPC 5 plug-in connectors: 1000 V
– IPC 16 plug-in connectors: 1000 V

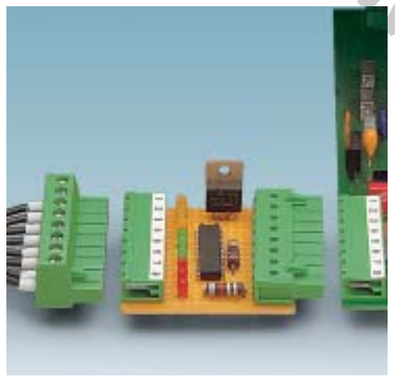
Combination with the corresponding counterparts of the MC/FK-MCP 1,5 or MSTB 2,5/FKC 2,5 or GMSTB 2,5/GFKC 2,5 or PC 5/IPC 5, PC 16/IPC 16 plug-in systems offers a wide range of possible applications. The IC plug is used as an example in the following combinations. The FKIC spring connection version can be used as an alternative. Similar combinations are possible for IMC, GIC, and IPC plug-in connectors.



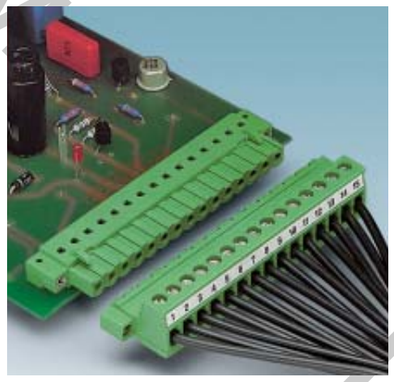
2. Two plugs as free-hanging connection.



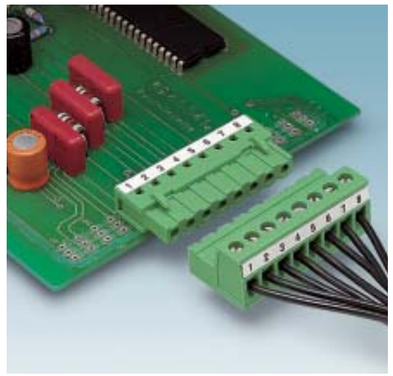
5. IC 2,5/... STGF with threaded flange for vibration-resistant free-hanging connection with MSTB plugs with screw flange.



3. IC 2,5 versions and MSTB 2,5 headers to create test, indicator, convertor or branch adapters.



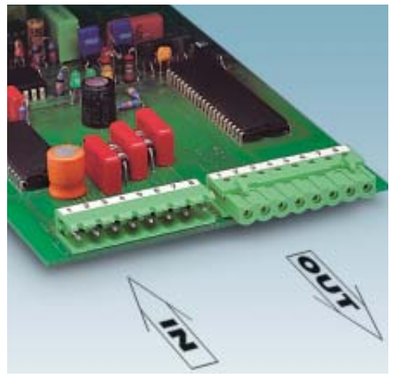
6. IC 2,5/... STF with screw flange for vibration-resistant connection with IC 2,5/... GF inverted headers.



1. IC 2,5 plug and IC 2,5 header as shock-proof PCB output.



4. ICV 2,5 versions and MSTB 2,5 headers to create primary/secondary PCB connections. Here, FLRP lateral guide rails are used to stabilize the secondary PCB.

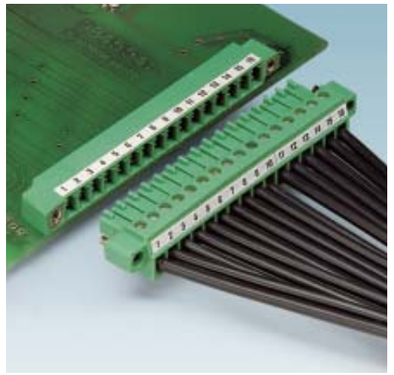


7. MSTB 2,5 and IC(V) 2,5 headers for the clear separation of inputs and (shock-proof) outputs.

Insertion and withdrawal forces

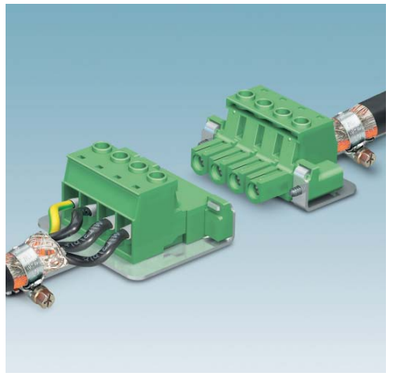
The insertion and withdrawal forces of a plug-in connector vary from 4 N to 8 N per position depending on the contact system and contact surface. In most applications, these insertion forces predominate over the pull-out forces. As far as the requirements are concerned, the pull-out forces defined by the weight of the connecting conductor and the plug-in connector itself can be too low for plug-in connectors with a small number of positions. It is recommended that plug versions with mounting flange for the header are used to prevent the connection being released too easily. The installation scenario often plays an important role here: the use of plug versions that support connection to the header is recommended if relatively long, non-supported connecting cables are used or when the device is used under harsh operating conditions and in the event of vibration.

STF/GF screw flange



As standard, the plugs are fixed to headers using screw locking. These versions (plugs with the designation -STF, headers with the designation -GF) are standard in all performance categories. Here, the screw is located in the plug and the corresponding thread in the base strip.

Threaded flange



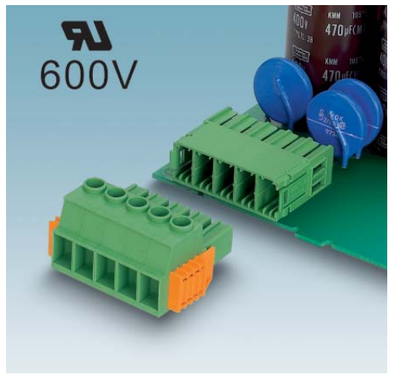
A screw flange version consisting of all inverted plugs is also available. In this case, the flange has a thread instead of a screw. Two plugs of a cable/cable connection can therefore be screwed against one another. This prevents accidental release of the connection.

RF/RN self-locking flange



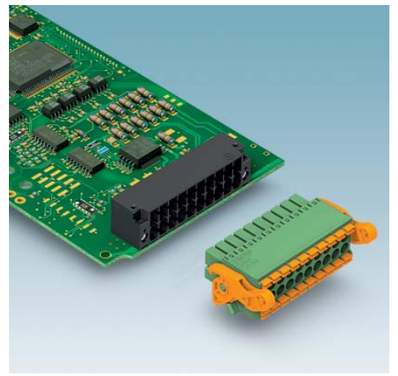
Applications that only require a vibration-resistant connection can use the self-locking flange instead of the screw flange. It locks automatically without having to use a tool. It is identified by RF (self-locking flange) in the plug designation and RN (engagement nose) in the plug designation for headers or inverted plugs.

Click and Lock



For the PC 5 range, the “Click and Lock” system is available as an alternative to the screw or threaded flange. This enables tool-free, automatic locking of the plug (-STCL) and base strip and of two plugs. This locking system is reliable even in the event of strong vibration and also saves more space than the screw locking flange.

Lock & Release



The “Lock & Release” mounting system combines a locking mechanism with a release mechanism. Both actuating levers on the plug lock when the plug is inserted in the header. Releasing the levers then automatically ejects the plug from the header.

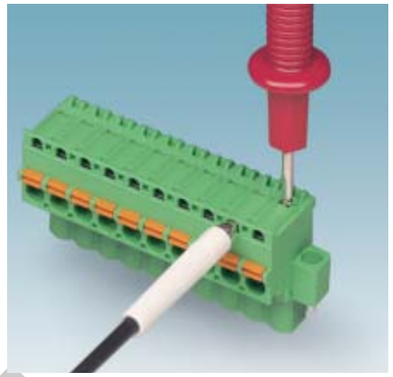
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Mounting flanges

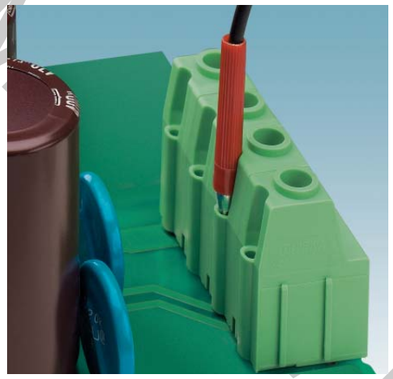


PCB terminal blocks for high currents in the range from 76 A to 125 A have mounting flanges which are used to connect the PCB terminal blocks to the PCB by means of a screw connection. It is also recommended that the conductors are supported.

Standard test plugs are used for pick-off, and can be ordered from the COMBICON range of accessories (see page 832).

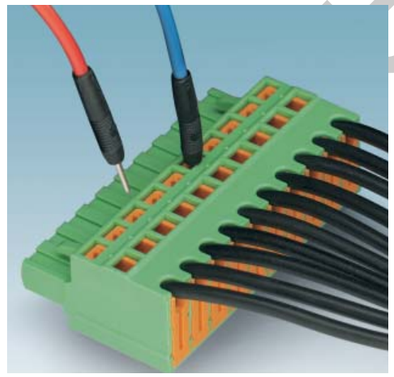




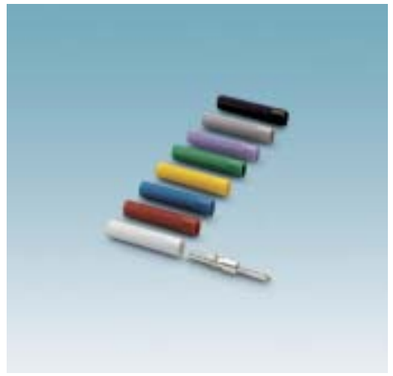


Naturally, all standard measuring devices can be used for reliable testing.

The integrated test connection designed to accommodate a 2.3 mm Ø test plug enables you to test each individual contact point. Special test plugs are available for test connections smaller than 1 mm Ø.



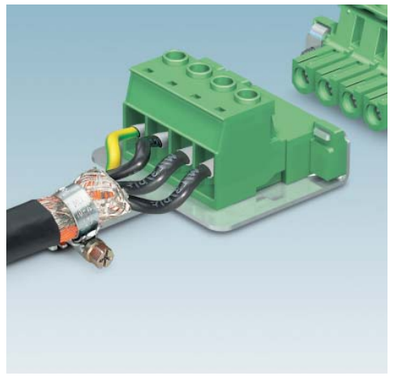
Quick and easy testing using integrated test connections



The COMBICON range from Phoenix Contact offers a variety of products with integrated test connections for service work and locating errors.

Measurements can therefore be taken easily without having to remove the wiring or other accessories.

Needless to say these test connections are also suitable for the continuous monitoring of process-relevant parameters.



Strain relief

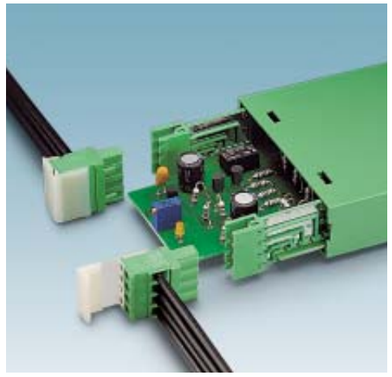
Strain relief elements have proven themselves, e.g., in high-position applications or applications with long cable outlets. Here, the mounting surface of the plug supports the connected cable effectively, thereby relieving the plug of the conductor pull-out force.

In the COMBICON control product range, additional versions are available with strain relief (e.g., the MSTB 2,5 range) or strain relief must be provided as an accessory by snapping it onto the standard plug (e.g., FKC 2,5 range). Strain relief is also available for the MC 1,5 range.

Shielding versions are available for the plugs in the COMBICON power product range. These too can also be used as cable strain relief. Four positions are available as standard, but any number of positions can be provided on request.

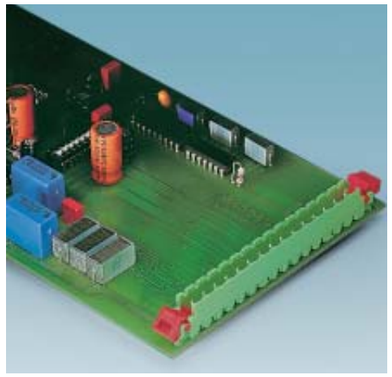
Strain can also be relieved using the cable housing for MC, MSTB, and PC 4 plugs. This also protects the plug from dust.



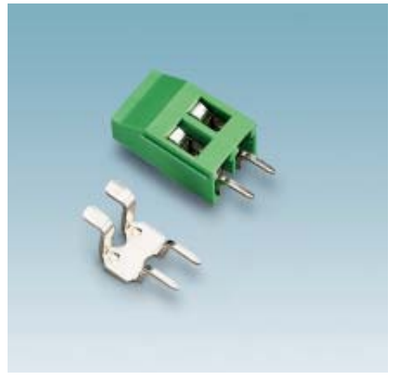


STEH/GEH release aids

Versions with extraction aid (STEH) are available for vertical MVSTBR/MVSTBW 2,5 plugs. The white accessory latch can be folded back after insertion and thereby additionally serves as shock protection for the screw.

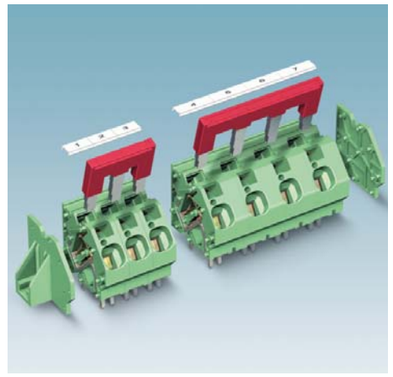


The release aid (GEH) is available as a special solution for vertical MSTBV 2,5 headers. An actuator can be used to easily release all plugs compatible with this base strip from the header.



Bridges

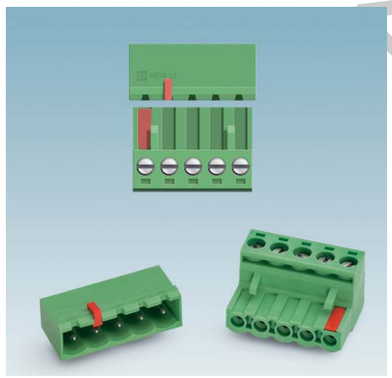
Two methods are available for potential distribution or looping through the ground conductor in PCB terminal blocks. The easiest solution is a separate bridge fixed directly in the connection area, if necessary, with a supply conductor. Internally bridged versions are available in the standard MKDS product range. The entire clamping space is also available here.



Fully insulated plug-in bridges are also available for ZFKDS 4 and ZFKDS 10 PCB terminal blocks. They enable individual electrical connection of the terminal blocks. The bridges, which are available with various numbers of positions, are inserted in the separate bridge shafts using minimal force.

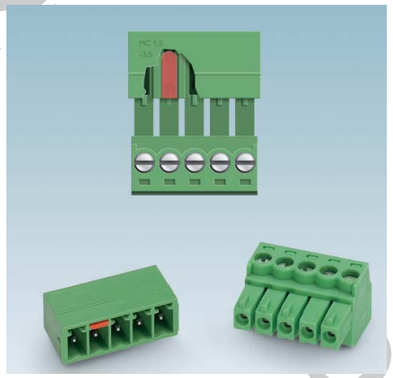
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Keying systems without loss of positions



Keying with CP-MSTB and CR-MSTB

Function: keying prevents the same type of plugs from being mixed up. To this end, the plugs are mounted with corresponding keying profiles (CP-MSTB) and the headers with corresponding keying sections (CR-MSTB). If the keying section and the keying profile are mounted on the same position, the plug cannot be plugged in. The image shows keying that can be plugged in.



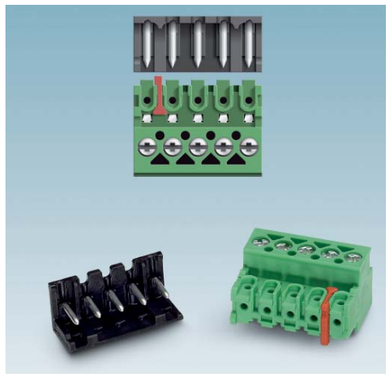
Keying with CP-MC 0,5 or CP-MSTB

Function: headers in the MC 0,5 and MC 1,5 product ranges are mounted with keying profiles (CP-MC 0,5 or CP-MSTB). The corresponding keying tabs are then cut on the plug side. If the keying profile is mounted on the same position where the keying tab has been cut, the combination can be plugged in (see image).



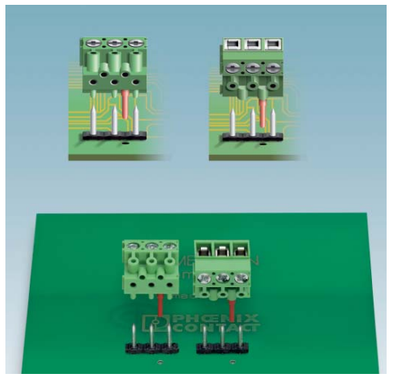
Keying with CP-PC RD or CP-HC

Function: headers and plugs in product series PC 4, PC 5, and PC 16 (CP-PC RD), and product series PC 35 (CP-HC) are mounted with keying profiles. Only correspondingly keyed base strips and plugs can be plugged in. If the keying profile on the housing and on the plug are mounted on the same position, the plug cannot be plugged in. The image shows keying that can be plugged in.



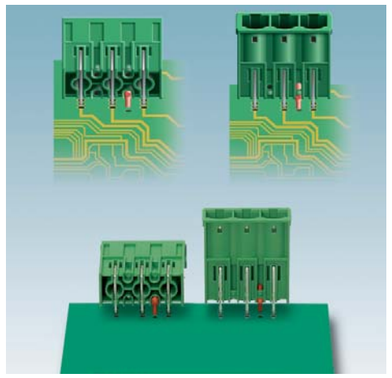
Keying with CP-PT 2,5

Function: the plug is mounted with the CP-PT 2,5 keying profile irrespective of whether it is used vertically or horizontally. The keying ribs in the base strip then determine whether the plug can be plugged in. The corresponding positions of the keying ribs are formed during the manufacturing process. This ensures polarity protection among plugs of the same type. The combination shown in the image cannot be plugged in as the keying profile works against a keying rib in this case.



Keying with CP-PT 1,5

Function: the plug is mounted accordingly with the pin (CP-PT 1,5) depending on whether it is used horizontally or vertically. This pin then enters the hole provided in the layout of the PCB when plugged into the correct positions. Incorrect connection is therefore prevented.



Keying with CS-IPC 16/6

Function: keying of PC 6-16 and IPC 16 headers before being mounted on the PCB. PC 6-16 and IPC 16 headers can be fitted with the CS-IPC 16/6 keying pin, whether used horizontally or vertically. The unused end of the keying pin can now be removed using a diagonal cutter. When mounting the PCB, the remaining part of the keying pin then enters the hole provided in the PCB. This provides anti-rotation protection on the PCB, particularly when mounting manually.

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COMBICON PCB terminal blocks and plug-in connectors for use in potentially explosive areas



If systems are installed in potentially explosive areas, a large number of safety precautions must be taken. The requirements placed on electrical equipment for use in areas with a danger of gas explosions are described in the IEC/EN 60079 series of standards.

Increased safety “Ex e”

The specific requirements placed on items of equipment with increased safety “Ex e” protection type are provided in Part 7 of the IEC 60079 series of standards. Compared to normal applications, these include stricter requirements for air and creepage distances, the heating response, resistance to aging, and the insulation capability of insulation materials.

The conformance of COMBICON Ex PCB terminal blocks and plug-in connectors with the requirements for increased safety is confirmed by EC-type examination certificates and markings for directives and standards. These documents and installation notes containing important information regarding the correct use of PCB terminal blocks and plug-in connectors in areas with increased safety can be found on the Internet at www.phoenixcontact.com.

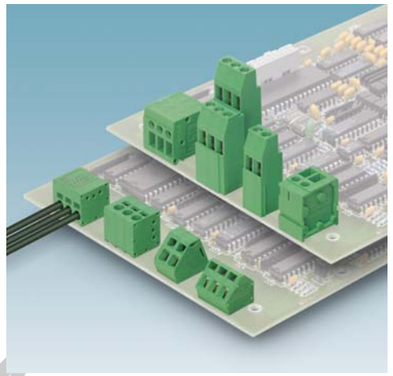
General information:

For product-specific information, please refer to the installation notes.

– PCB terminal blocks and plug-in connectors are designed for installation in suitable housing. When used in environments containing potentially explosive gases or dust, this housing must meet the applicable requirements of IEC 60079-0, IEC 60079-3, and IEC 60079-7 or IEC 61241.

The PCB terminal blocks and plug-in connectors must be installed in a wiring space or housing so that they are secured against rotating or accidental loosening.

– For information on additional fixings, please refer to the installation notes.
– When connecting conductors, make sure that the wire insulation extends right up to the terminal point. Following installation of the PCB terminal blocks and plug-in connectors in a wiring space with increased safety “Ex e” protection type, the air and creepage distances must meet the requirements of IEC 60079-7. These requirements apply in particular to the mixed installation of different components and when using additional accessories.
– When using cross sections smaller than the rated cross section specified in the EC-type examination certificate, the corresponding lower current value must be specified in the EC-type examination certificate for the device.
– For some PCB terminal blocks, the specified voltage can be increased using pitch spacers. The voltages resulting from the use of one or more pitch spacers can be found in the EC-type examination certificate. We will be happy to confirm which other combinations are supported.



Intrinsic safety “Ex i”

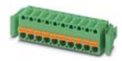
For intrinsic safety “i” protection type according to IEC 60079-11, both PCB terminal blocks and plug-in connectors with Ex approval and standard products can be used. They are simply used as electrical equipment and do not require any particular certification or markings. Make sure that the air and creepage distances required in connection with intrinsically safe circuits are observed. The connection points of these circuits must be clearly marked. If marking is by means of color-coding, the connection points must be light blue.

Marking

The explosion-protected equipment must be marked in such a way as to guarantee that it is used correctly in accordance with its safety characteristics.

Note: in accordance with the specifications of the ATEX Directive, components such as PCB terminal blocks and plug-in connectors are excluded from CE marking.

Cross-reference list for CLASSIC COMBICON plug-in connectors with Ex approval

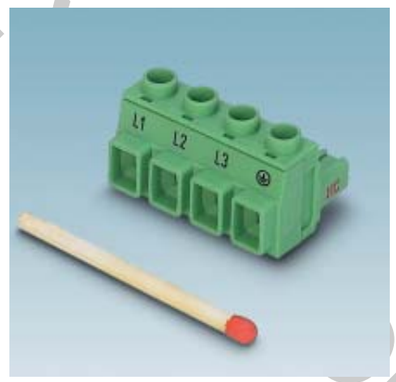
CLASSIC COMBICON plug	Type	CLASSIC COMBICON header	MSTB[V]...GF EX Page 369	MSTB[V]A...G...RN EX Page 375	IC[V]...GF EX Page 377	GMSTB[V]...GF EX Page 375
		Pitch in mm	5.08	5.08	5.08	7.62
	MSTB...STF EX Page 369	5.08	•			
	MVSTB[R][W] Page 369	5.08	•			
	IC...STF EX Page 373	5.08			•	
	FKC...STF EX Page 371	5.08	•			
	FKC...ST...RF EX Page 371	5.08		•		
	FKIC...STF EX Page 373	5.08			•	
	GMSTB...STF EX Page 379	7.62				•
	GMVSTB[R][W]...STF EX Page 379	7.62				•
	GFKC...STF EX Page 381	7.62				•

Note:

The plug-in connectors only have approval for use in potentially explosive areas with increased safety Ex e in the combination shown here.

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Technical information regarding the PCB connection





International approvals, such as UL/CUL consistently raise issues during device development. As a responsible manufacturer of device connection technology, we develop and test our products according to the latest safety standards in such a way that our customers do not encounter any problems with international approval for their devices.

COMBICON PCB terminal blocks and plug-in connectors are recognized components according to UL 1059. In the end application, these components undergo final evaluation and are approved together with the device according to UL 508 (C) or UL 840.

The stringent requirements of UL 1059 thereby ensure that a plug-in connector for 600 V UL in Use Group C observes a clearance of 9.5 mm and a creepage distance of 12.7 mm with a pitch of 7.62 mm. In the end application, these components undergo final evaluation and are approved together with the device according to UL 508 (C) or UL 840.

UL Online Certification Directory

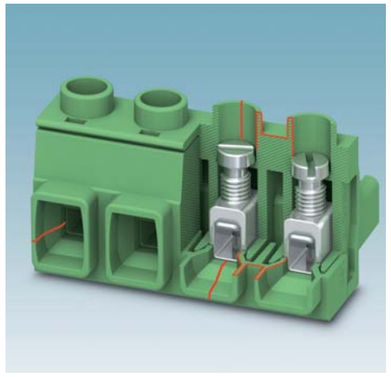
Official recognition of the terminal blocks and plug-in connectors is confirmed by a UL report. This contains important information about the product, such as connection data (ratings), air and creepage distances, materials, dimensions, and application conditions (conditions of acceptability). Together with the product names, the connection data is documented in "yellow cards" or the UL Online Certification Directory as proof of approval. UL has published a website at www.ul.com/database where this data and corresponding explanations are generally available.

Phoenix Contact housing production is UL-certified

The plastics used in Phoenix Contact housing all have their own approvals. Our plastics production is recognized by Underwriters Laboratories as "UL Recognized Molder A1913" (File E240868) and is regularly audited.

The UL logo including ID and the plastic material code (e.g., P01) are also printed on the packing label of the electronics housing. Both during device approval and inspection of your electronics production, for the majority of product ranges it is very easy to verify the housing plastics' conformance with UL 746D using the material code on the label.

Product and device standards



UL 1059 "Terminal blocks"

In order that Phoenix Contact products can be used in industrial applications without restriction, they are generally tested and recognized according to UL 1059. The following table lists the air and creepage distances required for the components. The Use Group refers to the subsequent area of application of the termination device.

Use Group		Definition	Max. nominal voltage (V)	Required distances (mm)	
				Clearance	Creepage distance
A		Operating elements, consoles, etc.	150 300 600	12.7 19.1 25.4	19.1 31.8 50.8
B		Standard devices, including office and electronic data processing equipment, etc.	150 300 600	1.6 2.4 9.5	1.6 2.4 12.7
C		Industrial applications, without restrictions	150 300 600	3.2 6.4 9.5	6.4 9.5 12.7
D		Industrial applications, operating equipment with limited rating	300 600	1.6 4.8	3.2 9.5

Device standards

UL 508 "Industrial control equipment"
Terminal blocks, which are recognized according to UL 1059, meet the requirements of UL 508 for field wiring terminal blocks and can therefore be used in accordance with this standard without restriction. UL 508 also permits alternative rating in accordance with UL 840.

UL 508 C "Power conversion equipment"

This UL standard applies specifically to power electronics (motor controllers, frequency inverters, etc.). The requirements for field wiring terminal blocks are similar to the specifications of UL 508. Alternative rating in accordance with UL 840 is also possible here.

UL 840 "Insulation coordination including clearances and creepage distances for electrical equipment"

This standard describes an alternative procedure for designing the insulation of end products for defined ambient conditions (surge voltage category, pollution degree, material index), provided that this is permitted by the device standard.

Alternative dimensioning of air and creepage distances according to UL 840

In accordance with UL 840 (3rd edition 2005), the following procedures are carried out to determine air and creepage distances:

1. Equivalent clearances

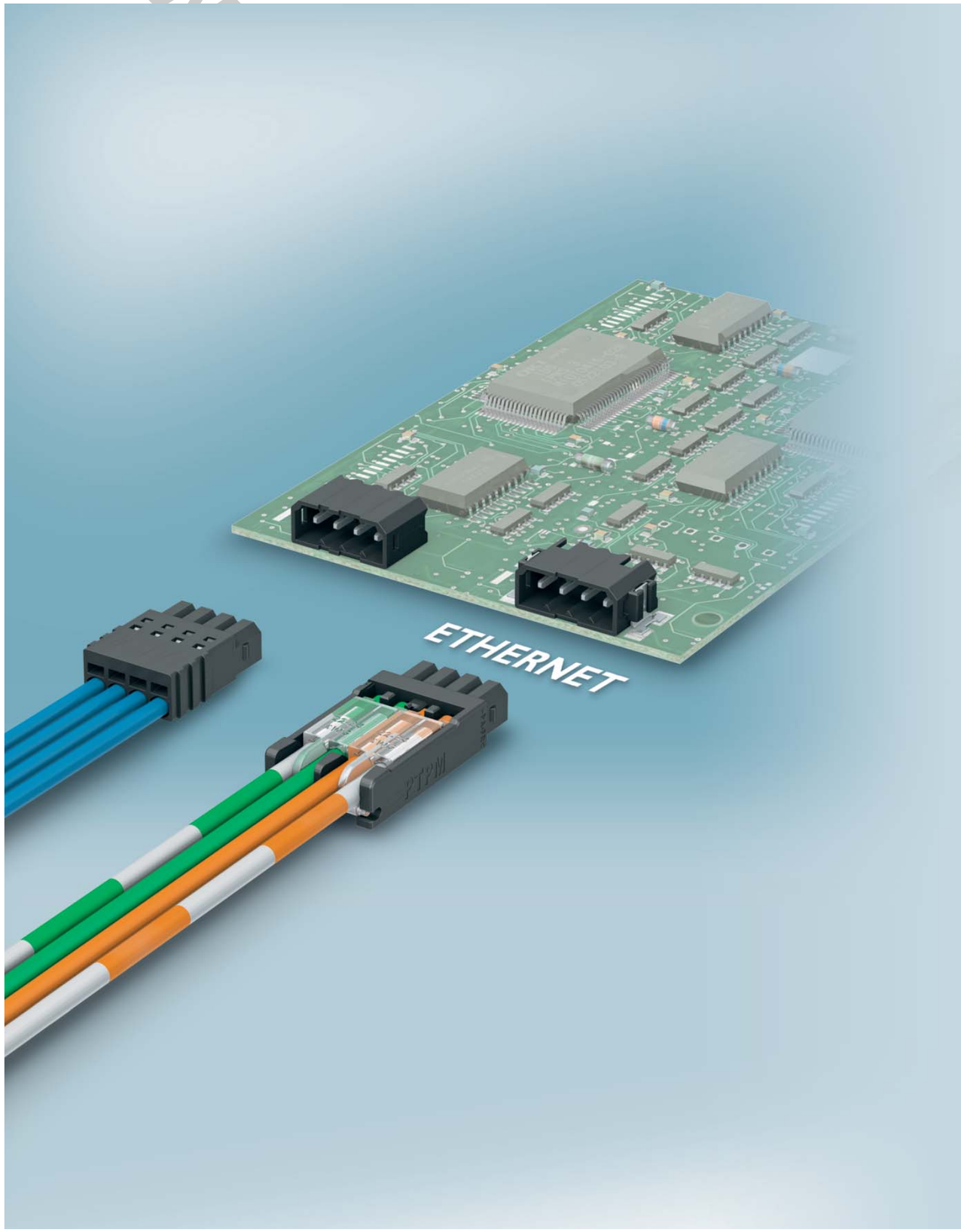
Not meeting the clearance required in the device standard is permitted if the termination device has passed one of the surge voltage tests described in UL 840 (Table 7.1) without sparkover. The amount of surge voltage depends on the clearance required in the product standard.

2. Clearances for limited surge voltages

If it is ensured that surge voltages occurring during operation do not exceed a specified maximum value, the required clearances for the known pollution degree can also be determined in accordance with Table 8.1.

3. Creepage distances

The minimum requirements described in Table 9.1 for general creepage distances and those specifically for PCBs must be met, taking into consideration the operating voltage, pollution degree, and creep resistance of the material.



High density PCB terminal blocks and plug-in connectors

Electronic components are becoming increasingly compact and are mapping more and more functions. In order to follow this trend, the PCB connection technology has to be adapted to the small size of other electronic components. These products, which are characterized by their extremely small size, are all available in the new COMBICON HD series.

COMBICON HD consists of PCB terminal blocks and plug-in connectors with 2.0, 2.5, and 2.54 mm pitch.

The PCB terminal blocks are designed for SMT and reflow soldering processes and have a push-in spring-cage connection or an insulation displacement connection.

The plug-in connectors are available with three connection methods: push-in spring-cage, pierce, and insulation displacement technology. The corresponding headers can be connected to the PCB using wave soldering, reflow soldering or SMT processes.

General 46

COMBICON HD cross-reference list 48

PCB terminal blocks and connectors with 2.5 mm pitch 51

THR spring-cage PCB terminal blocks up to 0.75 mm² 51

SMD spring-cage PCB terminal blocks up to 0.75 mm² 53

Connectors with pierce contact up to 0.34 mm² and spring-cage connection up to 0.75 mm² 55

CAT5 plug with fast connection 57

SMT and THR base strips for plugs with pierce contact or spring-cage connection 59

Inverted SMT and THR base strips 61

PCB terminal blocks with insulation displacement connection with 2.5 mm pitch 63

Connection cross section up to 0.34 mm² 63

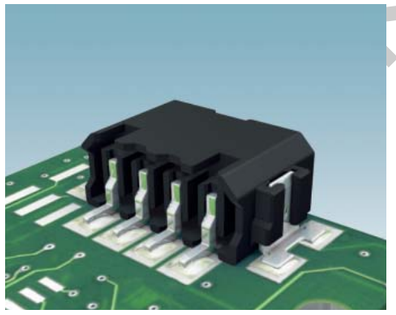
Plugs with displacement connection, 2.0 to 2.54 mm pitch 65

Plugs with displacement connection up to 0.5 mm² 65

Single and four-row headers for wave soldering and SMD processes 67

Bus connectors with connection cross section up to 0.75 mm² 69

Reflow and SMT soldering processes



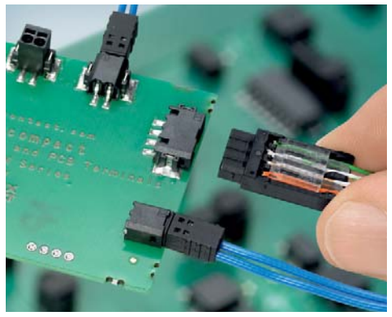
With its new COMBICON HD series, Phoenix Contact offers products that are specially tailored to THR and SMT soldering processes. The base strips and PCB terminal blocks in the COMBICON HD series are made from high-temperature-resistant material and are packed in taped form as standard. For terminal blocks with horizontal conductor connection, the suction area is located directly on the top of the housing. Versions with vertical conductor connection are equipped with a suction pad to enable automatic mounting.

Possible applications



Due to their size, the products in the COMBICON HD series are ideal for all applications where space is limited. Since these terminal blocks can be mounted with other SMD components in a single step, further cost savings are made through additional selective soldering processes. Thanks to the SMT technology, the terminal blocks are particularly suitable for metal core PCBs, such as those used in LED lighting technology. The conventional field of application for CIOC miniature plug-in connectors is the networking of sensors and actuators with the controller. With the aid of link plugs, data can be transmitted safely to the PLC or to the field via bus cables.

Quick and easy wiring



All products in the COMBICON HD series can be connected quickly and easily by means of push-in spring-cage, insulation displacement or pierce technology. The user therefore saves a lot of time during wiring.

COMBICON HD PCB terminal blocks and plug-in connectors with spring-cage connection support the tool-free connection of solid conductors and conductors with ferrules. A screwdriver can be used to open the clamping space via the integrated release shaft.

Plug-in connector versions with pierce connection do not require conductor pretreatment. When the cover is closed, the pierce metal penetrates the conductor insulation and thereby makes contact.

Basics of data transmission

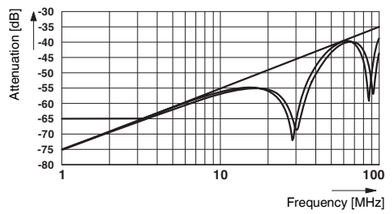
Physical principles must be observed for the transmission of data via copper cables. It is not possible to transmit a signal from one end of a cable to the other without any loss. The dependence on various transmission parameters, such as capacitive and inductive influences and contact resistance, is too great. In order to classify their level of performance, they are split into various categories (CAT1 to CAT7). By determining the near end crosstalk attenuation and reflection loss it is possible to check a cable or plug-in connector's level of performance during data transmission.

Near end crosstalk (NEXT) reveals how greatly the signals of two adjacent wire pairs influence one another. If various signals are transmitted via different twisted wire pairs in a cable, crosstalk and therefore mutual signal interference can occur. The higher the near end crosstalk, the better the transmission quality.

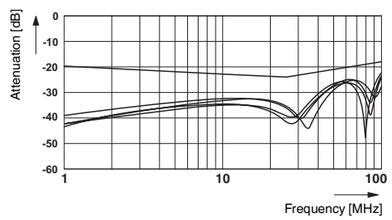
The return loss indicates to what extent a signal is reflected in a cable. Signal reflection can occur if there are disturbances on the transmission path, such as unevenness in the cable or the transition between the cable and plug-in connector. The higher the return loss, the lower the signal reflection and the better the transmission quality.

The two diagrams illustrate the near end crosstalk and the reflection loss of a PTPM plug-in connector with an Ethernet cable.

The top curve is the limiting curve. As long as the characteristic curve for the components to be tested is below this curve, the requirements of category 5 are met.



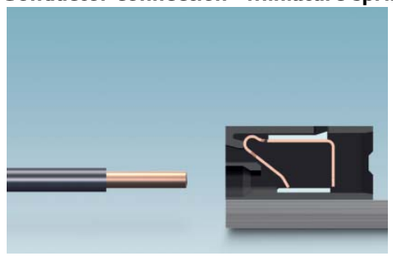
Near end crosstalk attenuation for PTPM plug with Ethernet cable



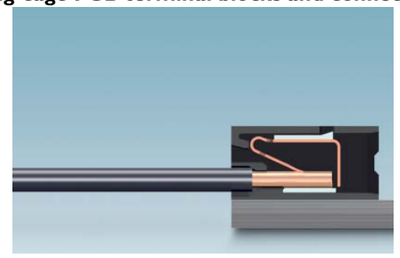
Reflection loss for PTPM plug with Ethernet cable

High density PCB terminal blocks and plug-in connectors
COMBICON High Density general

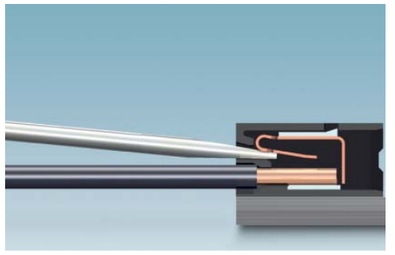
Conductor connection - miniature spring-cage PCB terminal blocks and connectors in the PTSM series



Strip conductor and connect solid conductor by means of direct plug-in technology. When connecting stranded conductors, the terminal point should be opened. To do this, insert a screwdriver in the opening above the cable entry funnel.

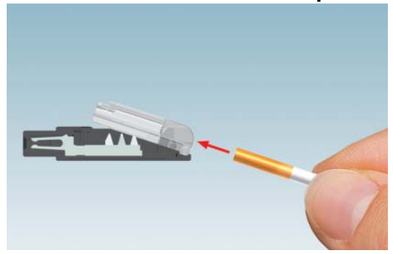


The conductor is connected and the terminal block is ready for operation.

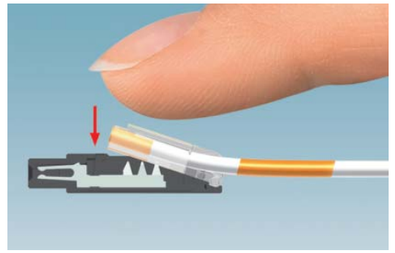


To release the conductor, insert the screwdriver in the opening above the cable entry funnel and remove the conductor.

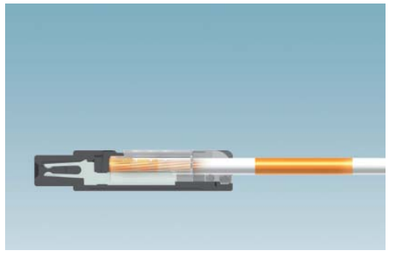
Conductor connection - PTPM pierce contact connector



Insert the untreated conductor in the terminal block diagonally from below.



Slide the conductor through the cover so that it is flush with the cover. Now close the cover.

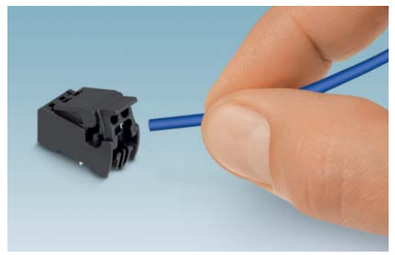


The conductor is connected. The pierce contacts have penetrated the conductor insulation and a gas-tight connection has been established.

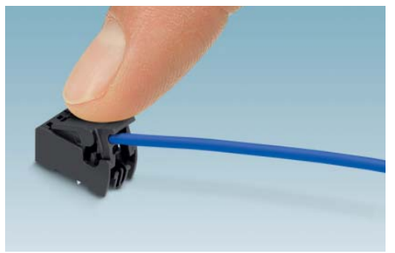
Conductor connection - PTQ miniature IDC terminal block



By default, the terminal block is closed in order to enable automatic assembly. Open the cover up before connecting the conductor.



Insert the untreated conductor in the terminal block cover until it is visible in the housing cutout.



Press down on the cover to close the terminal block. The insulation displacement contacts thus cut through the insulation.

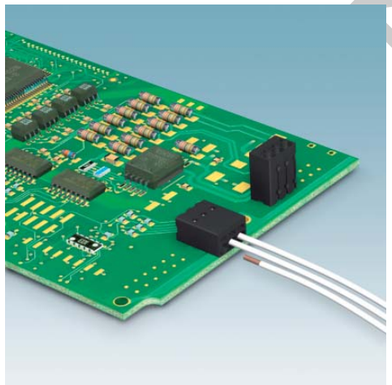
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High density PCB terminal blocks and plug-in connectors
COMBICON High Density cross-reference list

COMBICON HD plugs	Type	Pitch	COMBICON HD headers PTSM...HH THR Page 59	PTSM...HV THR Page 59	PTSM...HH SMD Page 59	CIOC...F Page 65	CIOC...FL Page 65	CIOC...FV-A Page 67	CIOC...FV Page 67		CIOC....FH-SMD Page 67	CIOC...LIH Page 69	CIOC...LIV Page 69	CIOC...LI Page 69
		Pitch	2.5	2.5	2.5	2.0	2.0	2.0	2.0		2.0	2.54	2.54	2.54
	PTPM 0,2/...-P-2,5 Page 55	2.5	•	•	•									
	PTPM 0,4/...-P-2,5 Page 55	2.5	•	•	•									
	PTSM 0,5/...-P-2,5 Page 55	2.5	•	•	•									
	PTSM 0,5/...-HHI-2,5-THR Page 61	2.5	•	•	•									
	PTSM 0,5/...-HHI-2,5-SMD Page 61	2.5	•	•	•									
	CIOC...M Page 65	2.0				•	•	•	•		•			
	CIOC...LI Page 69	2.54										•	•	•

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THR spring-cage PCB terminal blocks up to 0.75 mm²



- Compact low-profile THR print terminal block, pitch 2.5 mm
- Spring-cage connection using direct plug-in method with a release button
- High current carrying capacity for high power transmission
- Double solder pins for stable hold on PCB
- Specifically designed for use in reflow/solder processes
- Supplied in tape-on-reel packing according to IEC 60286-3 for automated mounting

Notes:

Pick and place pads for taped THR articles usually protrude beyond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of tape reels and place pads can be found online at **www.phoenixcontact.net/products**.

PTSM is also available with white housings, see page 391.

Observe derating curve.

1) Stranded conductor cross section of up to 0.75 mm² supported, for a rated insulation voltage of 32 V for III/2.

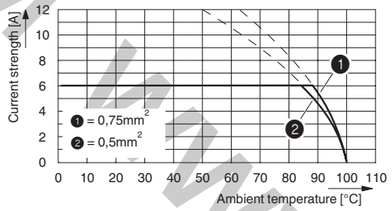
2) Applies for single-phase networks.

Accessories

For all types	Type	Page
	Screwdriver **SZS 0,4 X 2,0 Order No. 1205202**	
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm² **CRIMPFOX 6 Order No. 1212034**	

Current carrying capacity curve

Type: PTSM 0,5/...-2,5-H- THR R...
Tested in accordance with DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5



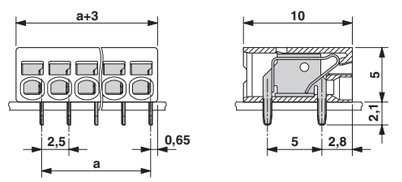


Horizontal PCB terminal block for THR applications

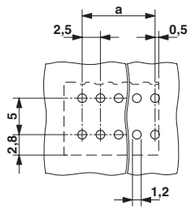


Vertical PCB terminal block for THR applications

Dimensional drawing

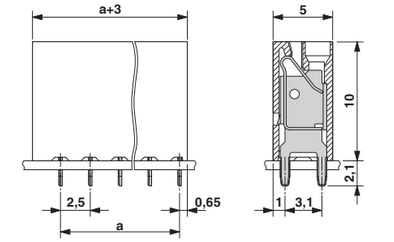


Drilling diagram

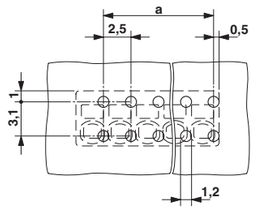


No. of pos.	Dim. a [mm]
2	2.50
3	5.00
4	7.50
5	10.00
6	12.50
7	15.00
8	17.50

Dimensional drawing



Drilling diagram



Technical data

		PTSM 0,5/...-2,5-H THR R24			PTSM 0,5/...-2,5-V THR R44		
Technical data in accordance to IEC / DIN VDE							
Rated current / conductor cross section	[A] / [mm²]	6 / 0.5			6 / 0.5		
Rated insulation voltage for pollution degree 2	[V]	200²)			200²)		
Pitch	[mm]	2.5			2.5		
Connection capacity							
Solid / stranded	[mm²] / [mm²] / AWG	0.14 - 0.5 / 0.2 - 0.5 / 24 - 20¹)			0.14 - 0.5 / 0.2 - 0.5 / 24 - 20¹)		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 0.5			0.25 - 0.5		
Stranded with ferrules with plastic sleeve	[mm²]	-			-		
Multi-conductor connection capacity (two conductors with the same cross section)							
Solid / stranded	[mm²]	- / -			- / -		
Stranded with ferrules without plastic sleeve	[mm²]	-			-		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	-			-		
Insulation coordination							
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	63	200²)	200	63	200²)	200
Rated surge voltage	[kV]	2.5	2.5	2.5	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	150	-	-	150	-	-
Nominal current	[A]	5	-	-	5	-	-
Connection capacity AWG	AWG	26 - 20	-	-	26 - 20	-	-
Approval data (CSA)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-
General data							
Stripping length	[mm]	6			6		
Type of insulation material / insulation material group		LCP / IIIa			LCP / IIIa		
Inflammability class according to UL 94		V0			V0		
Drill hole diameter / pin dimensions	[mm]	1.2 / 0,3 x 0,8 mm			1.2 / 0,3 x 0,8 mm		

Ordering data

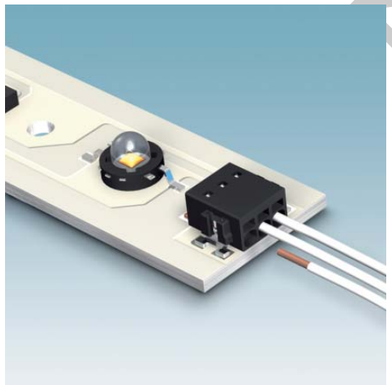
Type	Order No.	Pcs. / Pkt.
2.5 mm pitch, color: black		
PTSM 0,5/ 2-2,5-H THR R24	**1770885**	530
PTSM 0,5/ 3-2,5-H THR R32	**1770898**	530
PTSM 0,5/ 4-2,5-H THR R32	**1770908**	530
PTSM 0,5/ 5-2,5-H THR R32	**1770911**	530
PTSM 0,5/ 6-2,5-H THR R32	**1770924**	530
PTSM 0,5/ 7-2,5-H THR R32	**1770937**	530
PTSM 0,5/ 8-2,5-H THR R32	**1770940**	530

Ordering data

Type	Order No.	Pcs. / Pkt.
2.5 mm pitch, color: black		
PTSM 0,5/ 2-2,5-V THR R44	**1770953**	310
PTSM 0,5/ 3-2,5-V THR R44	**1770966**	310
PTSM 0,5/ 4-2,5-V THR R44	**1770979**	310
PTSM 0,5/ 5-2,5-V THR R44	**1770982**	310
PTSM 0,5/ 6-2,5-V THR R44	**1770995**	310
PTSM 0,5/ 7-2,5-V THR R44	**1771004**	310
PTSM 0,5/ 8-2,5-V THR R44	**1771017**	310

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SMD spring-cage PCB terminal blocks up to 0.75 mm²



- Compact low-profile SMD print terminal block, pitch 2.5 mm
- Spring-cage connection using direct plug-in method with a release button
- High current carrying capacity for high power transmission
- Rugged soldering anchors for safe mechanical fastening on the surface
- Specially designed to be used in pure SMT processes
- Supplied in tape-on-reel packing according to IEC 60286-3 for automated mounting

Notes:

Pick and place pads for taped THR articles usually protrude beyond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of tape reels and place pads can be found online at **www.phoenixcontact.net/products**.

PTSM is also available with white housings, see page 393.

Observe derating curve.

¹) Stranded conductor cross section of up to 0.75 mm² supported, for a rated insulation voltage of 32 V for III/2.

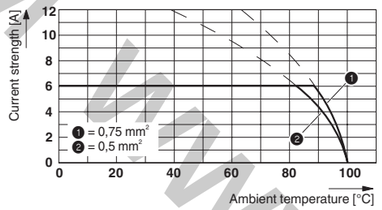
²) Applies for single-phase networks.

Accessories

For all types	Type	Page
	Screwdriver **SZS 0,4 X 2,0 Order No. 1205202**	
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm² **CRIMPFOX 6 Order No. 1212034**	

Current carrying capacity curve

Type: PTSM 0,5/...-2,5-H- SMD R44
Tested in accordance with DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5



No. of pos.	Dim. a [mm]
2	2.50
3	5.00
4	7.50
5	10.00
6	12.50
7	15.00
8	17.50

Technical data

		PTSM 0,5/ ...-2,5-H SMD R24			PTSM 0,5/ ...-2,5-V SMD R44		
Technical data in accordance to IEC / DIN VDE							
Rated current / conductor cross section	[A] / [mm²]	6 / 0.5			6 / 0.5		
Rated insulation voltage for pollution degree 2	[V]	160²)			160²)		
Pitch	[mm]	2.5			2.5		
Connection capacity							
Solid / stranded	[mm²] / [mm²] / AWG	0.14 - 0.5 / 0.2 - 0.5 / 24 - 20¹)			0.14 - 0.5 / 0.2 - 0.5 / 24 - 20¹)		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 0.5			0.25 - 0.5		
Stranded with ferrules with plastic sleeve	[mm²]	-			-		
Multi-conductor connection capacity (two conductors with the same cross section)							
Solid / stranded	[mm²]	- / -			- / -		
Stranded with ferrules without plastic sleeve	[mm²]	-			-		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	-			-		
Insulation coordination							
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	32	160²)	160	32	160²)	160
Rated surge voltage	[kV]	2.5	2.5	2.5	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	150	-	-	150	-	-
Nominal current	[A]	5	-	-	5	-	-
Connection capacity AWG	AWG	26 - 20	-	-	26 - 20	-	-
Approval data (CSA)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-
General data							
Stripping length	[mm]	6			6		
Type of insulation material / insulation material group		LCP / IIIa			LCP / IIIa		
Inflammability class according to UL 94		V0			V0		

High density PCB terminal blocks and plug-in connectors
PCB terminal blocks and connectors with 2.5 mm pitch

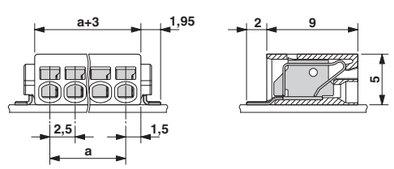


Horizontal PCB terminal block for SMD applications



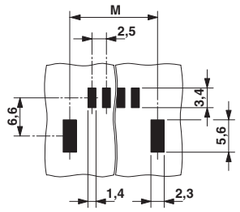
Vertical PCB terminal block for SMD applications

Dimensional drawing



Drilling diagram

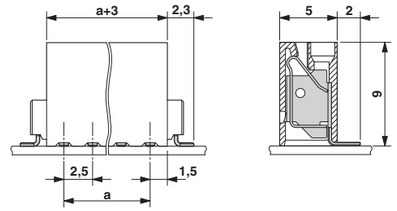
Dimension M: 7.7 mm



Ordering data

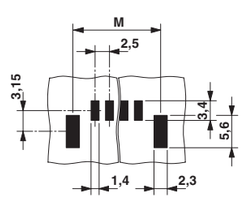
Type	Order No.	Pcs. / Pkt.
2.5 mm pitch, color: black		
PTSM 0,5/ 2-2,5-H SMD R24	**1702473**	770
PTSM 0,5/ 3-2,5-H SMD R44	**1771033**	770
PTSM 0,5/ 4-2,5-H SMD R24	**1702474**	770
PTSM 0,5/ 5-2,5-H SMD R44	**1771059**	770
PTSM 0,5/ 6-2,5-H SMD R44	**1771062**	770
PTSM 0,5/ 7-2,5-H SMD R44	**1771075**	770
PTSM 0,5/ 8-2,5-H SMD R44	**1771088**	770

Dimensional drawing



Drilling diagram

Dimension M: 8.4 mm

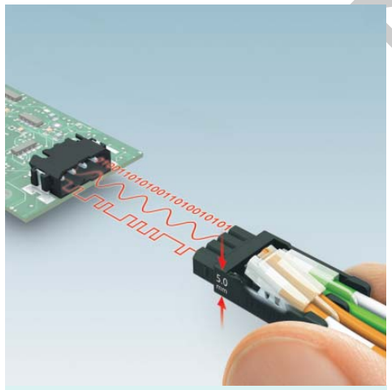


Ordering data

Type	Order No.	Pcs. / Pkt.
2.5 mm pitch, color: black		
PTSM 0,5/ 2-2,5-V SMD R44	**1771091**	400
PTSM 0,5/ 3-2,5-V SMD R44	**1771101**	400
PTSM 0,5/ 4-2,5-V SMD R44	**1771114**	400
PTSM 0,5/ 5-2,5-V SMD R44	**1771127**	400
PTSM 0,5/ 6-2,5-V SMD R44	**1771130**	400
PTSM 0,5/ 7-2,5-V SMD R44	**1771143**	400
PTSM 0,5/ 8-2,5-V SMD R44	**1771156**	400

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Connector with pierce contact up to 0.34 mm² and spring-cage connectors up to 0.75 mm²



- Miniature connector with 2.5 mm pitch
- Can be plugged into THR and SMD headers
- Spring-cage and pierce contact technology
- Conductor connection up to 0.75 mm²
- High current carrying capacity up to 6 A

Notes:
Do not use ferrules with Pierce connectors.
COMBICON select You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 48.
1) Stranded conductor cross section of up to 0.75 mm² supported, for a rated insulation voltage of 32 V for III/2.

Accessories

For all types	Type	Page
For PTSM connectors only		
	Screwdriver **SZS 0,4 X 2,0** **Order No.** **1205202**	
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm² **CRIMPFOX 6** **Order No.** **1212034**	

Technical data

		PTPM 0,2/...-P-2,5			PTPM 0,4/...-P-2,5			PTSM 0,5/ ...-P-2,5		
Technical data in accordance to IEC / DIN VDE										
Rated current / conductor cross section	[A] / [mm²]	2 / 0.14			4 / 0.34			6 / 0.5		
Rated insulation voltage for pollution degree 2	[V]	160			125			160		
Pitch	[mm]	2.5			2.5			2.5		
Connection capacity										
Solid / stranded	[mm²] / [mm²] / AWG	- / 0.14 - 0.14 / 26 - 26			- / 0.25 - 0.34 / 24 - 22			0.14 - 0.5 / 0.2 - 0.5¹) / 24 - 20		
Insulation coordination										
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	40	160	160	32	125	125	100	160	320
Rated surge voltage	[kV]	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	50	-	50	50	-	50	150	-	-
Nominal current	[A]	2	-	2	3	-	3	5	-	-
Connection capacity AWG	AWG	26	-	26	24 - 22	-	24 - 22	26 - 20	-	-
Approval data (CSA)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-	-	-	-
General data										
Type of insulation material / insulation material group		PA/PC / III			PA/PC / III			PA / I		
Inflammability class according to UL 94		V0/V2			V0/V2			V0		

No. of pos.	Dim. a [mm]
2	2.50
3	5.00
4	7.50
5	10.00
6	12.50
7	15.00
8	17.50
10	22.50

High density PCB terminal blocks and plug-in connectors
PCB terminal blocks and connectors with 2.5 mm pitch

N



Pierce contact connector for conductor cross sections up 0.14 mm²/26 AWG

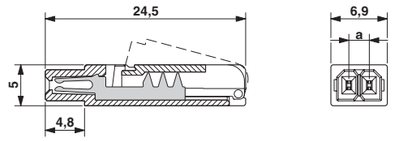


Pierce contact connector for conductor cross sections up 0.34 mm²/24 - 22 AWG

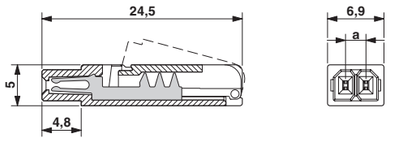


Spring-cage plug for conductor cross sections up to 0.75 mm²

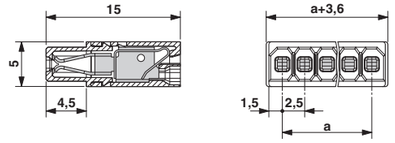
Dimensional drawing



Dimensional drawing



Dimensional drawing



Ordering data

Type	Order No.	Pcs. / Pkt.
PTPM 0,2/ 2-P-2,5	**1780477**	250
PTPM 0,2/ 4-P-2,5	**1780480**	250
PTPM 0,2/ 6-P-2,5	**1780493**	100
PTPM 0,2/ 8-P-2,5	**1780503**	100
PTPM 0,2/10-P-2,5	**1780516**	50

Ordering data

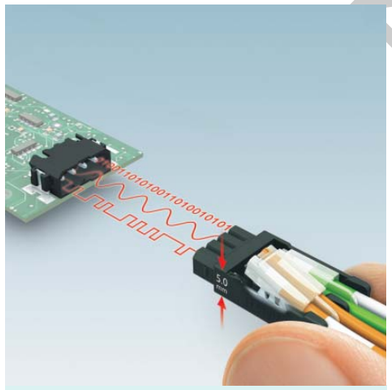
Type	Order No.	Pcs. / Pkt.
PTPM 0,4/ 2-P-2,5	**1780529**	250
PTPM 0,4/ 4-P-2,5	**1780532**	250
PTPM 0,4/ 6-P-2,5	**1780545**	100
PTPM 0,4/ 8-P-2,5	**1780558**	100
PTPM 0,4/10-P-2,5	**1780561**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
PTSM 0,5/ 2-P-2,5	**1778832**	250
PTSM 0,5/ 3-P-2,5	**1778845**	250
PTSM 0,5/ 4-P-2,5	**1778858**	250
PTSM 0,5/ 5-P-2,5	**1778861**	100
PTSM 0,5/ 6-P-2,5	**1778874**	100
PTSM 0,5/ 7-P-2,5	**1778887**	100
PTSM 0,5/ 8-P-2,5	**1778890**	100

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CAT5 plug with fast connection



- 4-pos. miniature plug with 2.5 mm pitch
- CAT5 Ethernet-capable according to IEC 11801
- Paired fast connection
- Tool-free conductor connection
- Can be combined with 5-pos. THR and SMD base strips of types PTSM 0,5/5...

Accessories

For all types	Type	Page
	Base strip PTSM 0,5/ 5-HH-2,5-THR R32 **Order No. 1778654**	59
	Base strip PTSM 0,5/ 5-HV-2,5-THR R32 **Order No. 1778586**	59
	Base strip PTSM 0,5/ 5-HH-2,5-SMD R32 **Order No. 1778793**	59

Technical data

		PTPM 0,2/ 5-P-2,5 PA CAT5			PTPM 0,4/ 5-P-2,5 PA CAT5		
Technical data in accordance to IEC / DIN VDE							
Rated current / conductor cross section	[A] / [mm²]	2 / 0.14			4 / 0.34		
Rated insulation voltage for pollution degree 2	[V]	160			125		
Pitch	[mm]	2.5			2.5		
Connection capacity							
Solid / stranded	[mm²] / [mm²] / AWG	- / 0.14 - 0.14 / 26 - 26			- / 0.25 - 0.34 / 24 - 22		
Insulation coordination							
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	40	160	160	32	125	125
Rated surge voltage	[kV]	2.5	2.5	2.5	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	50	-	50	50	-	50
Nominal current	[A]	2	-	2	3	-	3
Connection capacity AWG	AWG	26	-	26	24 - 22	-	24 - 22
Approval data (CSA)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-
General data							
Type of insulation material / insulation material group		PA/PC / III			PA/PC / III		
Inflammability class according to UL 94		V0/V2			V0/V2		

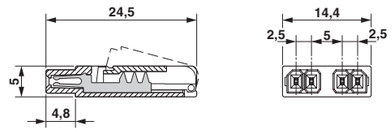


Pierce connection of conductor cross sections of 0.14 mm²/26 AWG

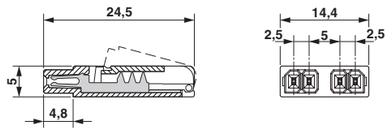


Pierce connection of conductor cross sections from 0.25 to 0.34 mm²/24 - 22 AWG

Dimensional drawing



Dimensional drawing



No. of pos.
4

Ordering data

Type	Order No.	Pcs. / Pkt.
2.5 mm pitch, color: black		
PTPM 0,2/ 5-P-2,5 PA CAT5	**1811161**	100

Ordering data

Type	Order No.	Pcs. / Pkt.
2.5 mm pitch, color: black		
PTPM 0,4/ 5-P-2,5 PA CAT5	**1811145**	100

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SMT and THR headers for pierce contact or spring-cage connectors



- Specifically designed for use in reflow and SMT processes
- High current carrying capacity of 6 A
- Rugged soldering anchors for safe mechanical fastening on the surface
- Supplied in tape-on-reel packing according to IEC 60286-3 for automated mounting
- Compatible with PTSM...-/PTPM...connectors
- Versions with and without positioning pins are available
- 2.5 mm pitch

Notes:
COMBICON select You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 48.
Pick and place pads for taped THR articles usually protrude beyond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of tape reels and place pads can be found online at **www.phoenixcontact.net/products**.
PTSM is also available with white housings, see page 397.
1) UL/CUL on request.
2) Current carrying dependent upon connector used.
3) Applies for single-phase networks.

Technical data

		PTSM 0,5/ ...-HH-2,5-THR R16			PTSM 0,5/ ...-HV-2,5-THR R32			PTSM 0,5/ ...-HH0-2,5-SMD R32		
Technical data in accordance to IEC / DIN VDE										
Rated current	[A]	6[2])			6[2])			6		
Rated insulation voltage for pollution degree 2	[V]	160[3])			160[3])			160[3])		
Pitch	[mm]	2.5			2.5			2.5		
Insulation coordination										
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	50	160[3])	160	50	160[3])	160	50	160[3])	160
Rated surge voltage	[kV]	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	150	-	-	150	-	-	-	-	-
Nominal current	[A]	6	-	-	6	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-	-	-	-
Approval data (CSA)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-	-	-	-
General data										
Type of insulation material / insulation material group		LCP / IIIa			LCP / IIIa			LCP / IIIa		
Inflammability class according to UL 94		V0			V0			V0		
Drill hole diameter / pin dimensions	[mm]	1.1 / 0,6 x 0,6 mm			1.1 / 0,6 x 0,6 mm			- / -		

No. of pos.	Dim. a [mm]
2	2.50
3	5.00
4	7.50
5	10.00
6	12.50
7	15.00
8	17.50
10	22.50



Horizontal header for THR applications



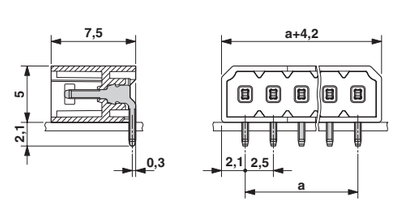
Vertical header for THR applications



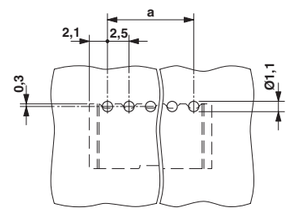
Horizontal header for SMD applications

Applied for: cUL / UL

Dimensional drawing



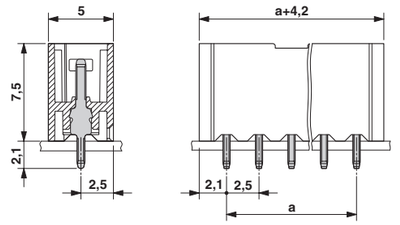
Drilling diagram



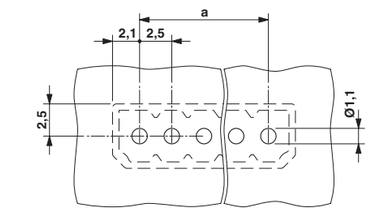
Ordering data

Type	Order No.	Pcs. / Pkt.
2.5 mm pitch, color: black, without positioning pin, with positioning pin, see www.phoenixcontact.net/products		
PTSM 0,5/ 2-HH-2,5-THR R16	**1778625**	500
PTSM 0,5/ 3-HH-2,5-THR R32	**1778638**	500
PTSM 0,5/ 4-HH-2,5-THR R32	**1778641**	500
PTSM 0,5/ 5-HH-2,5-THR R32	**1778654**	500
PTSM 0,5/ 6-HH-2,5-THR R32	**1778667**	500
PTSM 0,5/ 7-HH-2,5-THR R44	**1778670**	500
PTSM 0,5/ 8-HH-2,5-THR R44	**1778683**	500
PTSM 0,5/10-HH-2,5-THR R44	**1701569**	500

Dimensional drawing



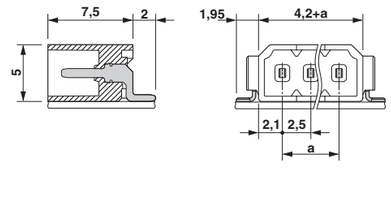
Drilling diagram



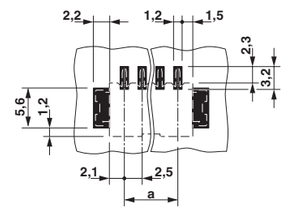
Ordering data

Type	Order No.	Pcs. / Pkt.
2.5 mm pitch, color: black, without positioning pin, with positioning pin, see www.phoenixcontact.net/products		
PTSM 0,5/ 2-HV-2,5-THR R32	**1778557**	330
PTSM 0,5/ 3-HV-2,5-THR R32	**1778560**	330
PTSM 0,5/ 4-HV-2,5-THR R32	**1778573**	330
PTSM 0,5/ 5-HV-2,5-THR R32	**1778586**	330
PTSM 0,5/ 6-HV-2,5-THR R32	**1778599**	330
PTSM 0,5/ 7-HV-2,5-THR R44	**1778609**	330
PTSM 0,5/ 8-HV-2,5-THR R44	**1778612**	330
PTSM 0,5/10-HV-2,5-THR R44	**1701567**	330

Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
2.5 mm pitch, color: black, without positioning pin, with positioning pin, see www.phoenixcontact.net/products		
PTSM 0,5/ 2-HH0-2,5-SMD R32	**1808190**	600
PTSM 0,5/ 3-HH0-2,5-SMD R32	**1808200**	600
PTSM 0,5/ 4-HH0-2,5-SMD R32	**1808213**	600
PTSM 0,5/ 5-HH0-2,5-SMD R32	**1808226**	600
PTSM 0,5/ 6-HH0-2,5-SMD R44	**1808239**	600
PTSM 0,5/ 7-HH0-2,5-SMD R44	**1808242**	600
PTSM 0,5/ 8-HH0-2,5-SMD R44	**1808255**	600

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Inverted SMT and THR base strips



- Specifically designed for use in reflow and SMT processes
- High current carrying capacity of 6 A
- Robust solder anchor for secure, mechanical fixing to the surface
- Supplied in tape-on-reel packing according to IEC 60286-3 for automated mounting
- Compatible with PTSM base strips
- Versions with and without positioning pins are available
- 2.5 mm pitch

Notes:
COMBICON select You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 48.
Pick and place pads for taped THR articles usually protrude beyond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of the pick and place pads can be found online at **www.phoenixcontact.net/products**.
PTSM is also available with white housings, see page 399.
[1]) UL/CUL on request.
[2]) Applies for single-phase networks.

Technical data

		PTSM 0,5/...-HHI-2,5-THR R24			PTSM 0,5/...-HHI0-2,5-SMD R24		
Technical data in accordance to IEC / DIN VDE							
Rated current	[A]	6			6		
Rated insulation voltage for pollution degree 2	[V]	200[2])			160[2])		
Pitch	[mm]	2.5			2.5		
Insulation coordination							
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	63	200[2])	200	63	160[2])	160
Rated surge voltage	[kV]	2.5	2.5	2.5	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-
Approval data (CSA)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-
General data							
Type of insulation material / insulation material group		LCP / IIIa			LCP / IIIa		
Inflammability class according to UL 94		V0			V0		
Drill hole diameter / pin dimensions	[mm]	1 / 0,6 x 0,4 mm			- / -		

N

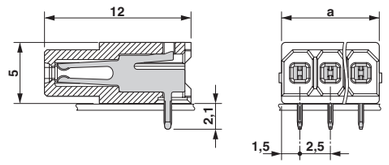


Horizontal inverted header, THR solderable

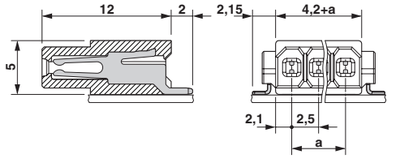


Horizontal inverted header, SMD solderable

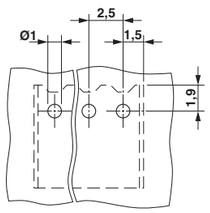
Dimensional drawing



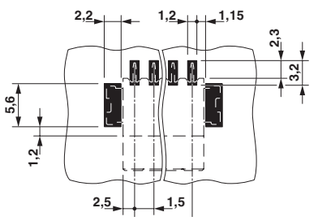
Dimensional drawing



Drilling diagram



Drilling diagram



No. of pos.	Dim. a [mm]
2	2.50
3	5.00
4	7.50
5	10.00
6	12.50
7	15.00
8	17.50

Ordering data

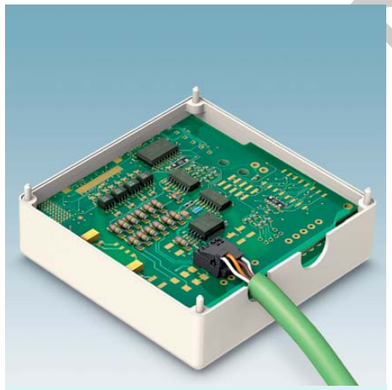
Type	Order No.	Pcs. / Pkt.
2.5 mm pitch, color: black, without positioning pin, with positioning pin, see www.phoenixcontact.net/products		
PTSM 0,5/ 2-HHI-2,5-THR R24	1815057	500
PTSM 0,5/ 3-HHI-2,5-THR R32	1815060	500
PTSM 0,5/ 4-HHI-2,5-THR R32	1815073	500
PTSM 0,5/ 5-HHI-2,5-THR R32	1815086	500
PTSM 0,5/ 6-HHI-2,5-THR R32	1815099	500
PTSM 0,5/ 7-HHI-2,5-THR R32	1815109	500
PTSM 0,5/ 8-HHI-2,5-THR R32	1815112	500

Ordering data

Type	Order No.	Pcs. / Pkt.
2.5 mm pitch, color: black, without positioning pin, with positioning pin, see www.phoenixcontact.net/products		
PTSM 0,5/ 2-HHI0-2,5-SMD R24	1815125	500
PTSM 0,5/ 3-HHI0-2,5-SMD R44	1815138	500
PTSM 0,5/ 4-HHI0-2,5-SMD R44	1815141	500
PTSM 0,5/ 5-HHI0-2,5-SMD R44	1815154	500
PTSM 0,5/ 6-HHI0-2,5-SMD R44	1815167	500
PTSM 0,5/ 7-HHI0-2,5-SMD R44	1815170	500
PTSM 0,5/ 8-HHI0-2,5-SMD R44	1815183	500

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Connection cross section of up to 0.34 mm²



- Conductor connection without pre-treatment.
- 2.5 mm pitch
- THR solderable
- Taped as standard
- Secure locating mechanism
- Option to visually inspect the conductor position
- Supplied in taped packaging according to IEC 60286-3 for automatic assembly
- Anti-rotation pins
- Finger operation, no tools necessary

Notes:

Pick and place pads for taped THR articles usually protrude beyond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of the pick and place pads can be found online at **www.phoenixcontact.net/products**.

Observe derating curve.

Technical data

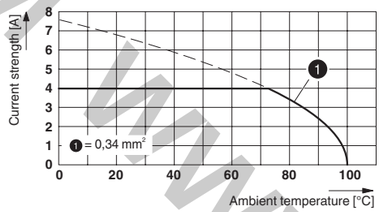
Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	4 / 0.34		
Rated insulation voltage for pollution degree 2	[V]	160		
Pitch	[mm]	2.5		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	0.14 - 0.34 / 0.14 - 0.34 / 26 - 22		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	160	160	200
Rated surge voltage	[kV]	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	150	-	-
Nominal current	[A]	2	-	-
Connection capacity AWG	AWG	24	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		LCP / IIIa		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.1 / 0,9 x 0,4		



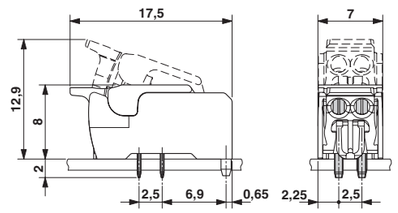
IDC PCB terminal block

Current carrying capacity curve

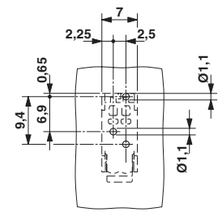
Type: PTQ 0,3/..-2,5(-L) THR R32
Tested in accordance with DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5



Dimensional drawing



Drilling diagram



No. of pos.	Dim. a [mm]
2	2.50

Ordering data

Type	Order No.	Pcs. / Pkt.
PTQ 0,3/ 2-2,5 THR R32	**1702610**	250

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Plugs with displacement connection up to 0.5 mm²



- 3- and 4-pos. miniature connectors
- For sensor/actuator wiring
- Fast and safe displacement connection
- Gold-plated contact system
- Connection of AWG conductors with a 7-strand conductor structure and PVC insulation; other conductor types can be used on request
- Conductor connection with the help of conventional pliers
- Colored, transparent covers enable you to check that the displacement connection has been contacted correctly
- Panel feed-through with CIOC ...-FL
- Additional CIOC 3-2...-FL versions available on request

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 48.

For 3-pos. items, please enquire about the minimum order amount and delivery time.

¹) Different value for CIOC 3-20... and CIOC 4-20... = 24-20 AWG und stranded conductors = 0.25 - 0.5 mm².

Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	3 / 0.25		
Rated insulation voltage for pollution degree 2	[V]	32		
Pitch	[mm]	2		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	- / 0.14 - 0.25 / 26 - 24¹)		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]		32	
Rated surge voltage	[kV]			
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
Approval data (UL/CUL)				
Nominal voltage	[V]		32	
Nominal current	[A]		3	
Connection capacity AWG	AWG		26-20	
General data				
Type of insulation material / insulation material group			PBT/PC / -	
Inflammability class according to UL 94			V0	



Connector with male contact

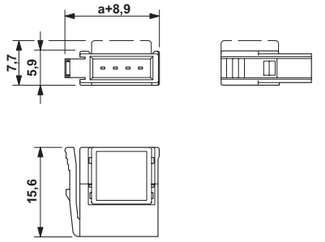


Connector with female contact

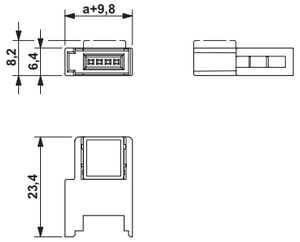


Connector as panel feed-through with female contact

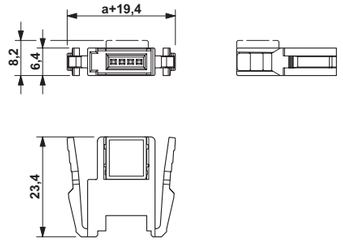
Dimensional drawing



Dimensional drawing



Dimensional drawing



No. of pos.	Dim. a [mm]
3	4.00
4	6.00
3	4.00
4	6.00
3	4.00
4	6.00
3	4.00
4	6.00
3	4.00
4	6.00

Ordering data

Type	Order No.	Pcs. / Pkt.
1.0 mm outside conductor diameter, 26 - 24 AWG, color: red (CIOC 3-... on request)		
CIOC 3-24-1,0-M	1701390	50
CIOC 4-24-1,0-M	1700994	50
1.2 mm outside conductor diameter, 26 - 24 AWG, color: yellow		
CIOC 3-24-1,2-M	1701391	50
CIOC 4-24-1,2-M	1701016	50
1.6 mm outside conductor diameter, 26 - 24 AWG, color: orange (CIOC 3-... on request)		
CIOC 3-24-1,6-M	1701392	50
CIOC 4-24-1,6-M	1701032	50
1.2 mm outside conductor diameter, 24 - 20 AWG, color: green (CIOC 3-... on request)		
CIOC 3-20-1,2-M	1701393	50
CIOC 4-20-1,2-M	1701058	50
1.6 mm outside conductor diameter, 24 - 20 AWG, color: blue (CIOC 3-... on request)		
CIOC 3-20-1,6-M	1701394	50
CIOC 4-20-1,6-M	1701074	50
2.0 mm outside conductor diameter, AWG 24-20, color: transparent		
CIOC 3-20-2,0-M	1701396	50
CIOC 4-20-2,0-M	1701090	50

Ordering data

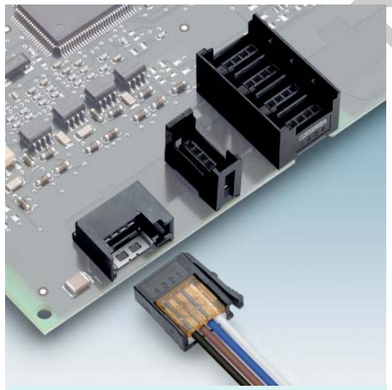
Type	Order No.	Pcs. / Pkt.
1.0 mm outside conductor diameter, 26 - 24 AWG, color: red (CIOC 3-... on request)		
CIOC 3-24-1,0-F	1701397	50
CIOC 4-24-1,0-F	1701113	50
1.2 mm outside conductor diameter, 26 - 24 AWG, color: yellow		
CIOC 3-24-1,2-F	1701398	50
CIOC 4-24-1,2-F	1701139	50
1.6 mm outside conductor diameter, 26 - 24 AWG, color: orange (CIOC 3-... on request)		
CIOC 3-24-1,6-F	1701399	50
CIOC 4-24-1,6-F	1701155	50
1.2 mm outside conductor diameter, 24 - 20 AWG, color: green (CIOC 3-... on request)		
CIOC 3-20-1,2-F	1701400	50
CIOC 4-20-1,2-F	1701171	50
1.6 mm outside conductor diameter, 24 - 20 AWG, color: blue (CIOC 3-... on request)		
CIOC 3-20-1,6-F	1701402	50
CIOC 4-20-1,6-F	1701197	50
2.0 mm outside conductor diameter, AWG 24-20, color: transparent		
CIOC 3-20-2,0-F	1701403	50
CIOC 4-20-2,0-F	1701210	50

Ordering data

Type	Order No.	Pcs. / Pkt.
1.0 mm outside conductor diameter, AWG 26-24, color: red		
CIOC 4-24-1,0-FL	1701236	50
1.2 mm outside conductor diameter, 26 - 24 AWG, color: yellow		
CIOC 4-24-1,2-FL	1701252	50
1.6 mm outside conductor diameter, AWG 26-24, color: orange		
CIOC 4-24-1,6-FL	1701278	50
1.2 mm outside conductor diameter, AWG 24-20, color: green		
CIOC 4-20-1,2-FL	1701294	50
1.6 mm outside conductor diameter, 24 - 20 AWG, color: blue (CIOC 3-... on request)		
CIOC 3-20-1,6-FL	1701404	50
CIOC 4-20-1,6-FL	1701317	50
2.0 mm outside conductor diameter, AWG 24-20, color: transparent		
CIOC 4-20-2,0-FL	1701333	50

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Single and four-row headers for wave soldering and SMD processes



- 3-pos. and 4-pos. CIOC miniature headers for CIOC ...-M connectors
- Gold-plated contact system
- Enables space-saving installation of I/O modules and signal distributors

CIOC 4-1-FH-SMD-B

- Delivery form: Tape-on-reel packing according to IEC 60286-3, reel diameter: 380 mm, tape width: 32 mm

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 48.

Technical data

		CIOC 4-1-FV-A			CIOC 4-4-FV			CIOC 4-1-FH-SMD-B R32		
Technical data in accordance to IEC / DIN VDE										
Rated current	[A]	3			3			3		
Rated insulation voltage for pollution degree 2	[V]	32			32			32		
Pitch	[mm]	2			2			2		
Insulation coordination										
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]		32			32			32	
Rated surge voltage	[kV]									
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-	-	-	-
Approval data (CSA)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-	-	-	-
Approval data (UL/CUL)										
Nominal voltage	[V]		32			32			32	
Nominal current	[A]		3			3			3	
Connection capacity AWG	AWG		-			-			-	
General data										
Type of insulation material / insulation material group			PA / -			PA / -			LCP / IIIa	
Inflammability class according to UL 94			V0			V0			V0	

No. of pos.	Dim. a [mm]
3	4.00
4	6.00



Single-row, for wave soldering processes
Plug-in direction vertical to the PCB

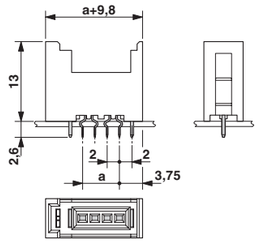


Four-row, for wave soldering processes
Plug-in direction vertical to the PCB

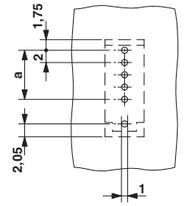


Single-row, taped, for SMD applications, plug-in direction parallel to the PCB

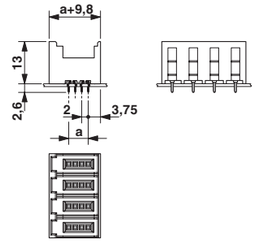
Dimensional drawing



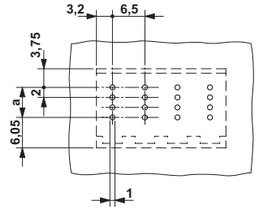
Drilling diagram



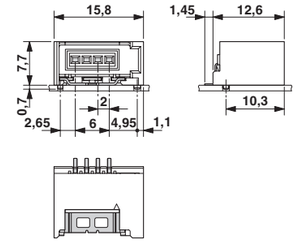
Dimensional drawing



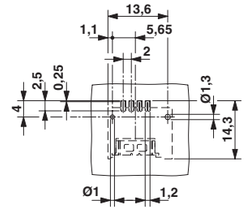
Drilling diagram



Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
2 mm pitch, color: black		
CIOC 3-1-FV-A	**1701551**	100
CIOC 4-1-FV-A	**1701388**	100

Ordering data

Type	Order No.	Pcs. / Pkt.
2 mm pitch, color: black		
CIOC 3-4-FV	**1701552**	50
CIOC 4-4-FV	**1701401**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
2 mm pitch, color: black		
CIOC 4-1-FH-SMD-B R32	**1701322**	400

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Bus connectors up to 0.75 mm² connection cross section



- Supplementing the CIOC connector range with 4-pos. link connector with a 2.54 mm pitch
- Gold-plated contact system
- A plug-in pick-off at any point in the bus and power line can be achieved using two CIOC 4-18-LI plugs
- The CIOC 4-18-LI connector can be combined with the LIH or LIV base strips for a horizontal or vertical PCB connection

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 48.

Pick and place pads for taped THR articles usually protrude beyond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of tape reels and place pads can be found online at **www.phoenixcontact.net/products**.

Technical data

		CIOC 4-18-LI			CIOC 4-1-LIH			CIOC 4-1-LIV		
Technical data in accordance to IEC / DIN VDE										
Rated current / conductor cross section	[A] / [mm²]	5 / 0.75			5			5		
Rated insulation voltage for pollution degree 2	[V]	-			-			-		
Pitch	[mm]	2.54			2.54			2.54		
Connection capacity										
Solid / stranded	[mm²] / [mm²] / AWG	- / - / 18 - 18			- / - / -			- / - / -		
Stranded with ferrules without plastic sleeve	[mm²]	-			-			-		
Stranded with ferrules with plastic sleeve	[mm²]	-			-			-		
Multi-conductor connection capacity (two conductors with the same cross section)										
Solid / stranded	[mm²]	- / -			- / -			- / -		
Stranded with ferrules without plastic sleeve	[mm²]	-			-			-		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	-			-			-		
Insulation coordination										
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	160			160			160		
Rated surge voltage	[kV]									
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-	-	-	-
Approval data (CSA)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-	-	-	-
General data										
Type of insulation material / insulation material group		PA/PBT / -			PBT / -			PBT / -		
Inflammability class according to UL 94		V0			V0			V0		

No. of pos.	Dim. a [mm]
4	7.62



Bus connector

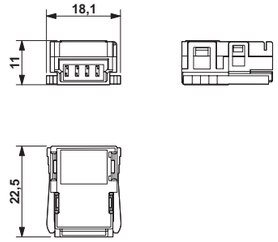


Bus connector header, plug-in direction parallel to the PCB

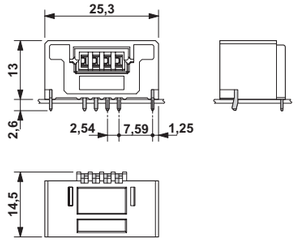


Bus connector header, plug-in direction vertical to the PCB

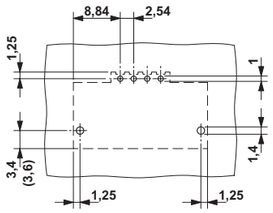
Dimensional drawing



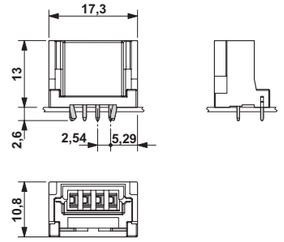
Dimensional drawing



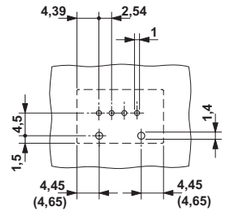
Drilling diagram



Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
Color: Black		
CIOC 4-18-LI	**1701359**	100

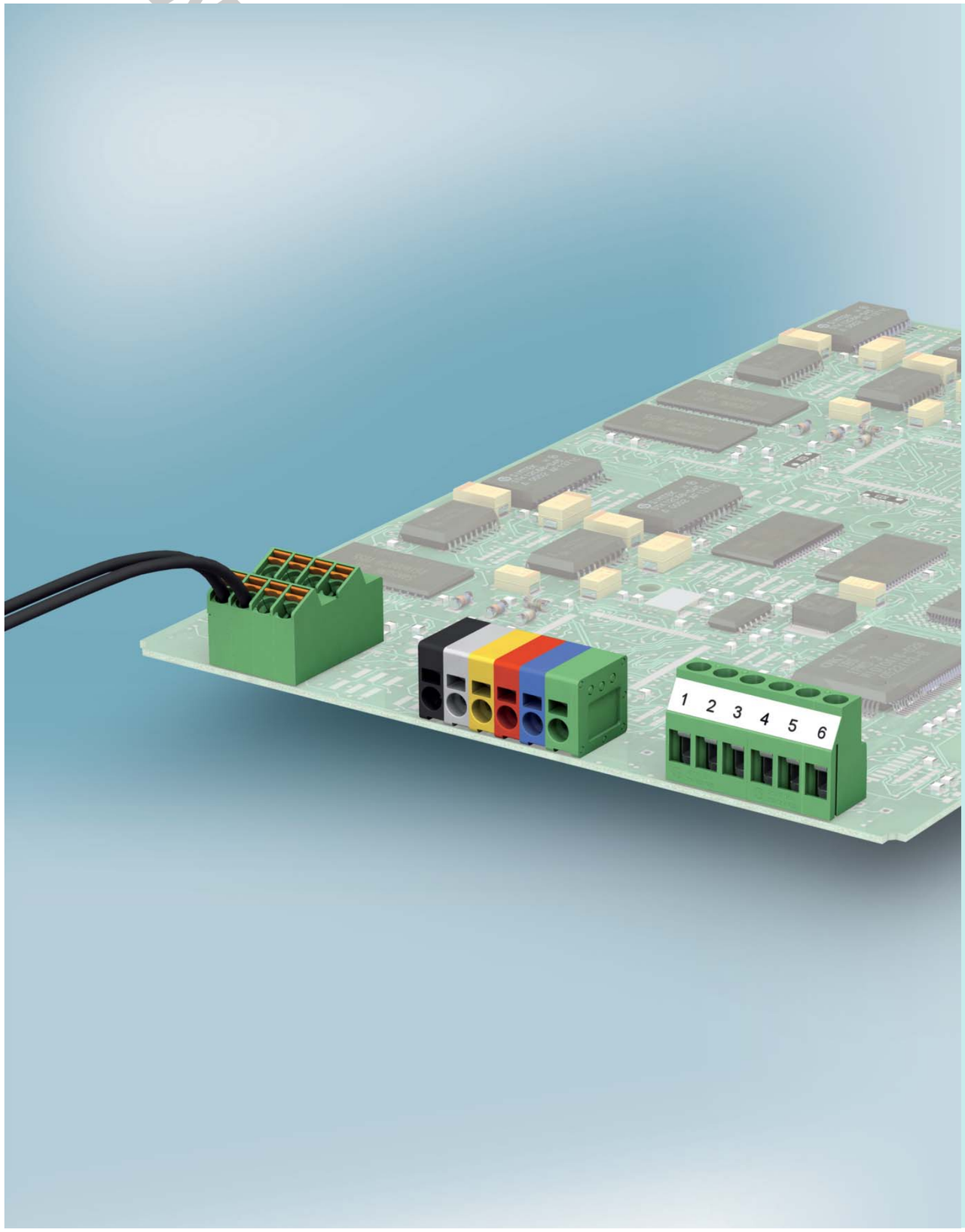
Ordering data

Type	Order No.	Pcs. / Pkt.
Color: Black		
CIOC 4-1-LIH	**1701362**	100

Ordering data

Type	Order No.	Pcs. / Pkt.
Color: Black		
CIOC 4-1-LIV	**1701375**	100

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PCB terminal blocks with 2.54 to 7.62 mm pitch

The diverse applications for PCB terminal blocks in the field of measurement and control technology have resulted in a continually growing product range over the past several years, which meets the requirements of a large number of different devices and associated device specifications.

Whether using modern process interfaces or automation components through to the PLC, you will always find the right connection terminal block for your application in the PCB terminal block range.

The product range offers three connection methods (screw, spring-cage, and insulation displacement connection). Single-level as well as double-, three-, and four-level terminal blocks are available to increase the contact density on the PCB. The screw and spring-cage versions are pin-compatible with each other. As a result, the user can choose between the two connection technologies without having to change the layout, thereby achieving a high level of flexibility in PCB production and reducing costs.

The range offers pitches from 2.54 to 7.62 mm. The terminal blocks are designed for currents up to 41 A and voltages up to 630 V (surge voltage category III/pollution degree 2). Conductor cross sections from 0.08 to 6 mm² can be connected.

When developing PCB terminal blocks, requirements for state-of-the-art production methods for electronic modules are taken into consideration. Products are available for SMT production in the form of PCB terminal blocks for through hole reflow (THR) and SMD assembly. PCB terminal blocks are available with press-in technology for solder-free processing. PCB terminal blocks that are suitable for the reflow process have high-temperature-resistant insulating housing. The various series are also available in bar or tape magazines.

Customer-specific requirements can also be taken into account when producing PCB terminal blocks. For example, the terminal blocks are available with a closed clamping space, as partially assembled versions or in various colors. Please contact us for more information.

General 72

PCB terminal blocks with screw and spring connection for the reflow process, currents up to 24 A, pitch 3.5/3.81/5.0/5.08 mm 75
Connection cross section up to 1.5 mm² 75
Connection cross section up to 2.5 mm² 77
SMD PCB terminal blocks with connection cross section up to 1.5 mm² 82

PCB terminal blocks with screw connection for wave soldering processes, currents up to 24 A, pitch 2.54/3.5/3.81/5.0/5.08 mm 83
Connection cross section up to 0.5 mm² 83
Connection cross section up to 1.5 mm² 85
Connection cross section up to 2.5 mm² 103
Front connection up to 2.5 mm² 114
Single terminal blocks up to 2.5 mm² 117

PCB terminal blocks with screw connection for wave soldering processes, currents up to 41 A, pitch 7.5/7.62 mm 119
Connection cross section up to 1.5 mm² 119
Connection cross section up to 2.5 mm² 123
Single terminal blocks up to 4 mm² 127

PCB terminal blocks with spring-cage connection for wave soldering processes, currents up to 24 A, pitch 3.81/5.0/5.08 mm 129
Connection cross section up to 1.5 mm² 129
Connection cross section up to 2.5 mm² 135

PCB terminal blocks with push-in spring connection for wave soldering processes, currents up to 24 A, pitch 2.54/3.5/3.81/5.0/5.08/7.62 mm 137
Angled conductor connection up to 1.5 mm² 137
Horizontal or vertical conductor connection up to 2.5 mm² 141

With actuation rocker and connection up to 1.5 mm² 145

Connection cross section up to 2.5 mm² 153

PCB terminal blocks with displacement connection for wave soldering processes, currents up to 5 A, pitch 3.81 154
Connection cross section up to 0.34 mm² 154

PCB terminal blocks with screw connection for the Ex area for wave soldering processes 157
Multi-level terminal blocks with connection up to 1.5 mm² 157

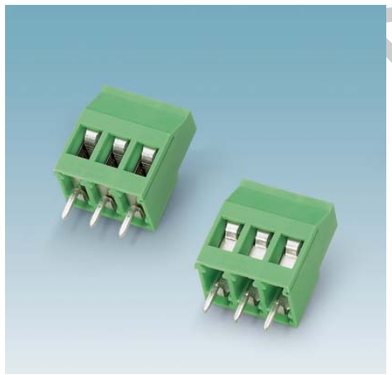
Horizontal or vertical conductor connection up to 2.5 mm² 158

PCB terminal blocks with spring connection for the Ex area for wave soldering processes 161
Angled conductor connection up to 2.5 mm² 161
Horizontal or vertical conductor connection up to 2.5 mm² 163

PCB isolating connectors 164

Flat-type fuse holders 165

Customer-specific standard terminal blocks



PCB terminal blocks with open or closed clamping space

Customer-specific requirements and needs can be taken into account when producing PCB terminal blocks. The terminal blocks are available with a closed clamping space, as partially assembled versions and in various colors.

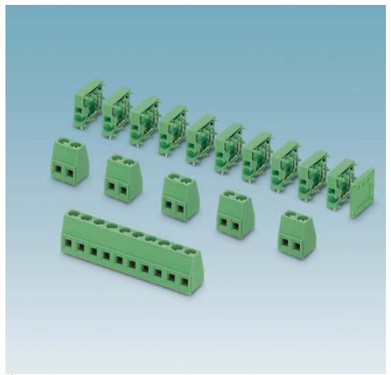
Standard terminal blocks with special functions



Versions with slotted-head and Phillips screws

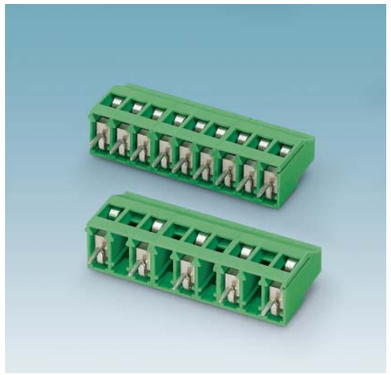
The individual processing of PCB terminal blocks in the soldering process, and even the special features for conductor connection, are taken into account in many product ranges. Here, you can choose between slotted-head and Phillips screws, as well as various solder pin lengths. Please contact us for more information.

PCB terminal blocks with a variable number of positions

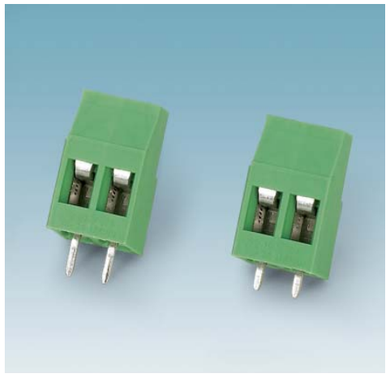


One-piece blocks and single PCB terminal blocks

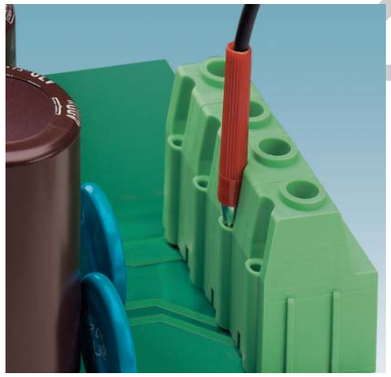
PCB terminal blocks are available in three versions – as a one-piece block, as part blocks or as single terminal blocks.
Part blocks can be assembled into high-position blocks using a keyway/featherkey joint. In the case of single terminal blocks, you can freely determine the number of positions for individual assembly. The row must only be interrupted if the number of positions exceeds 30, in order to compensate possible tolerances between terminal block and PCB.



Fully or partially assembled versions



PCB terminal blocks with long or short solder pin



PCB terminal blocks with integrated test connection

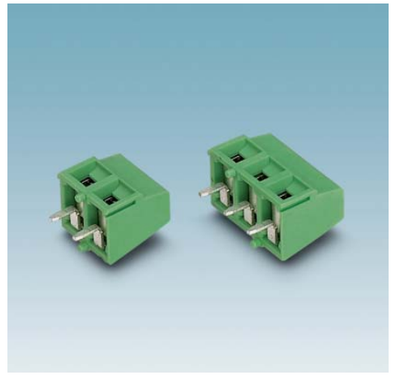
Bridges



Internal bridges

Two methods are available for potential distribution or looping through the ground conductor in PCB terminal blocks. The easiest solution is a separate bridge fixed directly in the connection area, if necessary, with a supply conductor. Internally bridged versions are available in the standard MKDS product range. The entire clamping space is also available here.

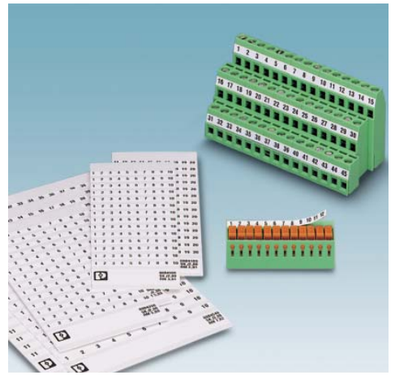
Anti-rotation protection



PCB terminal blocks with anti-rotation pins

2- and 3-pos. terminal blocks in particular are often subjected to high tightening torques, which cannot be absorbed by a few solder pins. Usually these terminal blocks must be supported during conductor connection.
If this is not possible, versions with additional anti-rotation pins are available for many terminal blocks.

Marking



Printing with marker cards

For marking individual terminal points, marker cards (SK strips with consecutive numbers 1 - 10, 11 - 20) are available with 2.5 to 7.62 mm pitch for both single terminal blocks and multi-position PCB terminal blocks bases. Alternatively, the terminal blocks can also be supplied with individual labeling.



Separate fixed bridge



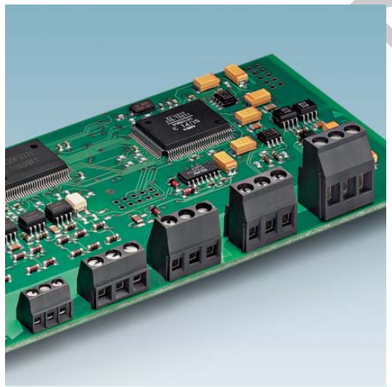
Color versions

Note:

Since the installation environment of the entire PCB cannot be influenced, the specified nominal voltage of all COMBICON PCB terminal blocks refers to the “as-delivered” state. For more detailed information about the dimensioning of air and creepage distances of PCBs, see page 849

PCB terminal blocks with screw and spring-cage connection for the reflow process, currents up to 24 A

Connection cross section of up to 1.5 mm²



- Application in SMT reflow processes
- Standard types of PCB terminal blocks made of high-temperature resistant plastics
- Delivery form: Box packaging - bulk
- Taped packaging in accordance with IEC 60286-3 for automatic assembly on request
- You can find user notes and recommendations for THR procedure on page 27

Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.

¹) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.



Metric 3.5 mm pitch



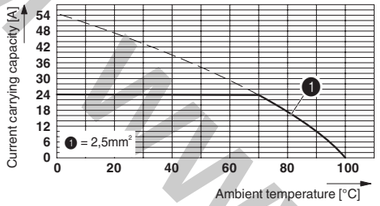
Detection lug for models with 3.81 mm inch pitch

Accessories

For all types	Type	Page
Only for MKDS 1/... HT BK		
	Screwdriver **SZS 0,4 x 2,5 Order No. 1205037**	
	Marker cards **SK 3,5/2,8 or SK 3,81/2,8**	797
Only for MKDSN 1,5/...-HT BK and MKDS 1,5/...HT BK		
	Screwdriver **SZS 0,6 x 3,5 Order No. 1205053**	
	Insertion bridge **EBP...- 5**	829
	Marker cards **SK 5/3,8 orSK 5,08/3,8**	798

Current carrying capacity curve

Type: MKDS 1,5/...-HT BK
Test as per DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5



Technical data

		MKDS 1/ ...HT BK			MKDSN 1,5/ ... HT BK			MKDS 1,5/ ... HT BK		
Technical data in accordance to IEC / DIN VDE										
Rated current / conductor cross section	[A] / [mm²]	13.5¹) / 1.5			13.5¹) / 1.5			17.5¹) / 2.5		
Rated insulation voltage for pollution degree 2	[V]	200			320			320		
Pitch	[mm]	3.5 / 3.81			5 / 5.08			5 / 5.08		
Connection capacity										
Solid / stranded	[mm²] / [mm²] / AWG	0.14 - 1.5 / 0.14 - 1.5 / 26 - 16			0.14 - 1.5 / 0.14 - 1.5 / 26 - 16			0.14 - 2.5 / 0.14 - 1.5 / 26 - 14		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 0.5			0.25 - 1			0.25 - 1.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 0.5			0.25 - 1.5			0.25 - 1.5		
Multi-conductor connection capacity (two conductors with the same cross section)										
Solid / stranded	[mm²]	0.14 - 0.5 / 0.14 - 0.34			0.14 - 0.75 / 0.14 - 0.75			0.14 - 1 / 0.14 - 0.75		
Insulation coordination										
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	63	200	200	200	320	320	200	320	320
Rated surge voltage	[kV]	2.5	2.5	2.5	4	4	4	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	300	-	300	300	-	300	300	-	300
Nominal current	[A]	10	-	10	10	-	10	15	-	10
Connection capacity AWG	AWG	30 - 16	-	30 - 16	30 - 14	-	30 - 14	30 - 14	-	30 - 14
Approval data (CSA)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	150	-	300	-	-	-	-	-	-
Nominal current	[A]	10	-	10	-	-	-	-	-	-
Connection capacity AWG	AWG	28 - 16	-	28 - 16	-	-	-	-	-	-
General data										
Stripping length	[mm]	5			6			7		
Screw thread		M2			M3			M3		
Tightening torque	[Nm]	0.22 - 0.25			0.5 - 0.6			0.5 - 0.6		
Type of insulation material / insulation material group		PA / IIIa			PA / IIIa			PA / IIIa		
Inflammability class according to UL 94		V0			V0			V0		
Drill hole diameter / pin dimensions	[mm]	1.1 / 0,5 x 0,9 mm			1.3 / 0,5 x 1 mm			1.3 / 0,9 x 0,9 mm		

No. of pos.	Dim. a [mm]
2	3.50
3	7.00
2	3.81
3	7.62
2	5.00
3	10.00
2	5.08
3	10.16

PCB terminal blocks with 2.54 to 7.62 mm pitch

PCB terminal blocks with screw and spring-cage connection for the reflow process, currents up to 24 A



Without housing overlapping

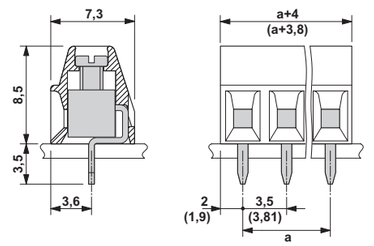


With housing overlapping, Low-profile design

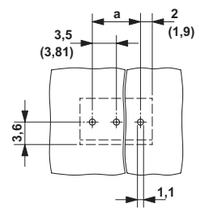


With housing overlapping

Dimensional drawing



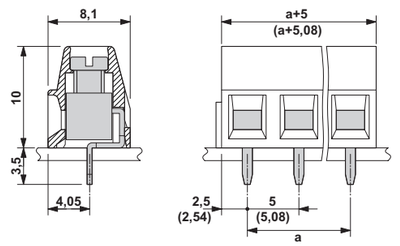
Drilling diagram



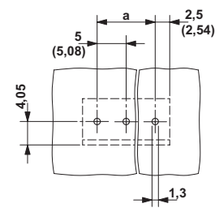
Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 3.5 mm, color: Black		
MKDS 1/ 2-3,5 HT BK	**1985807**	50
MKDS 1/ 3-3,5 HT BK	**1984950**	50
3.81 mm pitch, color: Black		
MKDS 1/ 2-3,81 HT BK	**1985823**	50
MKDS 1/ 3-3,81 HT BK	**1985836**	50

Dimensional drawing



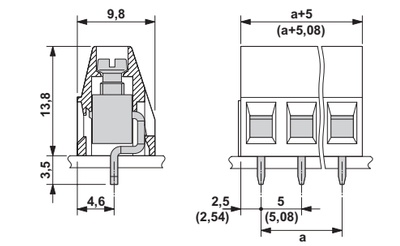
Drilling diagram



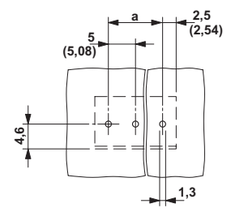
Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 5.0 mm, color: Black		
MKDSN 1,5/ 2 HT BK	**1985849**	50
MKDSN 1,5/ 3 HT BK	**1985852**	50
Headers, 5.08 mm pitch, color: Black		
MKDSN 1,5/ 2-5,08 HT BK	**1985865**	50
MKDSN 1,5/ 3-5,08 HT BK	**1985878**	50

Dimensional drawing



Drilling diagram

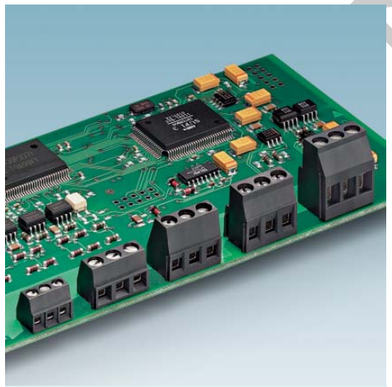


Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 5.0 mm, color: Black		
MKDS 1,5/ 2 HT BK	**1985881**	50
MKDS 1,5/ 3 HT BK	**1985894**	50
Headers, 5.08 mm pitch, color: Black		
MKDS 1,5/ 2-5,08 HT BK	**1985904**	50
MKDS 1,5/ 3-5,08 HT BK	**1985917**	50

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Connection cross section of up to 2.5 mm²



- 5.0 or 5.08 mm pitch
- Application in SMT reflow processes
- Standard types of PCB terminal blocks made of high-temperature resistant plastics
- Delivery form: Box packaging - bulk
- Taped packaging in accordance with IEC 60286-3 for automatic assembly on request
- You can find user notes and recommendations for THR procedure on page 27

Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.

¹) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.



Metric 5 mm pitch



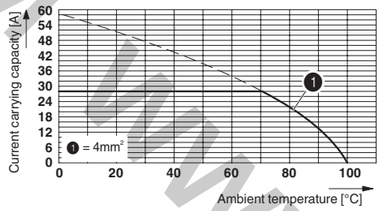
Detection lug for models with 5.08 mm inch pitch

Accessories

For all types	Type	Page
	Screwdriver **SZS 0,6 x 3,5 Order No. 1205053**	
	Marker cards **SK 5/3,8 orSK 5,08/3,8**	798
	Insertion bridge **EBP...- 5**	829

Current carrying capacity curve

Type: MKDS 3/...HT BK
Test following DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5



Technical data

		MKDSN 2,5/ ... HT BK			MKDS 3/ ... HT BK			ZFKDS 2,5-5,08 THT		
Technical data in accordance to IEC / DIN VDE										
Rated current / conductor cross section	[A] / [mm²]	16¹) / 2.5			24¹) / 4			24¹) / 4		
Rated insulation voltage for pollution degree 2	[V]	320			320			320		
Pitch	[mm]	5 / 5.08			5 / 5.08			5.08		
Connection capacity										
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 2.5 / 0.2 - 2.5 / 24 - 14			0.2 - 4 / 0.2 - 2.5 / 24 - 12			0.2 - 4 / 0.2 - 2.5 / 24 - 12		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 2.5			0.25 - 2.5			0.25 - 2.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 2.5			0.25 - 1.5			0.25 - 1.5		
Multi-conductor connection capacity (two conductors with the same cross section)										
Solid / stranded	[mm²]	0.2 - 0.75 / 0.2 - 0.75			0.2 - 1.5 / 0.2 - 1.5			- / -		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 0.75			0.25 - 0.75			-		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 1.5			0.5 - 1.5			-		
Insulation coordination										
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	200	320	320	200	320	320	200	320	320
Rated surge voltage	[kV]	4	4	4	4	4	4	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	300	-	300	300	-	300	250	-	300
Nominal current	[A]	20	-	15	15	-	10	10	-	10
Connection capacity AWG	AWG	30 - 12	-	30 - 12	30 - 12	-	30 - 12	26 - 12	-	26 - 12
Approval data (CSA)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	300	-	300	-	-	-
Nominal current	[A]	-	-	-	10	-	10	-	-	-
Connection capacity AWG	AWG	-	-	-	28 - 12	-	28 - 12	-	-	-
General data										
Stripping length	[mm]	6.5			8			7		
Screw thread		M3			M3			-		
Tightening torque	[Nm]	0.5 - 0.6			0.5 - 0.6			-		
Type of insulation material / insulation material group		PA / IIIa			PA / IIIa			PA / IIIa		
Inflammability class according to UL 94		V0			V0			V0		
Drill hole diameter / pin dimensions	[mm]	1.3 / 0,8 x 0,9 mm			1.3 / 0,9 x 0,9 mm			1.3 / 0,8 x 0,8 mm		

No. of pos.	Dim. a [mm]
2	5.00
3	10.00
1	
2	5.08
3	10.16
1	
1	



With screw connection and housing overlapping, low-profile design

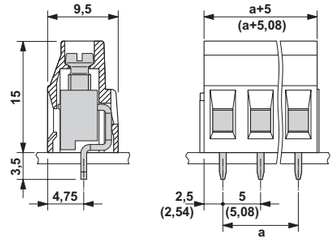


With screw connection and housing overlapping

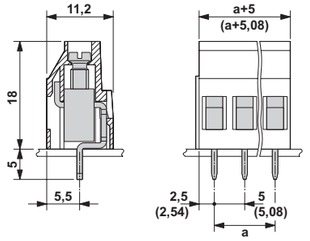


With spring-cage connection and two solder pins, modular design

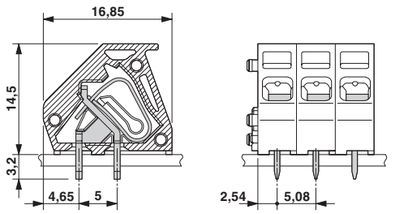
Dimensional drawing



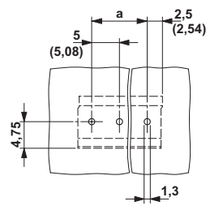
Dimensional drawing



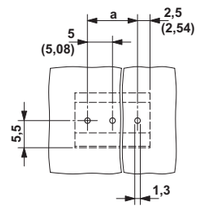
Dimensional drawing



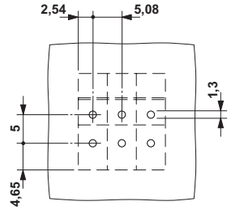
Drilling diagram



Drilling diagram



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 5.0 mm, color: Black		
MKDSN 2,5/ 2 HT BK	**1985920**	50
MKDSN 2,5/ 3 HT BK	**1985933**	50
Headers, 5.08 mm pitch, color: Black		
MKDSN 2,5/ 2-5,08 HT BK	**1985946**	50
MKDSN 2,5/ 3-5,08 HT BK	**1985959**	50

Ordering data

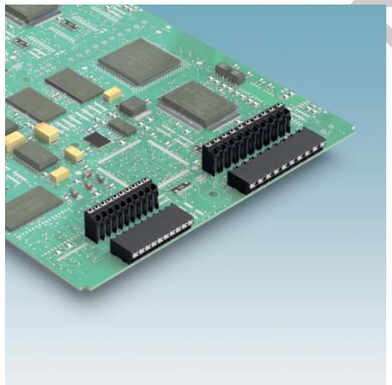
Type	Order No.	Pcs. / Pkt.
Pitch 5.0 mm, color: Black		
MKDS 3/ 2 HT BK	**1985962**	50
MKDS 3/ 3 HT BK	**1985975**	50
Headers, 5.08 mm pitch, color: Black		
MKDS 3/ 2-5,08 HT BK	**1985988**	50
MKDS 3/ 3-5,08 HT BK	**1985991**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Headers, 5.08 mm pitch, color: Black		
ZFKDS 2,5-5,08 THT	**1990245**	50
End terminal block, 5.08 mm wide, necessary at the end of a row of terminal blocks (left), if a smooth side element is desired		
ZFKDS 2,5-5,08 L THT	**1990261**	50
End terminal block, 6.08 mm wide, necessary at the end of a row of terminal blocks (right)		
ZFKDSA 2,5-6,08 R THT	**1990258**	50

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Horizontal or vertical conductor connection up to 1.5 mm²



- Push-in direct plug-in technology for solid or stranded conductors
- Suitable for use in SMT reflow processes
- Horizontal and vertical design with 3.5 mm and 3.81 mm pitch
- Two solder pins for a high level of stability on the PCB
- Standard pin length of 2.6 mm also suitable for wave soldering processes
- Supplied in tape-on-reel packing according to IEC 60286-3 for automated mounting in the reflow process with pin length of 2.0 mm

Notes:

Pick and place pads for taped THR articles usually protrude beyond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of tape reels and place pads can be found online at **www.phoenixcontact.net/products**.

[1]) Current carrying capacity curve upon request.

[2]) UL/CUL on request.

Accessories

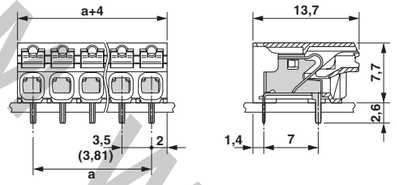
For all types	Type	Page
	Screwdriver **SZS 0,4 x 2,5 Order No. 1205037**	
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm² **CRIMPFOX 6 Order No. 1212034**	

N

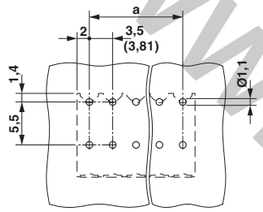


Pin length of 2.6 mm, box-packaged PCB terminal blocks, connection direction horizontal to the PCB

Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	13.5[1]) / 1.5		
Rated insulation voltage for pollution degree 2	[V]	160		
Pitch	[mm]	3.5 / 3.81		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 1.5 / 0.2 - 1.5 / 24 - 16		
Stranded with ferrules without plastic sleeve	[mm²]	0.2 - 1.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.2 - 0.75		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	- / -		
Stranded with ferrules without plastic sleeve	[mm²]	-		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	-		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	160	160	320
Rated surge voltage	[kV]	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Stripping length	[mm]	8		
Type of insulation material / insulation material group		LCP / IIIa		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.1 / 0,7 x 0,3		

No. of pos.	Dim. a [mm]
2	3.50
3	7.00
4	10.50
5	14.00
6	17.50
7	21.00
8	24.50
9	28.00
10	31.50
11	35.00
12	38.50
2	3.81
3	7.62
4	11.43
5	15.24
6	19.05
7	22.86
8	26.67
9	30.48
10	34.29
11	38.10
12	41.91

Ordering data

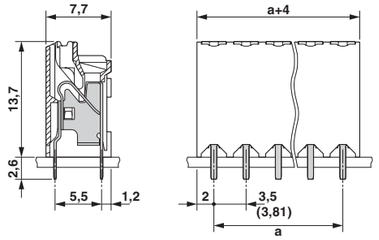
Type	Order No.	Pcs. / Pkt.
Pitch 3.5 mm, color: Black		
SPT-THR 1,5/ 2-H-3,5 P26	1822752	370
SPT-THR 1,5/ 3-H-3,5 P26	1822765	240
SPT-THR 1,5/ 4-H-3,5 P26	1822778	170
SPT-THR 1,5/ 5-H-3,5 P26	1822781	150
SPT-THR 1,5/ 6-H-3,5 P26	1822794	130
SPT-THR 1,5/ 7-H-3,5 P26	1822804	110
SPT-THR 1,5/ 8-H-3,5 P26	1822817	80
SPT-THR 1,5/ 9-H-3,5 P26	1822820	80
SPT-THR 1,5/10-H-3,5 P26	1822833	60
SPT-THR 1,5/11-H-3,5 P26	1822846	60
SPT-THR 1,5/12-H-3,5 P26	1822859	60
3.81 mm pitch, color: Black		
SPT-THR 1,5/ 2-H-3,81 P26	1822862	350
SPT-THR 1,5/ 3-H-3,81 P26	1822875	240
SPT-THR 1,5/ 4-H-3,81 P26	1822888	170
SPT-THR 1,5/ 5-H-3,81 P26	1822891	130
SPT-THR 1,5/ 6-H-3,81 P26	1822901	110
SPT-THR 1,5/ 7-H-3,81 P26	1822914	80
SPT-THR 1,5/ 8-H-3,81 P26	1822927	80
SPT-THR 1,5/ 9-H-3,81 P26	1822930	60
SPT-THR 1,5/10-H-3,81 P26	1822943	60
SPT-THR 1,5/11-H-3,81 P26	1822956	60
SPT-THR 1,5/12-H-3,81 P26	1822969	60

N

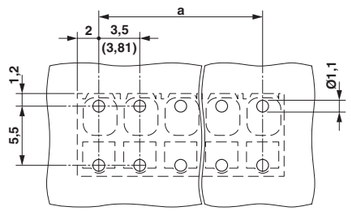


Pin length of 2.6 mm, box-packaged PCB terminal blocks, connection direction vertical to the PCB

Dimensional drawing



Drilling diagram



Ordering data

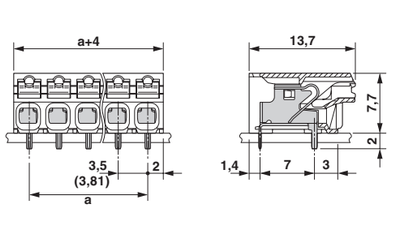
Type	Order No.	Pcs. / Pkt.
Pitch 3.5 mm, color: Black		
SPT-THR 1,5/ 2-V-3,5 P26	1822312	540
SPT-THR 1,5/ 3-V-3,5 P26	1822325	350
SPT-THR 1,5/ 4-V-3,5 P26	1822338	250
SPT-THR 1,5/ 5-V-3,5 P26	1822341	220
SPT-THR 1,5/ 6-V-3,5 P26	1822354	190
SPT-THR 1,5/ 7-V-3,5 P26	1822367	160
SPT-THR 1,5/ 8-V-3,5 P26	1822370	120
SPT-THR 1,5/ 9-V-3,5 P26	1822383	120
SPT-THR 1,5/10-V-3,5 P26	1822396	90
SPT-THR 1,5/11-V-3,5 P26	1822406	90
SPT-THR 1,5/12-V-3,5 P26	1822419	90
3.81 mm pitch, color: Black		
SPT-THR 1,5/ 2-V-3,81 P26	1822422	510
SPT-THR 1,5/ 3-V-3,81 P26	1822435	350
SPT-THR 1,5/ 4-V-3,81 P26	1822448	250
SPT-THR 1,5/ 5-V-3,81 P26	1822451	190
SPT-THR 1,5/ 6-V-3,81 P26	1822464	160
SPT-THR 1,5/ 7-V-3,81 P26	1822477	120
SPT-THR 1,5/ 8-V-3,81 P26	1822480	120
SPT-THR 1,5/ 9-V-3,81 P26	1822493	90
SPT-THR 1,5/10-V-3,81 P26	1822503	90
SPT-THR 1,5/11-V-3,81 P26	1822516	90
SPT-THR 1,5/12-V-3,81 P26	1822529	60

N

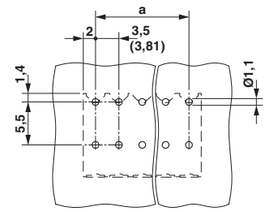


Pin length of 2.0 mm, taped PCB terminal blocks, connection direction horizontal to the PCB

Dimensional drawing



Drilling diagram



Ordering data

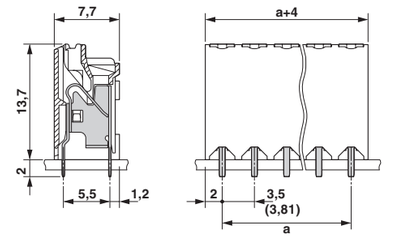
Type	Order No.	Pcs. / Pkt.
Pitch 3.5 mm, color: Black		
SPT-THR 1,5/ 2-H-3,5 P20 R24	1823638	250
SPT-THR 1,5/ 3-H-3,5 P20 R32	1823641	250
SPT-THR 1,5/ 4-H-3,5 P20 R32	1823654	250
SPT-THR 1,5/ 5-H-3,5 P20 R32	1823667	250
SPT-THR 1,5/ 6-H-3,5 P20 R44	1823670	250
SPT-THR 1,5/ 7-H-3,5 P20 R44	1823683	250
SPT-THR 1,5/ 8-H-3,5 P20 R44	1823696	250
SPT-THR 1,5/ 9-H-3,5 P20 R72	1823706	250
SPT-THR 1,5/10-H-3,5 P20 R72	1823719	250
SPT-THR 1,5/11-H-3,5 P20 R72	1823722	250
SPT-THR 1,5/12-H-3,5 P20 R72	1823735	250
3.81 mm pitch, color: Black		
SPT-THR 1,5/ 2-H-3,81 P20 R24	1823748	250
SPT-THR 1,5/ 3-H-3,81 P20 R32	1823751	250
SPT-THR 1,5/ 4-H-3,81 P20 R32	1823764	250
SPT-THR 1,5/ 5-H-3,81 P20 R32	1823777	250
SPT-THR 1,5/ 6-H-3,81 P20 R44	1823780	250
SPT-THR 1,5/ 7-H-3,81 P20 R44	1823793	250
SPT-THR 1,5/ 8-H-3,81 P20 R44	1823803	250
SPT-THR 1,5/ 9-H-3,81 P20 R72	1823816	250
SPT-THR 1,5/10-H-3,81 P20 R72	1823829	250
SPT-THR 1,5/11-H-3,81 P20 R72	1823832	250
SPT-THR 1,5/12-H-3,81 P20 R72	1823845	250

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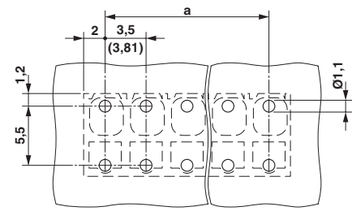


Pin length of 2.0 mm, taped PCB terminal blocks, connection direction vertical to the PCB

Dimensional drawing



Drilling diagram

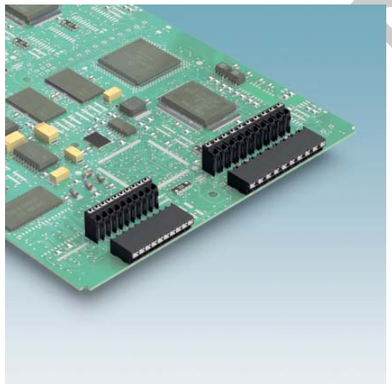


Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 3.5 mm, color: Black		
SPT-THR 1,5/ 2-V-3,5 P20 R24	1823191	180
SPT-THR 1,5/ 3-V-3,5 P20 R24	1823201	180
SPT-THR 1,5/ 4-V-3,5 P20 R44	1823214	180
SPT-THR 1,5/ 5-V-3,5 P20 R44	1823227	180
SPT-THR 1,5/ 6-V-3,5 P20 R44	1823230	180
SPT-THR 1,5/ 7-V-3,5 P20 R44	1823243	180
SPT-THR 1,5/ 8-V-3,5 P20 R72	1823256	180
SPT-THR 1,5/ 9-V-3,5 P20 R72	1823269	180
SPT-THR 1,5/10-V-3,5 P20 R72	1823272	180
SPT-THR 1,5/11-V-3,5 P20 R72	1823285	180
SPT-THR 1,5/12-V-3,5 P20 R72	1823298	180
3.81 mm pitch, color: Black		
SPT-THR 1,5/ 2-V-3,81 P20 R24	1823308	180
SPT-THR 1,5/ 3-V-3,81 P20 R24	1823311	180
SPT-THR 1,5/ 4-V-3,81 P20 R44	1823324	180
SPT-THR 1,5/ 5-V-3,81 P20 R44	1823337	180
SPT-THR 1,5/ 6-V-3,81 P20 R44	1823340	180
SPT-THR 1,5/ 7-V-3,81 P20 R44	1823353	180
SPT-THR 1,5/ 8-V-3,81 P20 R72	1823366	180
SPT-THR 1,5/ 9-V-3,81 P20 R72	1823379	180
SPT-THR 1,5/10-V-3,81 P20 R72	1823382	180
SPT-THR 1,5/11-V-3,81 P20 R72	1823395	180
SPT-THR 1,5/12-V-3,81 P20 R72	1823405	180

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Horizontal and vertical conductor connection up to 1.5 mm²



- Push-in direct plug-in technology for solid or stranded conductors
- Suitable for use in SMT reflow processes
- Horizontal and vertical design with 5.0 mm and 5.08 mm pitch
- Two solder pins for a high level of stability on the PCB
- Standard pin length of 2.6 mm also suitable for wave soldering processes
- Supplied in tape-on-reel packing according to IEC 60286-3 for automated mounting in the reflow process with pin length of 2.0 mm

Notes:

Pick and place pads for taped THR articles usually protrude beyond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of tape reels and place pads can be found online at **www.phoenixcontact.net/products**.

[1]) Current carrying capacity curve upon request.

[2]) UL/CUL on request.

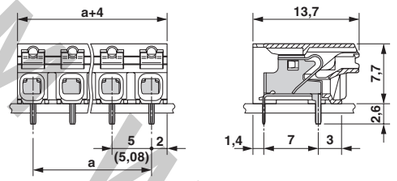
Accessories

For all types	Type	Page
	Screwdriver **SZS 0,4 x 2,5 Order No. 1205037**	
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm² **CRIMPFOX 6 Order No. 1212034**	

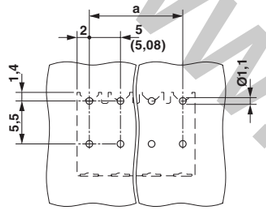


Pin length of 2.6 mm, box-packaged PCB terminal blocks, connection direction horizontal to the PCB

Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	13.5[1]) / 1.5		
Rated insulation voltage for pollution degree 2	[V]	320		
Pitch	[mm]	5 / 5.08		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 1.5 / 0.2 - 1.5 / 24 - 16		
Stranded with ferrules without plastic sleeve	[mm²]	0.2 - 1.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.2 - 0.75		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	- / -		
Stranded with ferrules without plastic sleeve	[mm²]	-		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	-		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250	320	500
Rated surge voltage	[kV]	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Stripping length	[mm]	8		
Type of insulation material / insulation material group		LCP / IIIa		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.1 / 0,7 x 0,3 mm		

Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		Pitch 5.0 mm, color: Black		
2	5.00	**SPT-THR 1,5/ 2-H-5,0 P26**	**1822972**	300
3	10.00	**SPT-THR 1,5/ 3-H-5,0 P26**	**1822985**	190
4	15.00	**SPT-THR 1,5/ 4-H-5,0 P26**	**1822998**	130
5	20.00	**SPT-THR 1,5/ 5-H-5,0 P26**	**1823007**	110
6	25.00	**SPT-THR 1,5/ 6-H-5,0 P26**	**1823010**	80
7	30.00	**SPT-THR 1,5/ 7-H-5,0 P26**	**1823023**	60
8	35.00	**SPT-THR 1,5/ 8-H-5,0 P26**	**1823036**	60
9	40.00	**SPT-THR 1,5/ 9-H-5,0 P26**	**1823049**	40
10	45.00	**SPT-THR 1,5/10-H-5,0 P26**	**1823052**	40
11	50.00	**SPT-THR 1,5/11-H-5,0 P26**	**1823065**	40
12	55.00	**SPT-THR 1,5/12-H-5,0 P26**	**1823078**	40
		Headers, 5.08 mm pitch, color: Black		
2	5.08	**SPT-THR 1,5/ 2-H-5,08 P26**	**1823081**	300
3	10.16	**SPT-THR 1,5/ 3-H-5,08 P26**	**1823094**	190
4	15.24	**SPT-THR 1,5/ 4-H-5,08 P26**	**1823104**	130
5	30.32	**SPT-THR 1,5/ 5-H-5,08 P26**	**1823117**	110
6	25.40	**SPT-THR 1,5/ 6-H-5,08 P26**	**1823120**	80
7	30.48	**SPT-THR 1,5/ 7-H-5,08 P26**	**1823133**	60
8	35.56	**SPT-THR 1,5/ 8-H-5,08 P26**	**1823146**	60
9	40.64	**SPT-THR 1,5/ 9-H-5,08 P26**	**1823159**	40
10	45.72	**SPT-THR 1,5/10-H-5,08 P26**	**1823162**	40
11	50.80	**SPT-THR 1,5/11-H-5,08 P26**	**1823175**	40
12	55.88	**SPT-THR 1,5/12-H-5,08 P26**	**1823188**	40

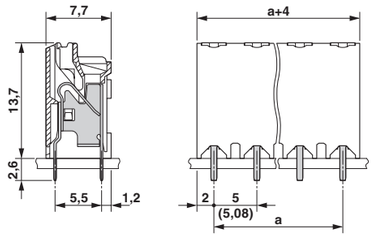
PCB terminal blocks with 2.54 to 7.62 mm pitch

PCB terminal blocks with push-in spring connection for the reflow process, currents up to 13.5 A

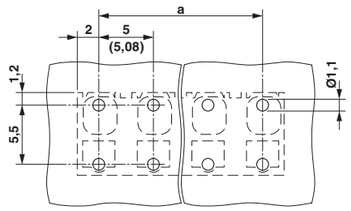


Pin length of 2.6 mm, box-packaged PCB terminal blocks, connection direction vertical to the PCB

Dimensional drawing



Drilling diagram



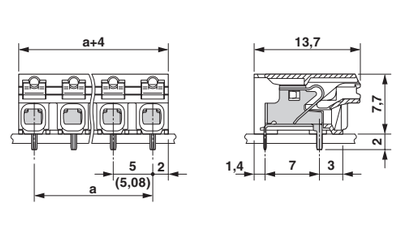
Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 5.0 mm, color: Black		
SPT-THR 1,5/ 2-V-5,0 P26	**1822532**	440
SPT-THR 1,5/ 3-V-5,0 P26	**1822545**	280
SPT-THR 1,5/ 4-V-5,0 P26	**1822558**	190
SPT-THR 1,5/ 5-V-5,0 P26	**1822561**	160
SPT-THR 1,5/ 6-V-5,0 P26	**1822574**	120
SPT-THR 1,5/ 7-V-5,0 P26	**1822587**	90
SPT-THR 1,5/ 8-V-5,0 P26	**1822590**	90
SPT-THR 1,5/ 9-V-5,0 P26	**1822600**	60
SPT-THR 1,5/10-V-5,0 P26	**1822613**	60
SPT-THR 1,5/11-V-5,0 P26	**1822626**	60
SPT-THR 1,5/12-V-5,0 P26	**1822639**	60
Headers, 5.08 mm pitch, color: Black		
SPT-THR 1,5/ 2-V-5,08 P26	**1822642**	440
SPT-THR 1,5/ 3-V-5,08 P26	**1822655**	280
SPT-THR 1,5/ 4-V-5,08 P26	**1822668**	190
SPT-THR 1,5/ 5-V-5,08 P26	**1822671**	160
SPT-THR 1,5/ 6-V-5,08 P26	**1822684**	120
SPT-THR 1,5/ 7-V-5,08 P26	**1822697**	90
SPT-THR 1,5/ 8-V-5,08 P26	**1822707**	90
SPT-THR 1,5/ 9-V-5,08 P26	**1822710**	60
SPT-THR 1,5/10-V-5,08 P26	**1822723**	60
SPT-THR 1,5/11-V-5,08 P26	**1822736**	60
SPT-THR 1,5/12-V-5,08 P26	**1822749**	60

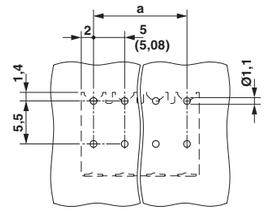


Pin length of 2.0 mm, taped PCB terminal blocks, connection direction horizontal to the PCB

Dimensional drawing



Drilling diagram



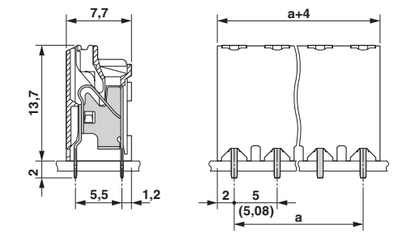
Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 5.0 mm, color: Black		
SPT-THR 1,5/ 2-H-5,0 P20 R24	**1823858**	250
SPT-THR 1,5/ 3-H-5,0 P20 R32	**1823861**	250
SPT-THR 1,5/ 4-H-5,0 P20 R32	**1823874**	250
SPT-THR 1,5/ 5-H-5,0 P20 R56	**1823887**	250
SPT-THR 1,5/ 6-H-5,0 P20 R56	**1823890**	250
SPT-THR 1,5/ 7-H-5,0 P20 R56	**1823900**	250
SPT-THR 1,5/ 8-H-5,0 P20 R56	**1823913**	250
SPT-THR 1,5/ 9-H-5,0 P20 R88	**1823926**	250
SPT-THR 1,5/10-H-5,0 P20 R88	**1823939**	250
SPT-THR 1,5/11-H-5,0 P20 R88	**1823942**	250
SPT-THR 1,5/12-H-5,0 P20 R88	**1823955**	250
Headers, 5.08 mm pitch, color: Black		
SPT-THR 1,5/ 2-H-5,08 P20 R24	**1823968**	250
SPT-THR 1,5/ 3-H-5,08 P20 R32	**1823971**	250
SPT-THR 1,5/ 4-H-5,08 P20 R32	**1823984**	250
SPT-THR 1,5/ 5-H-5,08 P20 R56	**1823997**	250
SPT-THR 1,5/ 6-H-5,08 P20 R56	**1824006**	250
SPT-THR 1,5/ 7-H-5,08 P20 R56	**1824019**	250
SPT-THR 1,5/ 8-H-5,08 P20 R56	**1824022**	250
SPT-THR 1,5/ 9-H-5,08 P20 R88	**1824035**	250
SPT-THR 1,5/10-H-5,08 P20 R88	**1824048**	250
SPT-THR 1,5/11-H-5,08 P20 R88	**1824051**	250
SPT-THR 1,5/12-H-5,08 P20 R88	**1824064**	250

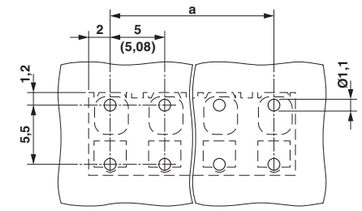


Pin length of 2.0 mm, taped PCB terminal blocks, connection direction vertical to the PCB

Dimensional drawing



Drilling diagram

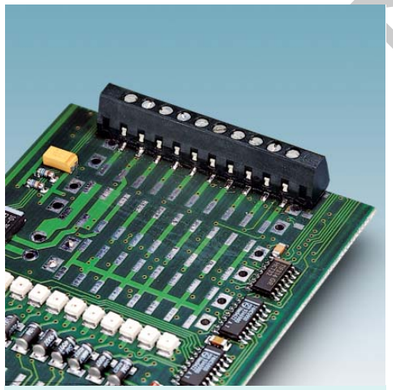


Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 5.0 mm, color: Black		
SPT-THR 1,5/ 2-V-5,0 P20 R24	**1823418**	180
SPT-THR 1,5/ 3-V-5,0 P20 R32	**1823421**	180
SPT-THR 1,5/ 4-V-5,0 P20 R56	**1823434**	180
SPT-THR 1,5/ 5-V-5,0 P20 R56	**1823447**	180
SPT-THR 1,5/ 6-V-5,0 P20 R56	**1823450**	180
SPT-THR 1,5/ 7-V-5,0 P20 R56	**1823463**	180
SPT-THR 1,5/ 8-V-5,0 P20 R88	**1823476**	180
SPT-THR 1,5/ 9-V-5,0 P20 R88	**1823489**	180
SPT-THR 1,5/10-V-5,0 P20 R88	**1823492**	180
SPT-THR 1,5/11-V-5,0 P20 R88	**1823502**	180
SPT-THR 1,5/12-V-5,0 P20 R88	**1823515**	180
Headers, 5.08 mm pitch, color: Black		
SPT-THR 1,5/ 2-V-5,08 P20 R24	**1823528**	180
SPT-THR 1,5/ 3-V-5,08 P20 R32	**1823531**	180
SPT-THR 1,5/ 4-V-5,08 P20 R56	**1823544**	180
SPT-THR 1,5/ 5-V-5,08 P20 R56	**1823557**	180
SPT-THR 1,5/ 6-V-5,08 P20 R56	**1823560**	180
SPT-THR 1,5/ 7-V-5,08 P20 R56	**1823573**	180
SPT-THR 1,5/ 8-V-5,08 P20 R88	**1823586**	180
SPT-THR 1,5/ 9-V-5,08 P20 R88	**1823599**	180
SPT-THR 1,5/10-V-5,08 P20 R88	**1823609**	180
SPT-THR 1,5/11-V-5,08 P20 R88	**1823612**	180
SPT-THR 1,5/12-V-5,08 P20 R88	**1823625**	180

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SMD PCB terminal blocks with a connection cross section of up to 1.5 mm²



- Application in SMT reflow processes
- Standard types of PCB terminal blocks made of high-temperature resistant plastics
- Type of packing: tube magazine
- Box packaging or tape-on-reel packing in accordance with IEC 60286-3 for automatic assembly on request
- You can find user notes and recommendations for THR procedure on page 27

Notes:

B 2,2 x 6,5, ISO 7049/DIN ISO 7049 fixing screw is supplied as standard. Insertion hole: 2.6 mm, soldering tag: 2.5 x 1.2 mm

When ordering, please note the number of pieces per unit pack. For production reasons, only fully filled tube magazines can be supplied.

1) Current carrying capacity curve upon request.

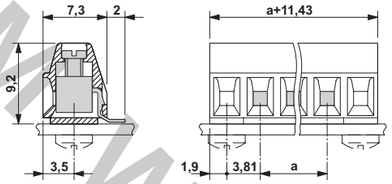


Without housing overlapping, delivery form: tube magazine

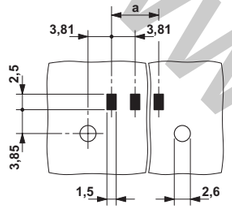
Accessories

For all types	Type	Page
	Screwdriver **SZS 0,4 x 2,5 Order No. 1205037**	
	Marker cards **SK 3,81/2,8**	797

Dimensional drawing



Drilling diagram



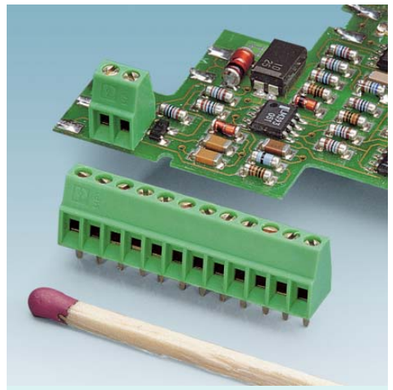
Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	8¹) / 1.5		
Rated insulation voltage for pollution degree 2	[V]	160		
Pitch	[mm]	3.81		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	0.14 - 1.5 / 0.14 - 1 / 26 - 16		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 0.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 0.5		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	0.14 - 0.5 / 0.14 - 0.2		
Stranded with ferrules without plastic sleeve	[mm²]	-		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	-		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	160	160	250
Rated surge voltage	[kV]	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	10	-	10
Connection capacity AWG	AWG	30 - 16	-	30 - 16
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	150	-	300
Nominal current	[A]	10	-	10
Connection capacity AWG	AWG	28 - 16	-	28 - 16
General data				
Stripping length	[mm]	5		
Screw thread		M2		
Tightening torque	[Nm]	0.22 - 0.25		
Type of insulation material / insulation material group		PA-F / IIIa		
Inflammability class according to UL 94		V0		

Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		3.81 mm pitch, color: Black		
2	3.81	**MKDS 1/ 2-3,81 SMD BK**	**1727230**	35
3	7.62	**MKDS 1/ 3-3,81 SMD BK**	**1727243**	28
4	11.43	**MKDS 1/ 4-3,81 SMD BK**	**1727256**	23
5	15.24	**MKDS 1/ 5-3,81 SMD BK**	**1727269**	20
6	19.05	**MKDS 1/ 6-3,81 SMD BK**	**1727272**	17
7	22.86	**MKDS 1/ 7-3,81 SMD BK**	**1727285**	15
8	26.67	**MKDS 1/ 8-3,81 SMD BK**	**1727175**	14
9	30.48	**MKDS 1/ 9-3,81 SMD BK**	**1727298**	12
10	34.29	**MKDS 1/10-3,81 SMD BK**	**1727308**	11
11	38.10	**MKDS 1/11-3,81 SMD BK**	**1727311**	10
12	41.91	**MKDS 1/12-3,81 SMD BK**	**1727324**	10

Connection cross section of up to 0.5 mm²



- MICRO PCB terminal block with 2.54 mm pitch
- Single-row type with horizontal connection direction
- Application in miniature assemblies with high contact density

Notes:

The 2 and 3-pos. versions have a locating pin (1.5 mm long) to support the mechanical load.
For drilling diagram and dimensional drawing for MPT 0,5/...2,54, 2 to 3-pos, see page 838.

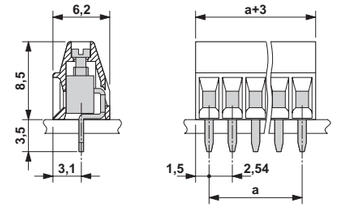


MICRO PCB terminal block with 2.54 mm pitch

Accessories

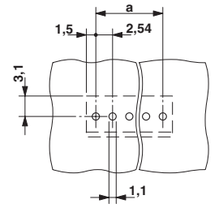
For all types	Type	Page
	Marker cards **SK 2,54/2,8**	796
	Screwdriver **SZS 0,4 X 2,0 Order No. 1205202**	

Dimensional drawing



Drilling diagram

4 to 12-pos. variants



Technical data

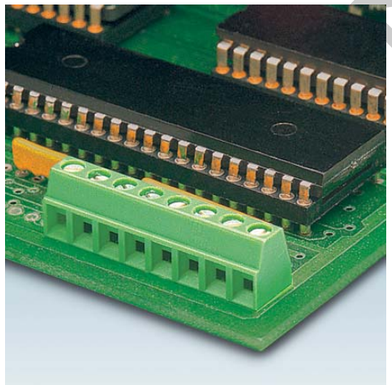
Technical data in accordance to IEC / DIN VDE			
Rated current / conductor cross section	[A] / [mm²]	6 / 0.5	
Rated insulation voltage for pollution degree 2	[V]	160	
Pitch	[mm]	2.54	
Connection capacity			
Solid / stranded	[mm²] / [mm²] / AWG	0.14 - 0.5 / 0.14 - 0.5 / 26 - 20	
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 0.34	
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 0.34	
Multi-conductor connection capacity (two conductors with the same cross section)			
Solid / stranded	[mm²]	0.14 - 0.34 / 0.14 - 0.34	
Stranded with ferrules without plastic sleeve	[mm²]	-	
Stranded with TWIN ferrule with plastic sleeve	[mm²]	-	
Insulation coordination			
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	63	160	320
Rated surge voltage	[kV]	1.5	1.5	2.5
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	125	-	-
Nominal current	[A]	6	-	-
Connection capacity AWG	AWG	30 - 20	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	125	-	-
Nominal current	[A]	6	-	-
Connection capacity AWG	AWG	28 - 20	-	-
General data				
Stripping length	[mm]	4.5		
Screw thread		M1,6		
Tightening torque	[Nm]	0.12 - 0.15		
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.1 / 0,5 x 0,9 mm		

Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		Pitch 2.54 mm, color: Green		
2	2.54	**MPT 0,5/ 2-2,54**	**1725656**	250
3	5.08	**MPT 0,5/ 3-2,54**	**1725669**	250
4	7.62	**MPT 0,5/ 4-2,54**	**1725672**	250
5	10.16	**MPT 0,5/ 5-2,54**	**1725685**	250
6	12.70	**MPT 0,5/ 6-2,54**	**1725698**	100
7	15.24	**MPT 0,5/ 7-2,54**	**1725708**	100
8	17.78	**MPT 0,5/ 8-2,54**	**1725711**	100
9	20.32	**MPT 0,5/ 9-2,54**	**1725724**	100
10	22.86	**MPT 0,5/10-2,54**	**1725737**	100
11	25.40	**MPT 0,5/11-2,54**	**1725740**	50
12	27.94	**MPT 0,5/12-2,54**	**1725753**	50

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Connection cross section of up to 1.5 mm²



– PCB terminal blocks with extremely compact housing dimensions with 3.5 or 3.81 mm pitch

MKDS 1/...
– Single-row type with horizontal connection direction

SMKDS 1/…
– Conductor and screwdriver axis at an angle of 55° to the PCB
– An arrangement of several terminal block rows one behind the other – multi-level effect with the same design

MKKDS 1/…
– Double-level type with high packaging and connection density
– Offset levels for optimum accessibility of the terminal points

Notes:

[1]) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.



Metric 3.5 mm pitch



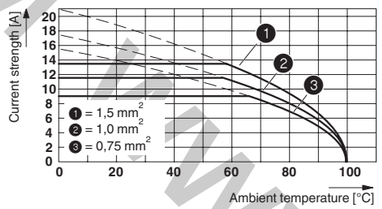
Detection lug for models with 3.81 mm inch pitch

Accessories

For all types	Type	Page
	Marker cards **SK 3,5/2,8 or SK 3,81/2,8**	797
	Screwdriver **SZS 0,4 x 2,5 Order No. 1205037**	

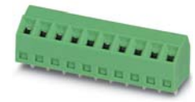
Current carrying capacity curve

Type: MKDS 1/5-3,5
Test following DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions = 5





With horizontal connection direction

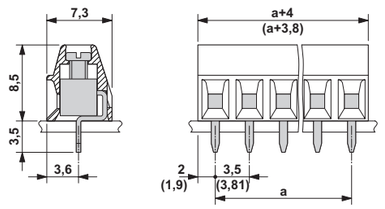


With 55° angled connection direction

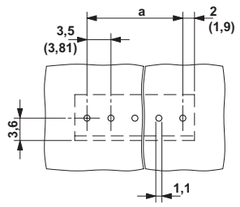


Double-level PCB terminal block with offset levels

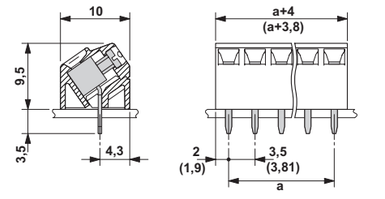
Dimensional drawing



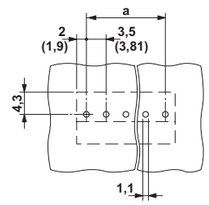
Drilling diagram



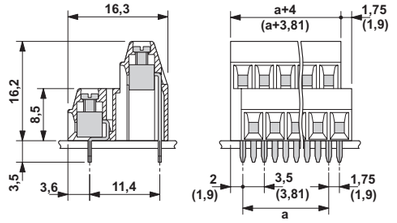
Dimensional drawing



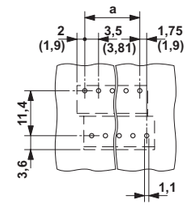
Drilling diagram



Dimensional drawing



Drilling diagram



Technical data

		MKDS 1/ ...			SMKDS 1/ ...			MKKDS 1/ ...		
Technical data in accordance to IEC / DIN VDE										
Rated current / conductor cross section	[A] / [mm²]	13.5[1]) / 1.5			10[1]) / 1.5			8[1]) / 1.5		
Rated insulation voltage for pollution degree 2	[V]	200			200			200		
Pitch	[mm]	3.5 / 3.81			3.5 / 3.81			3.5 / 3.81		
Connection capacity										
Solid / stranded	[mm²] / [mm²] / AWG	0.14 - 1.5 / 0.14 - 1.5 / 26 - 16			0.14 - 1.5 / 0.14 - 1 / 26 - 16			0.14 - 1.5 / 0.14 - 1 / 26 - 16		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 0.5			0.25 - 0.5			0.25 - 0.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 0.5			0.25 - 0.5			0.25 - 0.5		
Multi-conductor connection capacity (two conductors with the same cross section)										
Solid / stranded	[mm²]	0.14 - 0.5 / 0.14 - 0.34			0.14 - 0.5 / 0.14 - 0.2			0.14 - 0.5 / 0.14 - 0.2		
Insulation coordination										
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	160	200	400	160	200	400	160	200	400
Rated surge voltage	[kV]	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	300	-	300	300	-	300	300	-	300
Nominal current	[A]	10	-	10	10	-	10	10	-	10
Connection capacity AWG	AWG	30 - 16	-	30 - 16	30 - 16	-	30 - 16	30 - 16	-	30 - 16
Approval data (CSA)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	150	-	300	150	-	300	150	-	300
Nominal current	[A]	10	-	10	10	-	10	10	-	10
Connection capacity AWG	AWG	28 - 16	-	28 - 16	28 - 16	-	28 - 16	28 - 16	-	28 - 16
General data										
Stripping length	[mm]	5			5			5		
Screw thread		M2			M2			M2		
Tightening torque	[Nm]	0.22 - 0.25			0.22 - 0.25			0.22 - 0.25		
Type of insulation material / insulation material group		PA / I			PA / I			PA / I		
Inflammability class according to UL 94		V0			V0			V0		
Drill hole diameter / pin dimensions	[mm]	1.1 / 0,5 x 0,9 mm			1.1 / 0,5 x 0,9 mm			1.1 / 0,5 x 0,9 mm		

No. of pos.	Dim. a [mm]
2	3.50
3	7.00
4	10.50
5	14.00
6	17.50
7	21.00
8	24.50
9	28.00
10	31.50
11	35.00
12	38.50
13	42.00
14	45.50
15	49.00
16	52.50
2	3.81
3	7.62
4	11.43
5	15.24
6	19.05
7	22.86
8	26.67
9	30.48
10	34.29
11	38.10
12	41.91

Ordering data

Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
MKDS 1/ 2-3,5	1751248	250
MKDS 1/ 3-3,5	1751251	250
MKDS 1/ 4-3,5	1751264	250
MKDS 1/ 5-3,5	1751277	250
MKDS 1/ 6-3,5	1751280	100
MKDS 1/ 7-3,5	1751293	100
MKDS 1/ 8-3,5	1751303	100
MKDS 1/ 9-3,5	1751316	100
MKDS 1/10-3,5	1751329	100
MKDS 1/11-3,5	1751332	50
MKDS 1/12-3,5	1751345	50
MKDS 1/13-3,5	1751358	50
MKDS 1/14-3,5	1751361	50
MKDS 1/15-3,5	1751374	50
MKDS 1/16-3,5	1751387	50
Pitch 3.81 mm, color: Green		
MKDS 1/ 2-3,81	1727010	250
MKDS 1/ 3-3,81	1727023	250
MKDS 1/ 4-3,81	1727036	250
MKDS 1/ 5-3,81	1727049	250
MKDS 1/ 6-3,81	1727052	100
MKDS 1/ 7-3,81	1727065	100
MKDS 1/ 8-3,81	1727078	100
MKDS 1/ 9-3,81	1727081	100
MKDS 1/10-3,81	1727094	100
MKDS 1/11-3,81	1727104	50
MKDS 1/12-3,81	1727117	50

Ordering data

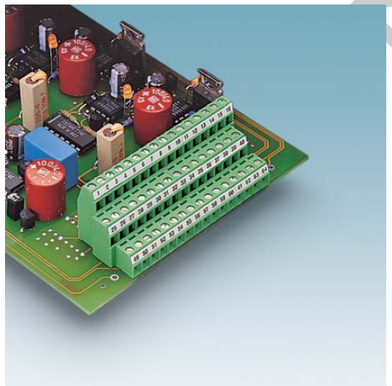
Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
SMKDS 1/ 2-3,5	1751099	250
SMKDS 1/ 3-3,5	1751109	250
SMKDS 1/ 4-3,5	1751112	250
SMKDS 1/ 5-3,5	1751125	100
SMKDS 1/ 6-3,5	1751138	100
SMKDS 1/ 7-3,5	1751141	100
SMKDS 1/ 8-3,5	1751154	100
SMKDS 1/ 9-3,5	1751167	100
SMKDS 1/10-3,5	1751170	100
SMKDS 1/11-3,5	1751183	50
SMKDS 1/12-3,5	1751196	50
SMKDS 1/13-3,5	1751206	50
SMKDS 1/14-3,5	1751219	50
SMKDS 1/15-3,5	1751222	50
SMKDS 1/16-3,5	1751235	50
Pitch 3.81 mm, color: Green		
SMKDS 1/ 2-3,81	1728284	250
SMKDS 1/ 3-3,81	1728297	250
SMKDS 1/ 4-3,81	1728307	250
SMKDS 1/ 5-3,81	1728310	100
SMKDS 1/ 6-3,81	1728323	100
SMKDS 1/ 7-3,81	1728336	100
SMKDS 1/ 8-3,81	1728349	100
SMKDS 1/ 9-3,81	1728352	100
SMKDS 1/10-3,81	1728365	100
SMKDS 1/11-3,81	1728378	50
SMKDS 1/12-3,81	1728381	50

Ordering data

Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
MKKDS 1/ 2-3,5	1751390	50
MKKDS 1/ 3-3,5	1751400	50
MKKDS 1/ 4-3,5	1751413	50
MKKDS 1/ 5-3,5	1751426	50
MKKDS 1/ 6-3,5	1751439	50
MKKDS 1/ 7-3,5	1751442	50
MKKDS 1/ 8-3,5	1751455	50
MKKDS 1/ 9-3,5	1751468	50
MKKDS 1/10-3,5	1751471	50
MKKDS 1/11-3,5	1751484	50
MKKDS 1/12-3,5	1751497	50
MKKDS 1/13-3,5	1751507	50
MKKDS 1/14-3,5	1751510	50
MKKDS 1/15-3,5	1751523	50
MKKDS 1/16-3,5	1751536	50
Pitch 3.81 mm, color: Green		
MKKDS 1/ 2-3,81	1708026	50
MKKDS 1/ 3-3,81	1708039	50
MKKDS 1/ 4-3,81	1708042	50
MKKDS 1/ 5-3,81	1708055	50
MKKDS 1/ 6-3,81	1708068	50
MKKDS 1/ 7-3,81	1708071	50
MKKDS 1/ 8-3,81	1708084	50
MKKDS 1/ 9-3,81	1708107	50
MKKDS 1/10-3,81	1708110	50
MKKDS 1/11-3,81	1708123	50
MKKDS 1/12-3,81	1708136	50

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Connection cross section of up to 1.5 mm²



- PCB terminal blocks with extremely compact housing dimensions with 3.5 or 3.81 mm pitch

MK3DS 1/...
- Three-level type with high packaging and connection density
- Offset levels for optimum accessibility of the terminal points

SMKDS 1,5/...
- Conductor and screwdriver axis at an angle of 55° to the PCB
- An arrangement of several terminal block rows one behind the other – multi-level effect with the same design

MKDSFW 1,5/...
- Horizontal series with vertical connection direction to the PCB

Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.

For dimensional drawing and drilling diagram of 2 and 3-pos. MKDSFW 1,5/...-3,5, see page 838.

1) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.



Metric 3.5 mm pitch



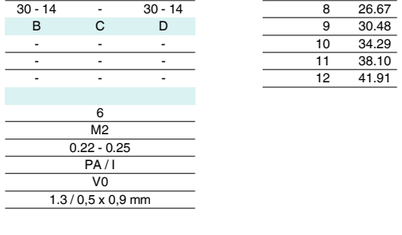
Detection lug for models with 3.81 mm inch pitch

Accessories

For all types	Type	Page
	Marker cards **SK 3,5/2,8 or SK 3,81/2,8**	797
	Screwdriver **SZS 0,4 x 2,5 Order No. 1205037**	

Current carrying capacity curve

Type: MK3DS 1/5-3,81
Test following DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of pos.:5





Three-level PCB terminal block with offset levels, without housing overlapping

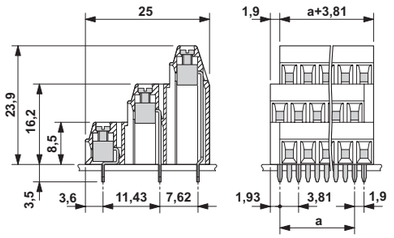


With 55° angled connection direction, with housing overlapping

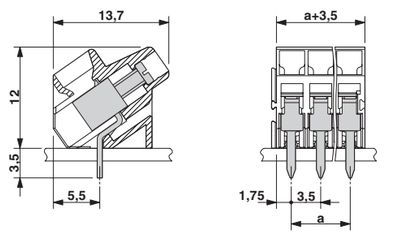


With vertical connection direction and stand-off, without housing overlapping

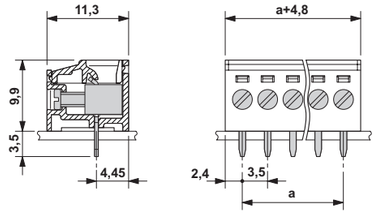
Dimensional drawing



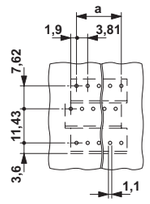
Dimensional drawing



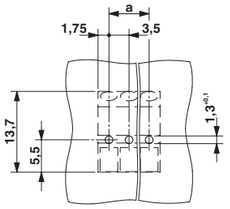
Dimensional drawing



Drilling diagram

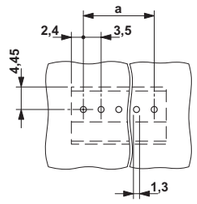


Drilling diagram



Drilling diagram

The illustration shows the drilling diagram of the 4 to 12-position versions



Technical data

		MK3DS 1/ ...-3,81			SMKDS 1,5/ ...-3,5			MKDSFW 1,5/ ...-3,5		
Technical data in accordance to IEC / DIN VDE										
Rated current / conductor cross section	[A] / [mm²]	8¹) / 1.5			12¹) / 1.5			12¹) / 1.5		
Rated insulation voltage for pollution degree 2	[V]	160			160			160		
Pitch	[mm]	3.81			3.5			3.5		
Connection capacity										
Solid / stranded	[mm²] / [mm²] / AWG	0.14 - 1.5 / 0.14 - 1 / 26 - 16			0.08 - 1.5 / 0.08 - 1.5 / 28 - 16			0.14 - 1.5 / 0.14 - 1.5 / 26 - 16		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 0.5			0.25 - 1.5			0.25 - 1.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 0.5			0.25 - 1.5			0.25 - 1.5		
Multi-conductor connection capacity (two conductors with the same cross section)										
Solid / stranded	[mm²]	0.14 - 0.5 / 0.14 - 0.2			0.08 - 0.5 / 0.08 - 0.75			0.14 - 0.75 / 0.14 - 0.75		
Stranded with ferrules without plastic sleeve	[mm²]	-			0.25 - 0.34			0.25 - 0.5		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	-			-			0.5 - 1		
Insulation coordination										
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	160	160	320	160	160	320	160	160	320
Rated surge voltage	[kV]	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	300	-	300	250	-	300	300	-	300
Nominal current	[A]	10	-	10	10	-	10	10	-	10
Connection capacity AWG	AWG	30 - 16	-	30 - 16	30 - 14	-	30 - 14	30 - 14	-	30 - 14
Approval data (CSA)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	150	-	300	-	-	-	-	-	-
Nominal current	[A]	10	-	10	-	-	-	-	-	-
Connection capacity AWG	AWG	28 - 16	-	28 - 16	-	-	-	-	-	-
General data										
Stripping length	[mm]	5			7			6		
Screw thread		M2			M2			M2		
Tightening torque	[Nm]	0.22 - 0.25			0.22 - 0.25			0.22 - 0.25		
Type of insulation material / insulation material group		PA / I			PA / I			PA / I		
Inflammability class according to UL 94		V0			V0			V0		
Drill hole diameter / pin dimensions	[mm]	1.1 / 0,5 x 0,9 mm			1.3 / 0,6 x 1 mm			1.3 / 0,5 x 0,9 mm		

No. of pos.	Dim. a [mm]
2	3.50
3	7.00
4	10.50
5	14.00
6	17.50
7	31.00
8	24.50
9	28.00
10	31.50
11	35.00
12	38.50
2	3.81
3	7.62
4	11.43
5	15.24
6	19.05
7	22.86
8	26.67
9	30.48
10	34.29
11	38.10
12	41.91

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 3.81 mm, color: Green		
MK3DS 1/ 2-3,81	**1727735**	50
MK3DS 1/ 3-3,81	**1727748**	50
MK3DS 1/ 4-3,81	**1727751**	50
MK3DS 1/ 5-3,81	**1727764**	50
MK3DS 1/ 6-3,81	**1727777**	50
MK3DS 1/ 7-3,81	**1727780**	50
MK3DS 1/ 8-3,81	**1727793**	50
MK3DS 1/ 9-3,81	**1727803**	50
MK3DS 1/10-3,81	**1727816**	50
MK3DS 1/11-3,81	**1727829**	50
MK3DS 1/12-3,81	**1727832**	50

Ordering data

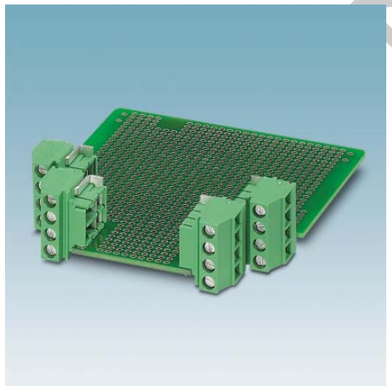
Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
SMKDS 1,5/ 2-3,5	**1931770**	50
SMKDS 1,5/ 3-3,5	**1931783**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
MKDSFW 1,5/ 2-3,5	**1868128**	50
MKDSFW 1,5/ 3-3,5	**1868131**	50
MKDSFW 1,5/ 4-3,5	**1868144**	50
MKDSFW 1,5/ 5-3,5	**1868157**	50
MKDSFW 1,5/ 6-3,5	**1868160**	50
MKDSFW 1,5/ 7-3,5	**1868173**	50
MKDSFW 1,5/ 8-3,5	**1868186**	50
MKDSFW 1,5/ 9-3,5	**1868199**	50
MKDSFW 1,5/10-3,5	**1868209**	50
MKDSFW 1,5/11-3,5	**1868212**	50
MKDSFW 1,5/12-3,5	**1868225**	50

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Connection cross section of up to 1.5 mm²



- PCB terminal block for ME/ME MAX electronic housing
- PCB terminal block is orthogonal to the PCB
- "Left" and "right" design
- Pitch 3.5 mm
- Number of positions between 3 and 5

Notes:

[1]) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.

[2]) PCB terminal blocks with 5 mm pitch, see page 113.

Accessories

For all types	Type	Page
	Marker cards **SK 3,5/2,8**	797

Technical data

		MKDSO 1,5/ 3-L-3,5 KMGY			MKDSO 1,5/ 3-R-3,5 KMGY		
Technical data in accordance to IEC / DIN VDE							
Rated current / conductor cross section	[A] / [mm²]	8[1]) / 1.5			8[1]) / 1.5		
Rated insulation voltage for pollution degree 2	[V]	160			160		
Pitch	[mm]	3.5			3.5		
Connection capacity							
Solid / stranded	[mm²] / [mm²] / AWG	0.14 - 1.5 / 0.14 - 1.5 / 28 - 16			0.14 - 1.5 / 0.14 - 1.5 / 28 - 16		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 1.5			0.25 - 1.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 0.5			0.25 - 0.5		
Multi-conductor connection capacity (two conductors with the same cross section)							
Solid / stranded	[mm²]	0.08 - 0.5 / 0.08 - 0.75			0.08 - 0.5 / 0.08 - 0.75		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 0.34			0.25 - 0.34		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 0.5			0.5 - 0.5		
Insulation coordination							
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	160	160	320	160	160	320
Rated surge voltage	[kV]	2.5	2.5	2.5	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-
Approval data (CSA)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-
General data							
Stripping length	[mm]	7			7		
Screw thread		M2			M2		
Tightening torque	[Nm]	0.22 - 0.25			0.22 - 0.25		
Type of insulation material / insulation material group		PA / I			PA / I		
Inflammability class according to UL 94		V0			V0		
Drill hole diameter / pin dimensions	[mm]	1.2 / 0,8 x 0,8 mm			1.2 / 0,8 x 0,8 mm		

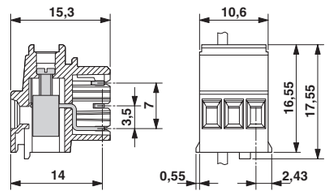


With "left" solder pins leading off at a right angle

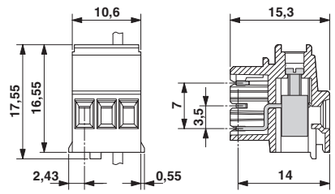


With "right" solder pins leading off at a right angle

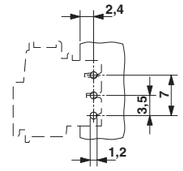
Dimensional drawing



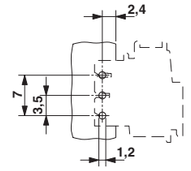
Dimensional drawing



Drilling diagram



Drilling diagram



No. of pos.	Dim. a [mm]
3	7.00
4	10.50
5	14.00

Ordering data

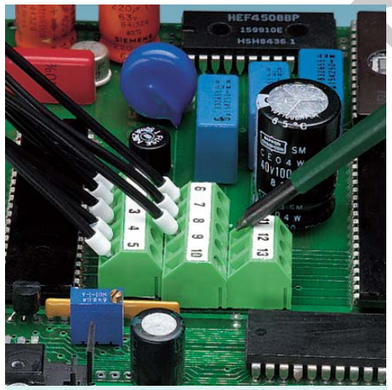
Type	Order No.	Pcs. / Pkt.
PCB terminal block, left, 3.5 mm pitch, color: light gray[2])		
MKDSO 1,5/ 3-L-3,5 KMGY	**2278445**	50
MKDSO 1,5/ 4-L-3,5 KMGY	**2278432**	50
MKDSO 1,5/ 5-L-3,5 KMGY	**2278393**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
PCB terminal block, right, 3.5 mm pitch, color: light gray		
MKDSO 1,5/ 3-R-3,5 KMGY	**2278458**	50
MKDSO 1,5/ 4-R-3,5 KMGY	**2278429**	50
MKDSO 1,5/ 5-R-3,5 KMGY	**2278416**	50

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Connection cross section of up to 1.5 mm²



- PCB terminal blocks with compact housing dimensions and a flat design
- Conductor cross sections up to 1.5 mm²
- 5.0 or 5.08 mm pitch

MKDSN 1,5/…
- Single-row type with horizontal connection direction

SMKDSN 1,5/...
- Conductor and screwdriver axis at an angle of 55° to the PCB
- An arrangement of several terminal block rows one behind the other – multi-level effect with the same design

Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.

¹) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.



Metric 5 mm pitch



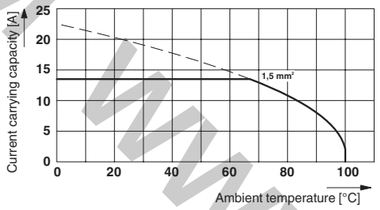
Detection lug for models with 5.08 mm inch pitch

Accessories

For all types	Type	Page
	Marker cards **SK 5/3,8 orSK 5,08/3,8**	798
	Screwdriver **SZS 0,6 x 3,5 Order No. 1205053**	
	Insertion bridge **EBP...- 5**	829

Current carrying capacity curve

Type: MKDSN 1,5/5
Test following DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of pos.:5



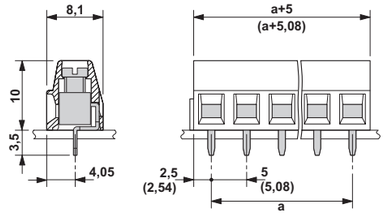


Low-profile design, with housing overlapping

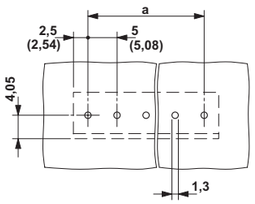


With 55° angled connection direction, without housing overlapping

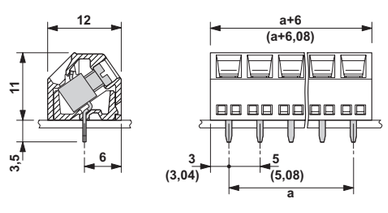
Dimensional drawing



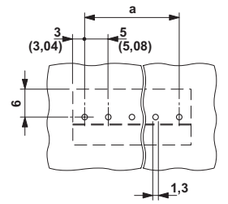
Drilling diagram



Dimensional drawing



Drilling diagram



Technical data

		MKDSN 1,5/ ...			SMKDSN 1,5/ ...		
Technical data in accordance to IEC / DIN VDE							
Rated current / conductor cross section	[A] / [mm²]	13.5¹) / 1.5			13.5¹) / 1.5		
Rated insulation voltage for pollution degree 2	[V]	400			400		
Pitch	[mm]	5 / 5.08			5 / 5.08		
Connection capacity							
Solid / stranded	[mm²] / [mm²] / AWG	0.14 - 1.5 / 0.14 - 1.5 / 26 - 16			0.14 - 1.5 / 0.14 - 1.5 / 26 - 16		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 1			0.25 - 1.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 1.5			0.25 - 1.5		
Multi-conductor connection capacity (two conductors with the same cross section)							
Solid / stranded	[mm²]	0.14 - 0.75 / 0.14 - 0.75			0.14 - 0.75 / 0.14 - 0.75		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 0.5			0.25 - 0.5		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 0.75			0.5 - 1		
Insulation coordination							
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250	400	630	250	400	630
Rated surge voltage	[kV]	4	4	4	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	300	-	300	300	-	300
Nominal current	[A]	10	-	10	10	-	10
Connection capacity AWG	AWG	30 - 14	-	30 - 14	30 - 14	-	30 - 14
Approval data (CSA)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	150	-	300	150	-	300
Nominal current	[A]	10	-	10	10	-	10
Connection capacity AWG	AWG	28 - 14	-	28 - 14	28 - 14	-	28 - 14
General data							
Stripping length	[mm]	6			6		
Screw thread		M3			M3		
Tightening torque	[Nm]	0.5 - 0.6			0.5 - 0.6		
Type of insulation material / insulation material group		PA / I			PA / I		
Inflammability class according to UL 94		V0			V0		
Drill hole diameter / pin dimensions	[mm]	1.3 / 0,5 x 1 mm			1.3 / 0,5 x 1 mm		

No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00
5	20.00
6	25.00
7	30.00
8	35.00
9	40.00
10	45.00
11	50.00
12	55.00
13	60.00
14	65.00
15	70.00
16	75.00
2	5.08
3	10.16
4	15.24
5	20.32
6	25.40
7	30.48
8	35.56
9	40.64
10	45.72
11	50.80
12	55.88
13	60.96
14	66.04
15	71.12
16	76.20

Ordering data

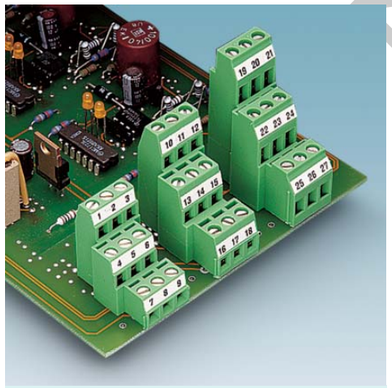
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MKDSN 1,5/ 2	**1729018**	250
MKDSN 1,5/ 3	**1729021**	250
MKDSN 1,5/ 4	**1729034**	250
MKDSN 1,5/ 5	**1729047**	250
MKDSN 1,5/ 6	**1729050**	100
MKDSN 1,5/ 7	**1729063**	100
MKDSN 1,5/ 8	**1729076**	100
MKDSN 1,5/ 9	**1729089**	100
MKDSN 1,5/10	**1729092**	100
MKDSN 1,5/11	**1729102**	50
MKDSN 1,5/12	**1729115**	50
5.08 mm pitch, color: Green		
MKDSN 1,5/ 2-5,08	**1729128**	250
MKDSN 1,5/ 3-5,08	**1729131**	250
MKDSN 1,5/ 4-5,08	**1729144**	250
MKDSN 1,5/ 5-5,08	**1729157**	250
MKDSN 1,5/ 6-5,08	**1729160**	100
MKDSN 1,5/ 7-5,08	**1729173**	100
MKDSN 1,5/ 8-5,08	**1729186**	100
MKDSN 1,5/ 9-5,08	**1729199**	100
MKDSN 1,5/10-5,08	**1729209**	100
MKDSN 1,5/11-5,08	**1729212**	50
MKDSN 1,5/12-5,08	**1729225**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
SMKDSN 1,5/ 2	**1869062**	250
SMKDSN 1,5/ 3	**1869075**	250
SMKDSN 1,5/ 4	**1869088**	250
SMKDSN 1,5/ 5	**1869091**	100
SMKDSN 1,5/ 6	**1869101**	100
SMKDSN 1,5/ 7	**1869114**	100
SMKDSN 1,5/ 8	**1869127**	100
SMKDSN 1,5/ 9	**1869130**	100
SMKDSN 1,5/10	**1869143**	100
SMKDSN 1,5/11	**1869156**	50
SMKDSN 1,5/12	**1869169**	50
SMKDSN 1,5/13	**1869172**	50
SMKDSN 1,5/14	**1869185**	50
SMKDSN 1,5/15	**1869198**	50
SMKDSN 1,5/16	**1869208**	50
5.08 mm pitch, color: Green		
SMKDSN 1,5/ 2-5,08	**1869211**	250
SMKDSN 1,5/ 3-5,08	**1869224**	250
SMKDSN 1,5/ 4-5,08	**1869237**	250
SMKDSN 1,5/ 5-5,08	**1869240**	100
SMKDSN 1,5/ 6-5,08	**1869253**	100
SMKDSN 1,5/ 7-5,08	**1869266**	100
SMKDSN 1,5/ 8-5,08	**1869279**	100
SMKDSN 1,5/ 9-5,08	**1869282**	100
SMKDSN 1,5/10-5,08	**1869295**	100
SMKDSN 1,5/11-5,08	**1869305**	50
SMKDSN 1,5/12-5,08	**1869318**	50
SMKDSN 1,5/13-5,08	**1869321**	50
SMKDSN 1,5/14-5,08	**1869334**	50
SMKDSN 1,5/15-5,08	**1869347**	50
SMKDSN 1,5/16-5,08	**1869350**	50

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Connection cross section of up to 1.5 mm²



- Compact housing dimensions and low-profile design
- Conductor cross sections up to 1.5 mm²
- 5.0 or 5.08 mm pitch

MKKDSN 1,5/…
- Double-level type with high packaging and connection density
- Offset levels for optimum accessibility of the terminal points

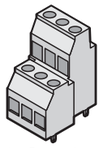
MKKDSNH 1,5/…
- Single-row type, back level of the double-level PCB terminal block

MK3DSN 1,5/...
- Three-level type with high packaging and connection density
- Offset levels for optimum accessibility of the terminal points

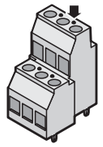
Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.

¹) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.



Metric 5 mm pitch



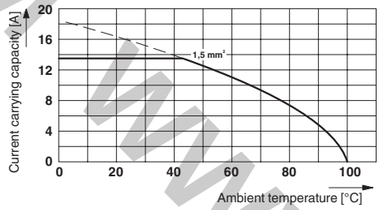
Detection lug for models with 5.08 mm inch pitch

Accessories

For all types	Type	Page
	Marker cards **SK 5/3,8 orSK 5,08/3,8**	798
	Screwdriver **SZS 0,6 x 3,5 Order No. 1205053**	
	Insertion bridge **EBP...- 5**	829

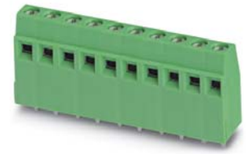
Current carrying capacity curve

Type: MKKDSN 1,5/5
Test following DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5

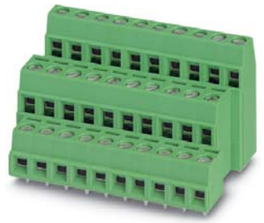




Double-level PCB terminal block with offset levels, with housing overlapping

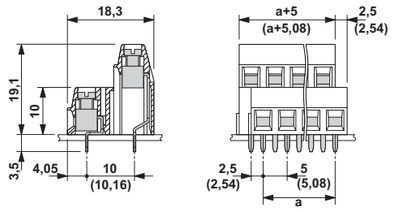


High PCB terminal block with housing overlapping

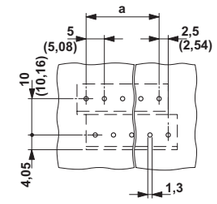


Three-level PCB terminal block with offset levels, with housing overlapping

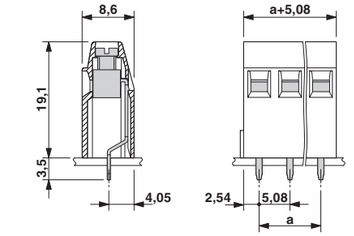
Dimensional drawing



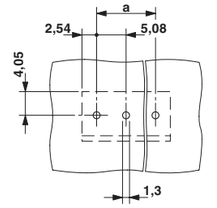
Drilling diagram



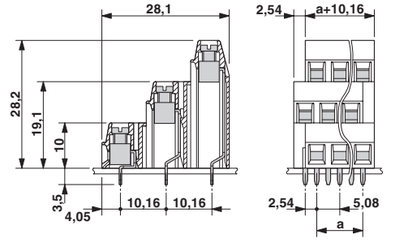
Dimensional drawing



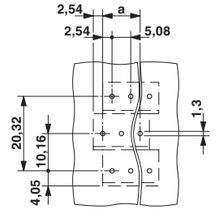
Drilling diagram



Dimensional drawing



Drilling diagram



Technical data

		MKKDSN 1,5/ ...			MKKDSNH 1,5/ ...-5,08			MK3DSN 1,5/ ...-5,08		
Technical data in accordance to IEC / DIN VDE										
Rated current / conductor cross section	[A] / [mm²]	13.5¹) / 1.5			13.5¹) / 1.5			10¹) / 1.5		
Rated insulation voltage for pollution degree 2	[V]	400			400			400		
Pitch	[mm]	5 / 5.08			5.08			5.08		
Solid / stranded	[mm²] / [mm²] / AWG	0.14 - 1.5 / 0.14 - 1.5 / 26 - 16			0.14 - 1.5 / 0.14 - 1.5 / 26 - 16			0.14 - 1.5 / 0.14 - 1.5 / 26 - 16		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 1			0.25 - 1.5			0.25 - 1		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 1			0.25 - 1.5			0.25 - 1		
Multi-conductor connection capacity (two conductors with the same cross section)										
Solid / stranded	[mm²]	0.14 - 0.75 / 0.14 - 0.75			0.14 - 0.75 / 0.14 - 0.75			0.14 - 0.75 / 0.14 - 0.75		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 0.5			0.25 - 0.5			0.25 - 0.5		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 0.5			0.5 - 1			0.5 - 0.5		
Insulation coordination										
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250	400	630	250	400	630	250	400	630
Rated surge voltage	[kV]	4	4	4	4	4	4	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	300	-	300	300	-	300	300	-	300
Nominal current	[A]	10	-	10	10	-	10	10	-	10
Connection capacity AWG	AWG	30 - 14	-	30 - 14	30 - 14	-	30 - 14	30 - 14	-	30 - 14
Approval data (CSA)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	150	-	300	-	-	-	150	-	300
Nominal current	[A]	10	-	10	-	-	-	10	-	10
Connection capacity AWG	AWG	28 - 14	-	28 - 14	-	-	-	28 - 14	-	28 - 14
General data										
Stripping length	[mm]	6			6			6		
Screw thread		M3			M3			M3		
Tightening torque	[Nm]	0.5 - 0.6			0.5 - 0.6			0.5 - 0.6		
Type of insulation material / insulation material group		PA / I			PA / I			PA / I		
Inflammability class according to UL 94		V0			V0			V2		
Drill hole diameter / pin dimensions	[mm]	1.3 / 0,5 x 1 mm			1.3 / 0,5 x 1 mm			1.3 / 0,5 x 1 mm		

No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00
5	20.00
6	25.00
7	30.00
8	35.00
2	5.08
3	10.16
4	15.24
5	20.32
6	25.40
7	30.48
8	35.56

Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MKKDSN 1,5/ 2	**1726037**	250
MKKDSN 1,5/ 3	**1726053**	250
MKKDSN 1,5/ 4	**1726118**	50
MKKDSN 1,5/ 5	**1726121**	50
MKKDSN 1,5/ 6	**1726134**	50
MKKDSN 1,5/ 7	**1726147**	50
MKKDSN 1,5/ 8	**1726150**	50
5.08 mm pitch, color: Green		
MKKDSN 1,5/ 2-5,08	**1726040**	250
MKKDSN 1,5/ 3-5,08	**1726066**	250
MKKDSN 1,5/ 4-5,08	**1726163**	50
MKKDSN 1,5/ 5-5,08	**1726176**	50
MKKDSN 1,5/ 6-5,08	**1726189**	50
MKKDSN 1,5/ 7-5,08	**1726192**	50
MKKDSN 1,5/ 8-5,08	**1726202**	50

Ordering data

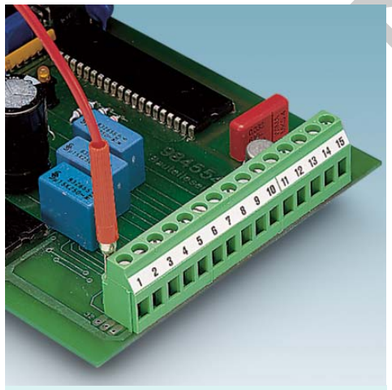
Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MKKDSNH 1,5/ 2-5,08	**1731828**	50
MKKDSNH 1,5/ 3-5,08	**1731831**	50
MKKDSNH 1,5/ 4-5,08	**1731857**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MK3DSN 1,5/ 2-5,08	**1723289**	100
MK3DSN 1,5/ 3-5,08	**1723292**	100

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Connection cross section of up to 1.5 mm²



- Single-row PCB terminal blocks for conductor cross sections up to 1.5 mm²
- 5.0 or 5.08 mm pitch

MKDSP 1,5/...
- With a 2.3 mm Ø test connection

SMKDSP 1,5/...
- Conductor and screwdriver axis at an angle of 35° to the PCB
- An arrangement of several terminal block rows one behind the other – multi-level effect with the same design
- With a 2.3 mm Ø test connection

Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.

¹) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.



Metric 5 mm pitch



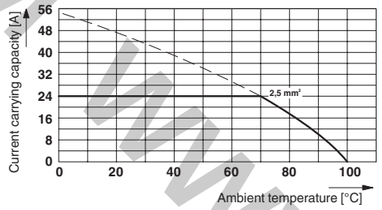
Detection lug for models with 5.08 mm inch pitch

Accessories

For all types	Type	Page
	Marker cards **SK 5/3,8 orSK 5,08/3,8**	798
	Screwdriver **SZS 0,6 x 3,5 Order No. 1205053**	
	Insertion bridge **EBP...- 5**	829
Only for MKDSP 1,5 and SMKDSP 1,5		
	Test plug **MPS**	831
Only for MKDS 1,5		
	Pitch spacer, width 1.25 mm **RZ 1,25-MKDS 1,5 Order No. 1702048**	

Current carrying capacity curve

Type: MKDS 1,5/2 and MKDS 1,5/3
Test as per DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5



Technical data

		MKDS 1,5/ ...			MKDSP 1,5/ ...			SMKDSP 1,5/ ...		
Technical data in accordance to IEC / DIN VDE										
Rated current / conductor cross section	[A] / [mm²]	17.5¹) / 2.5			17.5¹) / 2.5			17.5¹) / 2.5		
Rated insulation voltage for pollution degree 2	[V]	400			400			400		
Pitch	[mm]	5 / 5.08			5 / 5.08			5 / 5.08		
Connection capacity										
Solid / stranded	[mm²] / [mm²] / AWG	0.14 - 2.5 / 0.14 - 1.5 / 26 - 14			0.14 - 2.5 / 0.14 - 1.5 / 26 - 14			0.14 - 2.5 / 0.14 - 1.5 / 26 - 14		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 1.5			0.25 - 1.5			0.25 - 1.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 1.5			0.25 - 1.5			0.25 - 1.5		
Multi-conductor connection capacity (two conductors with the same cross section)										
Solid / stranded	[mm²]	0.14 - 1 / 0.14 - 0.75			0.14 - 1 / 0.14 - 0.75			0.14 - 1 / 0.14 - 0.75		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 0.5			0.25 - 0.5			0.25 - 0.5		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 1			0.5 - 1			0.5 - 1		
Insulation coordination										
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250	400	630	250	400	630	250	400	630
Rated surge voltage	[kV]	4	4	4	4	4	4	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	300	-	300	300	-	300	250	-	300
Nominal current	[A]	15	-	10	10	-	10	15	-	10
Connection capacity AWG	AWG	30 - 14	-	30 - 14	30 - 14	-	30 - 14	30 - 14	-	30 - 14
Approval data (CSA)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	300	-	300	300	-	300	300	-	300
Nominal current	[A]	10	-	10	10	-	10	10	-	10
Connection capacity AWG	AWG	28 - 14	-	28 - 14	28 - 14	-	28 - 14	28 - 14	-	28 - 14
General data										
Stripping length	[mm]	7			7			7		
Screw thread		M3			M3			M3		
Tightening torque	[Nm]	0.5 - 0.6			0.5 - 0.6			0.5 - 0.6		
Type of insulation material / insulation material group		PA / I			PA / I			PA / I		
Inflammability class according to UL 94		V0			V0			V0		
Drill hole diameter / pin dimensions	[mm]	1.3 / 0,9 x 0,9 mm			1.3 / 0,9 x 0,9 mm			1.3 / 0,9 x 0,9 mm		

No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00
5	20.00
6	25.00
7	30.00
8	35.00
9	40.00
10	45.00
11	50.00
12	55.00
2	5.08
3	10.16
4	15.24
5	20.32
6	25.40
7	30.48
8	35.56
9	40.64
10	45.72
11	50.80
12	55.88



Horizontal connection direction, with housing overlapping



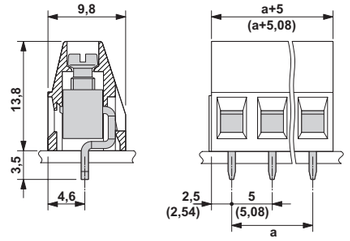
Horizontal connection direction, with test connection and housing overlapping



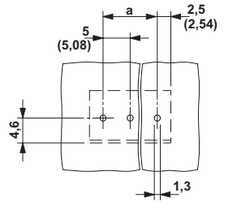
With 35° angled connection direction, with test connection and housing overlapping

CCA

Dimensional drawing



Drilling diagram

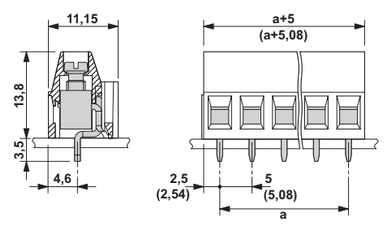


Ordering data

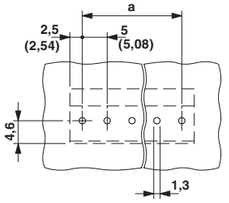
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MKDS 1,5/ 2	**1715022**	250
MKDS 1,5/ 3	**1715035**	250
MKDS 1,5/ 4	**1715048**	250
MKDS 1,5/ 8	**1715080**	50
MKDS 1,5/12	**1715129**	50
5.08 mm pitch, color: Green		
MKDS 1,5/ 2-5,08	**1715721**	250
MKDS 1,5/ 3-5,08	**1715734**	250
MKDS 1,5/ 4-5,08	**1715747**	250
MKDS 1,5/ 8-5,08	**1715789**	50
MKDS 1,5/10-5,08	**1715802**	50
MKDS 1,5/12-5,08	**1715828**	50

CCA CB

Dimensional drawing



Drilling diagram

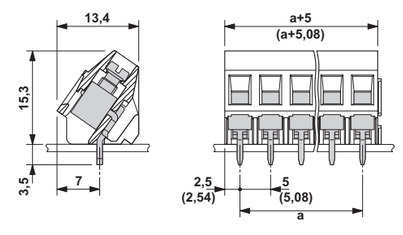


Ordering data

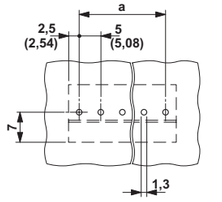
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MKDSP 1,5/ 2	**1730010**	50
MKDSP 1,5/ 3	**1730023**	50
MKDSP 1,5/ 4	**1730036**	50
MKDSP 1,5/ 5	**1730049**	50
MKDSP 1,5/ 6	**1730052**	50
MKDSP 1,5/ 7	**1730065**	50
MKDSP 1,5/ 8	**1730078**	50
MKDSP 1,5/ 9	**1730081**	50
MKDSP 1,5/10	**1730094**	50
MKDSP 1,5/11	**1730104**	50
MKDSP 1,5/12	**1730117**	50
5.08 mm pitch, color: Green		
MKDSP 1,5/ 2-5,08	**1730120**	50
MKDSP 1,5/ 3-5,08	**1730133**	50
MKDSP 1,5/ 4-5,08	**1730146**	50
MKDSP 1,5/ 5-5,08	**1730159**	50
MKDSP 1,5/ 6-5,08	**1730162**	50
MKDSP 1,5/ 7-5,08	**1730175**	50
MKDSP 1,5/ 8-5,08	**1730188**	50
MKDSP 1,5/ 9-5,08	**1730191**	50
MKDSP 1,5/10-5,08	**1730201**	50
MKDSP 1,5/11-5,08	**1730214**	50
MKDSP 1,5/12-5,08	**1730227**	50

CCA CB

Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
SMKDSP 1,5/ 2	**1733415**	250
SMKDSP 1,5/ 3	**1733428**	250
SMKDSP 1,5/ 4	**1733431**	250
SMKDSP 1,5/ 5	**1733444**	250
SMKDSP 1,5/ 6	**1733457**	50
SMKDSP 1,5/ 7	**1733460**	50
SMKDSP 1,5/ 8	**1733473**	50
SMKDSP 1,5/ 9	**1733486**	50
SMKDSP 1,5/10	**1733499**	50
SMKDSP 1,5/11	**1733509**	50
SMKDSP 1,5/12	**1733512**	50
5.08 mm pitch, color: Green		
SMKDSP 1,5/ 2-5,08	**1733570**	250
SMKDSP 1,5/ 3-5,08	**1733583**	250
SMKDSP 1,5/ 4-5,08	**1733596**	250
SMKDSP 1,5/ 5-5,08	**1733606**	250
SMKDSP 1,5/ 6-5,08	**1733619**	50
SMKDSP 1,5/ 7-5,08	**1733622**	50
SMKDSP 1,5/ 8-5,08	**1733635**	50
SMKDSP 1,5/ 9-5,08	**1733648**	50
SMKDSP 1,5/10-5,08	**1733651**	50
SMKDSP 1,5/11-5,08	**1733664**	50
SMKDSP 1,5/12-5,08	**1733677**	50

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Connection cross section of up to 1.5 mm²



– 5.0 or 5.08 mm pitch

MKDSFW 1,5/...
– Horizontal series with vertical connection direction to the PCB
– with stand-off/offset

MKDS 1,5-B
– PCB terminal block with internally bridged soldering metal
– Looping through common potentials irrespective of the conducting path

MKKDS 1,5/...
– Double-row type for conductor cross sections up to 1.5 mm² with horizontal connection direction

Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.

¹) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.



Metric 5 mm pitch



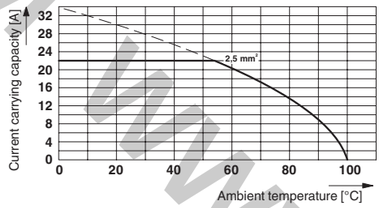
Detection lug for models with 5.08 mm inch pitch

Accessories

For all types	Type	Page
	Marker cards **SK 5/3,8 orSK 5,08/3,8**	798
	Screwdriver **SZS 0,6 x 3,5 Order No. 1205053**	
	Insertion bridge **EBP...- 5**	829

Current carrying capacity curve

Type: MKKDS 1,5/2 and MKKDS 1,5/3
Test following DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5



Technical data

		MKDSFW 1,5/ ...			MKDS 1,5/ ...-B-5,08			MKKDS 1,5/ ...		
Technical data in accordance to IEC / DIN VDE										
Rated current / conductor cross section	[A] / [mm²]	17.5¹) / 2.5			17.5¹) / 2.5			17.5¹) / 2.5		
Rated insulation voltage for pollution degree 2	[V]	400			400			400		
Pitch	[mm]	5			5.08			5 / 5.08		
Connection capacity										
Solid / stranded	[mm²] / [mm²] / AWG	0.14 - 2.5 / 0.14 - 1.5 / 26 - 14			0.14 - 2.5 / 0.14 - 1.5 / 26 - 14			0.14 - 2.5 / 0.14 - 1.5 / 26 - 14		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 1.5			0.25 - 1.5			0.25 - 1		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 1.5			0.25 - 1.5			0.25 - 1.5		
Multi-conductor connection capacity (two conductors with the same cross section)										
Solid / stranded	[mm²]	0.14 - 1 / 0.14 - 0.75			0.14 - 1 / 0.14 - 0.75			0.14 - 1 / 0.14 - 0.75		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 0.5			0.25 - 0.5			0.25 - 0.5		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 1			0.5 - 1			0.5 - 0.5		
Insulation coordination										
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250	400	630	250	400	630	250	400	630
Rated surge voltage	[kV]	4	4	4	4	4	4	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	300	-	300	300	-	300	125	-	300
Nominal current	[A]	10	-	10	10	-	10	10	-	10
Connection capacity AWG	AWG	30 - 14	-	30 - 14	30 - 14	-	30 - 14	30 - 14	-	30 - 14
Approval data (CSA)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	300	-	300	-	-	-	300	-	300
Nominal current	[A]	10	-	10	-	-	-	10	-	10
Connection capacity AWG	AWG	24 - 14	-	24 - 14	-	-	-	28 - 14	-	28 - 14
General data										
Stripping length	[mm]	8			7			7		
Screw thread		M3			M3			M3		
Tightening torque	[Nm]	0.5 - 0.6			0.5 - 0.6			0.5 - 0.6		
Type of insulation material / insulation material group		PA / I			PA / I			PA / I		
Inflammability class according to UL 94		V2			V0			V0		
Drill hole diameter / pin dimensions	[mm]	1.3 / 0,9 x 0,9 mm			1.3 / 0,9 x 0,9 mm			1.3 / 0,9 x 0,9 mm		

No. of pos.	Dim. a [mm]
2	5.00
3	10.00
2	5.08
3	10.16
2	5.08
3	10.16
2	5.08
3	10.16
2	5.08
3	10.16



Vertical connection direction with stand-off and housing overlapping

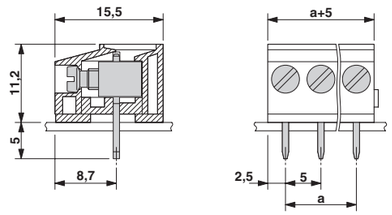


Horizontal connection direction, bridged internally, with housing overlapping

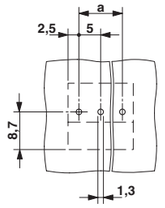


Double-level PCB terminal block with offset levels, with housing overlapping

Dimensional drawing



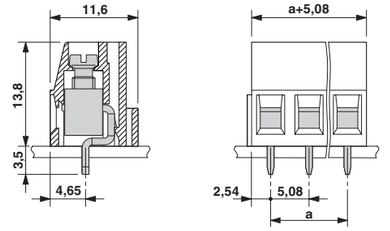
Drilling diagram



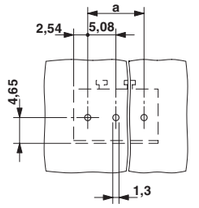
Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MKDSFW 1,5/ 2	**1717091**	50
MKDSFW 1,5/ 3	**1717088**	50

Dimensional drawing



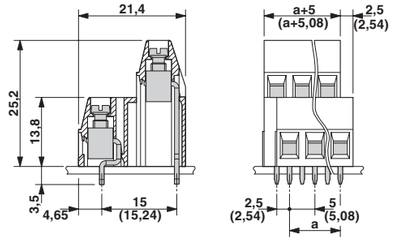
Drilling diagram



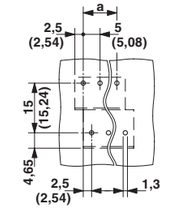
Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MKDS 1,5/ 2-B-5,08	**1868733**	50
MKDS 1,5/ 3-B-5,08	**1868746**	50
Headers, 5.08 mm pitch, color: Black		
MKDS 1,5/ 2-B-5,08 BK	**1868759**	50
MKDS 1,5/ 3-B-5,08 BK	**1868762**	50
Pitch 5.08 mm, color: Blue		
MKDS 1,5/ 2-B-5,08 BU	**1868775**	50
MKDS 1,5/ 3-B-5,08 BU	**1707865**	50
Pitch 5.08 mm, color: Green-yellow		
MKDS 1,5/ 2-B-5,08 GNYE	**1706358**	50
MKDS 1,5/ 3-B-5,08 GNYE	**1706361**	50

Dimensional drawing



Drilling diagram

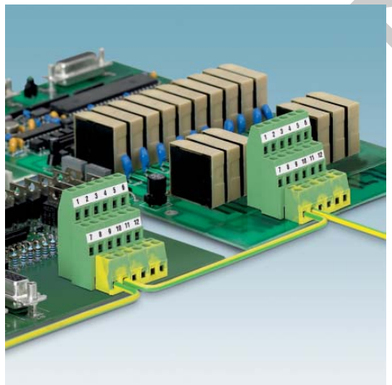


Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MKKDS 1,5/ 2	**1725012**	100
MKKDS 1,5/ 3	**1725025**	100
5.08 mm pitch, color: Green		
MKKDS 1,5/ 2-5,08	**1725038**	100
MKKDS 1,5/ 3-5,08	**1725041**	100

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Connection cross section of up to 1.5 mm²



MK3DS 1,5/…
– Three-level type with high packaging and connection density

MK3DS 1,5/…-A….
– Three-level type with internally bridged PE distributor terminal block in the lower level

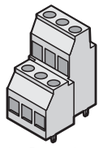
MK3DS 1,5/…-BC…
– Three-level type without distributor terminal block in the lower level
– Multi-level PCB terminal block with offset levels for optimum accessibility of the terminal points

Notes:

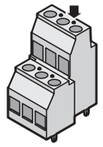
In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.

[1]) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.

[2]) 1. Level



Metric 5 mm pitch



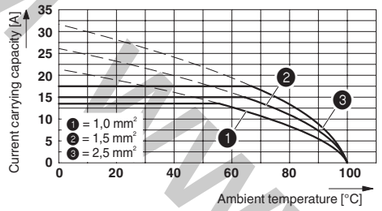
Detection lug for models with 5.08 mm inch pitch

Accessories

For all types	Type	Page
	Marker cards **SK 5,08/3,8**	798
	Screwdriver **SZS 0,6 x 3,5 Order No. 1205053**	
	Insertion bridge **EBP...- 5**	829

Current carrying capacity curve

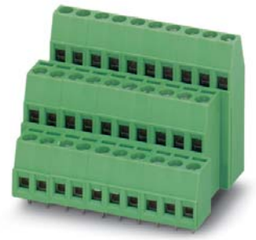
Type: MK3DS 1,5/...-5,08
Test following DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5



Technical data

		MK3DS 1,5/ ...-5,08			MK3DS 1,5/ ...-5,08-A-GNYE			MK3DS 1,5/ ...-5,08-BC		
Technical data in accordance to IEC / DIN VDE										
Rated current / conductor cross section	[A] / [mm²]	15[1]) / 2.5			15[1]) / 2.5			15[1]) / 2.5		
Rated insulation voltage for pollution degree 2	[V]	400			400			400		
Pitch	[mm]	5.08			5.08			5.08		
Connection capacity										
Solid / stranded	[mm²] / [mm²] / AWG	0.14 - 2.5 / 0.14 - 1.5 / 26 - 14			0.14 - 2.5 / 0.14 - 1.5 / 26 - 14			0.14 - 2.5 / 0.14 - 1.5 / 26 - 14		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 1.5			0.25 - 1.5			0.25 - 1.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 1.5			0.25 - 1.5			0.25 - 1.5		
Multi-conductor connection capacity (two conductors with the same cross section)										
Solid / stranded	[mm²]	0.14 - 1 / 0.14 - 0.75			0.14 - 1 / 0.14 - 0.75			0.14 - 1 / 0.14 - 0.75		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 0.5			0.25 - 0.5			0.25 - 0.5		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 0.5[2])			0.5 - 0.5			0.5 - 0.5		
Insulation coordination										
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250	400	630	250	400	630	250	400	630
Rated surge voltage	[kV]	4	4	4	4	4	4	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	125	-	300	125	-	300	125	-	300
Nominal current	[A]	10	-	10	10	-	10	10	-	10
Connection capacity AWG	AWG	30 - 14	-	30 - 14	30 - 14	-	30 - 14	30 - 14	-	30 - 14
Approval data (CSA)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	300	-	300	-	-	-	-	-	-
Nominal current	[A]	10	-	10	-	-	-	-	-	-
Connection capacity AWG	AWG	28 - 14	-	28 - 14	-	-	-	-	-	-
General data										
Stripping length	[mm]	7			7			7		
Screw thread		M3			M3			M3		
Tightening torque	[Nm]	0.5 - 0.6			0.5 - 0.6			0.5 - 0.6		
Type of insulation material / insulation material group		PA / I			PA / I			PA / I		
Inflammability class according to UL 94		V0			V0			V0		
Drill hole diameter / pin dimensions	[mm]	1.3 / 0,9 x 0,9 mm			1.3 / 0,9 x 0,9 mm			1.3 / 0,9 x 0,9 mm		

No. of pos.	Dim. a [mm]
2	5.08
3	10.16



With offset levels and housing overlapping

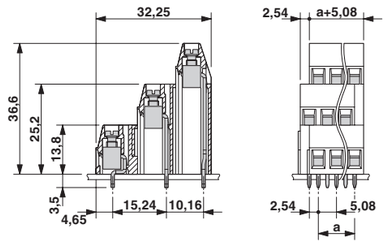


With internally bridged PE distributor terminal block in the lower level, with housing overlapping

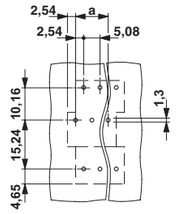


Without distributor terminal block in the lower level, with housing overlapping

Dimensional drawing



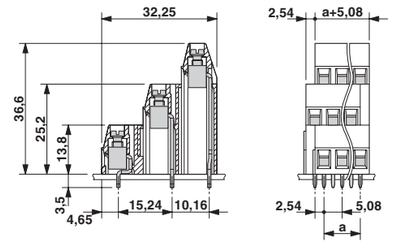
Drilling diagram



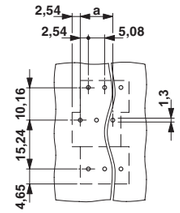
Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MK3DS 1,5/ 2-5,08	**1724013**	100
MK3DS 1,5/ 3-5,08	**1724026**	100

Dimensional drawing



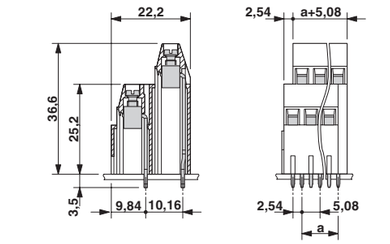
Drilling diagram



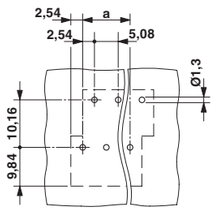
Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green/green-yellow		
MK3DS 1,5/ 2-5,08-A-GNYE	**1868717**	50
MK3DS 1,5/ 3-5,08-A-GNYE	**1868720**	50

Dimensional drawing



Drilling diagram

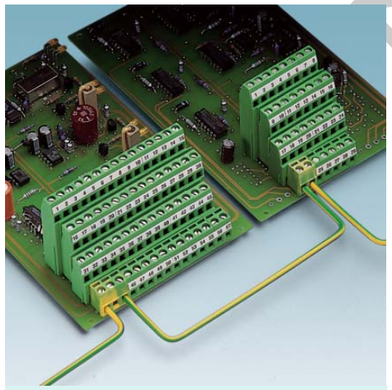


Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MK3DS 1,5/ 2-5,08-BC	**1706413**	50
MK3DS 1,5/ 3-5,08-BC	**1706426**	50

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Connection cross section of up to 1.5 mm²



– 5.08 mm pitch

MK4DS 1,5 /….
– Four-level type with high packaging and connection density

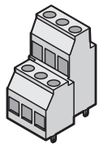
MK4DS 1,5/…-A…
– Four-level type with internally bridged PE distributor terminal block in the lower level

MK4DS 1,5/…-BCD…
– Four-level type without distributor terminal block in the lower level
– Multi-level PCB terminal block with offset levels for optimum accessibility of the terminal points

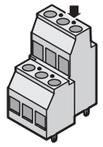
Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.

¹) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.



Metric 5 mm pitch



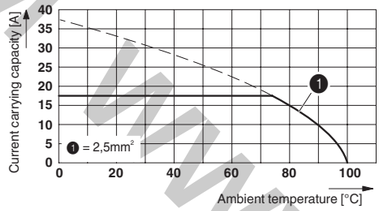
Detection lug for models with 5.08 mm inch pitch

Accessories

For all types	Type	Page
	Marker cards **SK 5/3,8 orSK 5,08/3,8**	798
	Screwdriver **SZS 0,6 x 3,5 Order No. 1205053**	
	Insertion bridge **EBP...- 5**	829

Current carrying capacity curve

Type: MK4DS 1,5/2-5,08 and MK4DS 1,5/3-5,08
Test following DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5



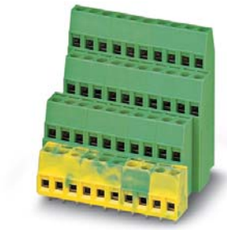
No. of pos.	Dim. a [mm]
2	5.08
3	10.16

Technical data

		MK4DS 1,5/ ...-5,08			MK4DS 1,5/ ...-5,08-A GNYE			MK4DS 1,5/ ...-5,08-BCD		
Technical data in accordance to IEC / DIN VDE										
Rated current / conductor cross section	[A] / [mm²]	15¹) / 2.5			15¹) / 2.5			15¹) / 2.5		
Rated insulation voltage for pollution degree 2	[V]	400			400			400		
Pitch	[mm]	5.08			5.08			5.08		
Connection capacity										
Solid / stranded	[mm²] / [mm²] / AWG	0.14 - 2.5 / 0.14 - 1.5 / 26 - 14			0.14 - 2.5 / 0.14 - 1.5 / 26 - 14			0.14 - 2.5 / 0.14 - 1.5 / 26 - 14		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 1.5			0.25 - 1.5			0.25 - 1.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 1.5			0.25 - 1.5			0.25 - 1.5		
Multi-conductor connection capacity (two conductors with the same cross section)										
Solid / stranded	[mm²]	0.14 - 1 / 0.14 - 0.75			0.14 - 1 / 0.14 - 0.75			0.14 - 1 / 0.14 - 0.75		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 0.5			0.25 - 0.5			0.25 - 0.5		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 0.5			0.5 - 0.5			0.5 - 0.5		
Insulation coordination										
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250	400	630	250	400	630	250	400	630
Rated surge voltage	[kV]	4	4	4	4	4	4	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	125	-	300	125	-	300	125	-	300
Nominal current	[A]	10	-	10	10	-	10	10	-	10
Connection capacity AWG	AWG	30 - 14	-	30 - 14	30 - 14	-	30 - 14	30 - 14	-	30 - 14
Approval data (CSA)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-	-	-	-
General data										
Stripping length	[mm]	7			7			7		
Screw thread		M3			M3			M3		
Tightening torque	[Nm]	0.5 - 0.6			0.5 - 0.6			0.5 - 0.6		
Type of insulation material / insulation material group		PA / I			PA / I			PA / I		
Inflammability class according to UL 94		V0			V0			V0		
Drill hole diameter / pin dimensions	[mm]	1.3 / 0,9 x 0,9 mm			1.3 / 0,9 x 0,9 mm			1.3 / 0,9 x 0,9 mm		



With offset levels and housing overlapping

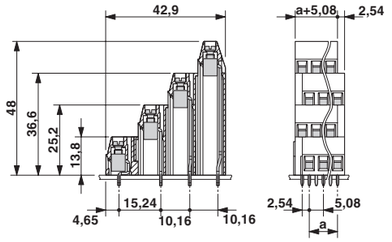


With internally bridged PE distributor terminal block in the lower level and housing overlapping

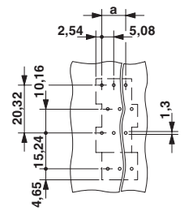


Without distributor terminal block in the lower level, with housing overlapping

Dimensional drawing



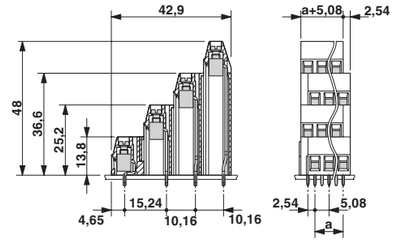
Drilling diagram



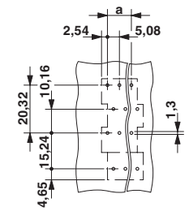
Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MK4DS 1,5/ 2-5,08	**1868827**	50
MK4DS 1,5/ 3-5,08	**1868830**	50

Dimensional drawing



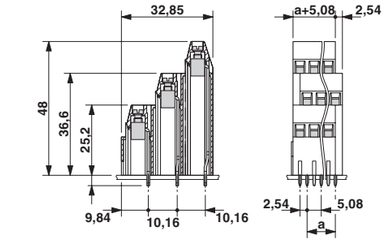
Drilling diagram



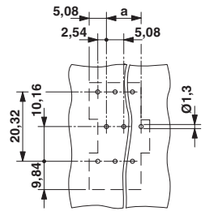
Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green/green-yellow		
MK4DS 1,5/ 2-5,08-A GNYE	**1707001**	50
MK4DS 1,5/ 3-5,08-A GNYE	**1707140**	50

Dimensional drawing



Drilling diagram

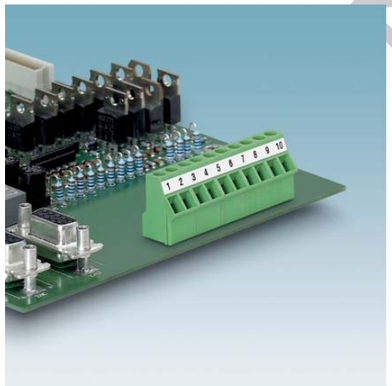


Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MK4DS 1,5/ 2-5,08-BCD	**1706947**	50
MK4DS 1,5/ 3-5,08-BCD	**1706950**	50

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Connection cross section of up to 2.5 mm²



MKDSN 2,5/…
– Low design, generously dimensioned 2.5 mm² connection cross section
– 5.0 or 5.08 mm pitch
– +/- screw

SMKDS 2,5/...
– Conductor connection at an angle of 40° to the PCB
– Screwdriver axis vertical to the PCB
– 5.08 mm pitch

Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.

¹) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.



Metric 5 mm pitch



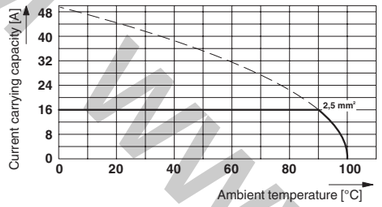
Detection lug for models with 5.08 mm inch pitch

Accessories

For all types	Type	Page
	Marker cards **SK 5/3,8 orSK 5,08/3,8**	798
	Screwdriver **SZS 0,6 x 3,5 Order No. 1205053**	
	Insertion bridge **EBP...- 5**	829

Current carrying capacity curve

Type: MKDSN 2,5/2
Test following DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5



No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00
2	5.08
3	10.16
4	15.24
5	20.32
6	25.40
7	30.48
8	35.56
9	40.64
10	45.72

Technical data

		MKDSN 2,5/ ...			SMKDS 2,5/ ...-5,08		
Technical data in accordance to IEC / DIN VDE							
Rated current / conductor cross section	[A] / [mm²]	16¹) / 2.5			20¹) / 2.5		
Rated insulation voltage for pollution degree 2	[V]	400			400		
Pitch	[mm]	5 / 5.08			5.08		
Connection capacity							
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 2.5 / 0.2 - 2.5 / 24 - 14			0.14 - 2.5 / 0.14 - 2.5 / 26 - 14		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 2.5			0.25 - 2.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 2.5			0.25 - 2.5		
Multi-conductor connection capacity (two conductors with the same cross section)							
Solid / stranded	[mm²]	0.2 - 0.75 / 0.2 - 0.75			0.14 - 0.75 / 0.14 - 0.75		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 0.75			0.25 - 0.75		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 1.5			0.5 - 1.5		
Insulation coordination							
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250	400	630	250	400	630
Rated surge voltage	[kV]	4	4	4	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	300	-	300	250	-	300
Nominal current	[A]	20	-	15	10	-	10
Connection capacity AWG	AWG	30 - 12	-	30 - 12	30 - 12	-	30 - 12
Approval data (CSA)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	300	-	300
Nominal current	[A]	-	-	-	10	-	10
Connection capacity AWG	AWG	-	-	-	28 - 12	-	28 - 12
General data							
Stripping length	[mm]	6.5			11		
Screw thread		M3			M3		
Tightening torque	[Nm]	0.5 - 0.6			0.5 - 0.6		
Type of insulation material / insulation material group		PA / I			PA / I		
Inflammability class according to UL 94		V0			V0		
Drill hole diameter / pin dimensions	[mm]	1.3 / 0,8 x 0,9 mm			1.4 / 1 x 0,9 mm		

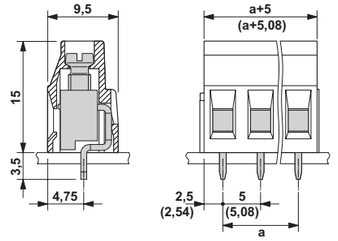


Low-profile design, with housing overlapping

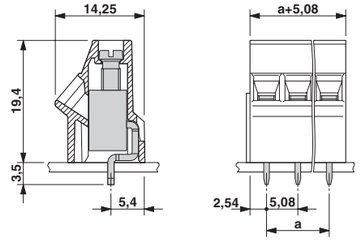


With 40° angled connection direction and housing overlapping

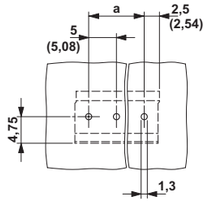
Dimensional drawing



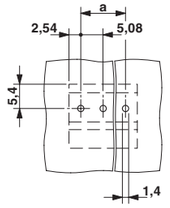
Dimensional drawing



Drilling diagram



Drilling diagram



Ordering data

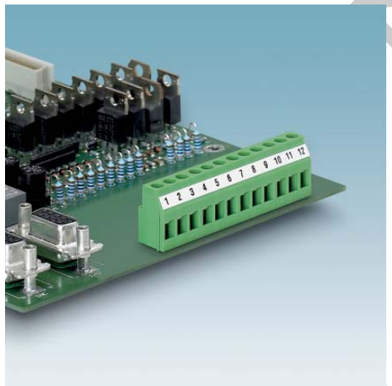
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MKDSN 2,5/ 2	**1890963**	250
MKDSN 2,5/ 3	**1890976**	250
MKDSN 2,5/ 4	**1890989**	250
5.08 mm pitch, color: Green		
MKDSN 2,5/ 2-5,08	**1888687**	250
MKDSN 2,5/ 3-5,08	**1888690**	250
MKDSN 2,5/ 4-5,08	**1888700**	250

Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
SMKDS 2,5/ 2-5,08	**1705469**	50
SMKDS 2,5/ 3-5,08	**1705472**	50
SMKDS 2,5/ 4-5,08	**1995664**	50
SMKDS 2,5/ 5-5,08	**1702558**	50
SMKDS 2,5/ 6-5,08	**1736777**	50
SMKDS 2,5/ 7-5,08	**1766174**	50
SMKDS 2,5/ 8-5,08	**1736845**	50
SMKDS 2,5/ 9-5,08	**1701626**	50
SMKDS 2,5/10-5,08	**1736780**	50

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Connection cross section of up to 2.5 mm²



– Standard PCB terminal blocks with 5.0 or 5.08 mm pitch

MKDS 3/...-B-5,08
– Distributor terminal block with an internally bridged soldering metal
– Looping through common potentials irrespective of the conducting path

MKDSP 3/...
– With integrated test connection to accommodate 2 mm Ø test pins or 2.3 mm Ø test plugs

Notes:
In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.
1) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.



Metric 5 mm pitch



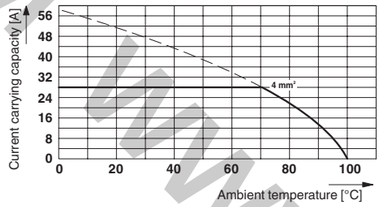
Detection lug for models with 5.08 mm inch pitch

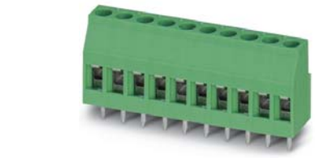
Accessories

For all types	Type	Page
	Marker cards **SK 5/3,8 orSK 5,08/3,8**	798
	Screwdriver **SZS 0,6 x 3,5 Order No. 1205053**	
	Insertion bridge **EBP...- 5**	829
	Single cover for individual terminal positions **EA-MKDS Order No. 1711408**	
Only for MKDS 3		
	Pitch spacer, width 1.25 mm **RZ 1,25-MKDS 3 Order No. 1703047**	
Only for MKDSP 3		
	Test plug **MPS**	831

Current carrying capacity curve

Type: MKDS 3/2 and MKDS 3/3
Test following DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5

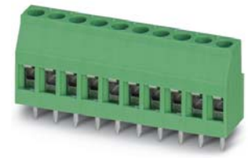




With housing overlapping



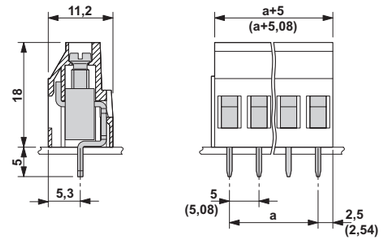
With housing overlapping, bridged internally



With housing overlapping and test connection

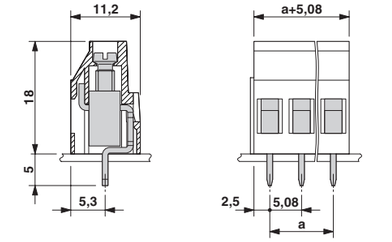
CCA

Dimensional drawing



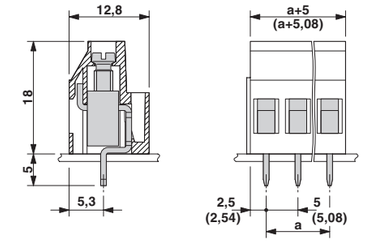
CCA CB

Dimensional drawing

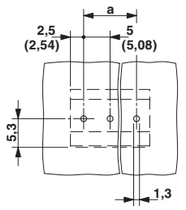


CCA

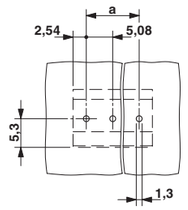
Dimensional drawing



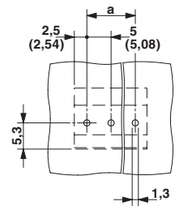
Drilling diagram



Drilling diagram



Drilling diagram



Technical data

		MKDS 3/ ...			MKDS 3/ ...-B-5,08			MKDSP 3/ ...		
Technical data in accordance to IEC / DIN VDE										
Rated current / conductor cross section	[A] / [mm²]	24[1]) / 4			24[1]) / 4			24[1]) / 4		
Rated insulation voltage for pollution degree 2	[V]	400			400			400		
Pitch	[mm]	5 / 5.08			5.08			5 / 5.08		
Connection capacity										
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 4 / 0.2 - 2.5 / 24 - 12			0.2 - 4 / 0.2 - 2.5 / 24 - 12			0.2 - 4 / 0.2 - 2.5 / 24 - 12		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 2.5			0.25 - 2.5			0.25 - 2.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 2.5			0.25 - 2.5			0.25 - 2.5		
Multi-conductor connection capacity (two conductors with the same cross section)										
Solid / stranded	[mm²]	0.2 - 1.5 / 0.2 - 1.5			0.2 - 1.5 / 0.2 - 1.5			0.2 - 1.5 / 0.2 - 1.5		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 0.75			0.25 - 0.75			0.25 - 0.75		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 1.5			0.5 - 1.5			0.5 - 1.5		
Insulation coordination										
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250	400	630	250	400	630	250	400	630
Rated surge voltage	[kV]	4	4	4	4	4	4	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	300	-	300	300	-	300	250	-	300
Nominal current	[A]	15	-	10	15	-	10	15	-	10
Connection capacity AWG	AWG	30 - 12	-	30 - 12	30 - 12	-	30 - 12	30 - 12	-	30 - 12
Approval data (CSA)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	300	-	300	300	-	300	300	-	300
Nominal current	[A]	10	-	10	10	-	10	10	-	10
Connection capacity AWG	AWG	28 - 12	-	28 - 12	28 - 12	-	28 - 12	28 - 12	-	28 - 12
General data										
Stripping length	[mm]	8			8			8		
Screw thread		M3			M3			M3		
Tightening torque	[Nm]	0.5 - 0.6			0.5 - 0.6			0.5 - 0.6		
Type of insulation material / insulation material group		PA / I			PA / I			PA / II		
Inflammability class according to UL 94		V0			V0			V0		
Drill hole diameter / pin dimensions	[mm]	1.3 / 0,9 x 0,9 mm			1.3 / 0,9 x 0,9 mm			1.3 / 0,9 x 0,9 mm		

No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00
2	5.08
3	10.16
4	15.24
2	5.08
3	10.16
2	5.08
3	10.16
2	5.08
3	10.16

Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MKDS 3/ 2	**1711026**	100
MKDS 3/ 3	**1711039**	100
MKDS 3/ 4	**1711042**	50
5.08 mm pitch, color: Green		
MKDS 3/ 2-5,08	**1711725**	100
MKDS 3/ 3-5,08	**1711738**	100
MKDS 3/ 4-5,08	**1712805**	50

Ordering data

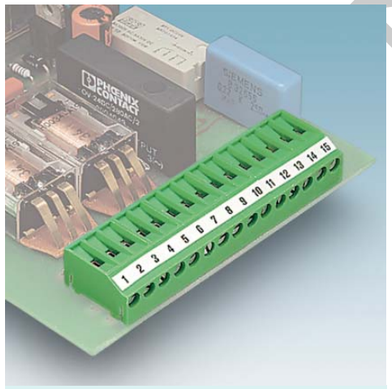
Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MKDS 3/ 2-B-5,08	**1707904**	50
MKDS 3/ 3-B-5,08	**1707917**	50
Headers, 5.08 mm pitch, color: Black		
MKDS 3/ 2-B-5,08 BK	**1706455**	50
MKDS 3/ 3-B-5,08 BK	**1706468**	50
Pitch 5.08 mm, color: Blue		
MKDS 3/ 2-B-5,08 BU	**1706439**	50
MKDS 3/ 3-B-5,08 BU	**1706442**	50
Pitch 5.08 mm, color: Green-yellow		
MKDS 3/ 2-B-5,08 GNYE	**1706471**	50
MKDS 3/ 3-B-5,08 GNYE	**1706484**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MKDSP 3/ 2	**1714023**	50
MKDSP 3/ 3	**1714036**	50
5.08 mm pitch, color: Green		
MKDSP 3/ 2-5,08	**1714722**	50
MKDSP 3/ 3-5,08	**1714735**	50

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Connection cross section of up to 2.5 mm²



SMKDS 3/...
- Conductor and screwdriver axis at an angle of 35° to the PCB
- An arrangement of several terminal block rows one behind the other – multi-level effect with the same design

MKDSFW 3/... and MKDSF 3/...
- Generously dimensioned wiring space, solid conductor up to 4 mm²
- Horizontal series with vertical connection direction to the PCB
- MKDSFW 1.5 with stand-off/offset
- MKDSF 3 with an angled solder pin guided backwards out of the housing

Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.

¹) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.



Metric 5 mm pitch



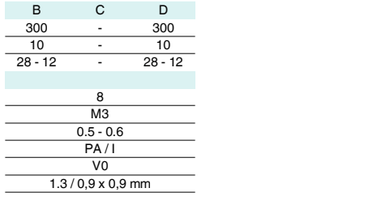
Detection lug for models with 5.08 mm inch pitch

Accessories

For all types	Type	Page
	Marker cards **SK 5/3,8 orSK 5,08/3,8**	798
	Screwdriver **SZS 0,6 x 3,5 Order No. 1205053**	
	Insertion bridge **EBP...- 5**	829
	Test plug **SPB 5-MKDS 3 Order No. 1301216**	833
Only for MKDSF 3		
	Single cover for individual terminal positions **EA-MKDS Order No. 1711408**	

Current carrying capacity curve

Type: SMKDS 3/2 and SMKDS 3/3
Test following DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5





With 35° angled connection direction and housing overlapping



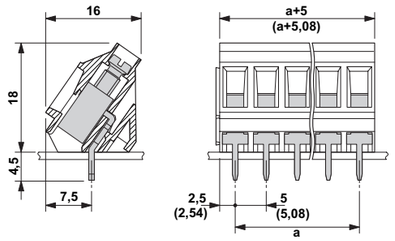
With stand-off and housing overlapping



With angled solder pin and housing overlapping

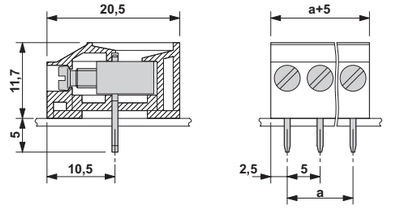
CCA

Dimensional drawing



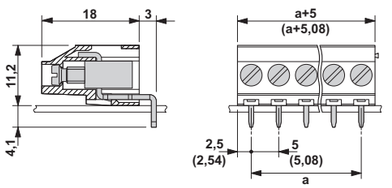
CCA

Dimensional drawing

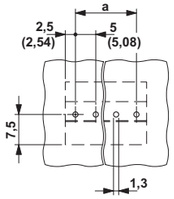


CCA

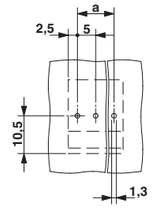
Dimensional drawing



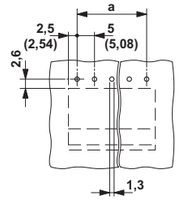
Drilling diagram



Drilling diagram



Drilling diagram



No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00
6	25.00
8	35.00
12	55.00
2	5.08
3	10.16
4	15.24
6	25.40

Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
SMKDS 3/ 2	**1713024**	100
SMKDS 3/ 3	**1713037**	100
SMKDS 3/ 4	**1713082**	100
SMKDS 3/ 6	**1713121**	50
SMKDS 3/ 8	**1713066**	50
SMKDS 3/12	**1713105**	50
5.08 mm pitch, color: Green		
SMKDS 3/ 2-5,08	**1713723**	100
SMKDS 3/ 3-5,08	**1713736**	100
SMKDS 3/ 4-5,08	**1713040**	100
SMKDS 3/ 6-5,08	**1713286**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MKDSFW 3/ 2	**1771529**	50
MKDSFW 3/ 3	**1771260**	50

Ordering data

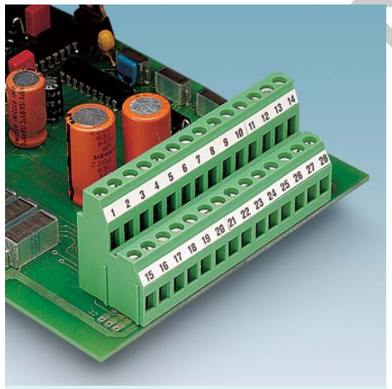
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MKDSF 3/ 2	**1712025**	50
MKDSF 3/ 3	**1712038**	50
MKDSF 3/ 4	**1712041**	50
MKDSF 3/ 8	**1712083**	50
MKDSF 3/12	**1712122**	50
5.08 mm pitch, color: Green		
MKDSF 3/ 2-5,08	**1712724**	50
MKDSF 3/ 3-5,08	**1712737**	50

Technical data

		SMKDS 3/ ...			MKDSFW 3/ ...			MKDSF 3/ ...		
Technical data in accordance to IEC / DIN VDE										
Rated current / conductor cross section	[A] / [mm²]	24¹) / 4			24¹) / 4			24¹) / 4		
Rated insulation voltage for pollution degree 2	[V]	400			400			400		
Pitch	[mm]	5 / 5.08			5			5 / 5.08		
Connection capacity										
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 4 / 0.2 - 2.5 / 24 - 12			0.2 - 4 / 0.2 - 2.5 / 24 - 12			0.2 - 4 / 0.2 - 2.5 / 24 - 12		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 2.5			0.25 - 1			0.25 - 2.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 2.5			0.25 - 1			0.25 - 2.5		
Multi-conductor connection capacity (two conductors with the same cross section)										
Solid / stranded	[mm²]	0.2 - 1.5 / 0.2 - 1.5			0.2 - 1.5 / 0.2 - 1.5			0.2 - 1.5 / 0.2 - 1.5		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 0.75			0.25 - 0.75			0.25 - 0.75		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 1.5			0.5 - 1.5			0.5 - 1.5		
Insulation coordination										
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250	400	630	250	400	630	250	400	630
Rated surge voltage	[kV]	4	4	4	4	4	4	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	250	-	300	250	-	300	250	-	300
Nominal current	[A]	15	-	10	16	-	10	15	-	10
Connection capacity AWG	AWG	30 - 12	-	30 - 12	30 - 12	-	30 - 12	30 - 12	-	30 - 12
Approval data (CSA)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	300	-	300	300	-	300	300	-	300
Nominal current	[A]	10	-	10	10	-	10	10	-	10
Connection capacity AWG	AWG	28 - 12	-	28 - 12	28 - 12	-	28 - 12	28 - 12	-	28 - 12
General data										
Stripping length	[mm]	8			8			8		
Screw thread		M3			M3			M3		
Tightening torque	[Nm]	0.5 - 0.6			0.5 - 0.6			0.5 - 0.6		
Type of insulation material / insulation material group		PA / I			PA / I			PA / I		
Inflammability class according to UL 94		V0			V2			V0		
Drill hole diameter / pin dimensions	[mm]	1.3 / 0,9 x 0,9 mm			1.3 / 0,9 x 0,9 mm			1.3 / 0,9 x 0,9 mm		

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Connection cross section of up to 2.5 mm²

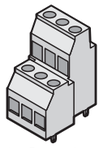


MKKDS 3/…
- Double-level type with high packaging and connection density
- Offset levels for optimum accessibility of the terminal points

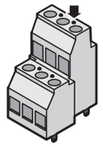
MKKDSG 3/...
- Double-level type with high packaging and connection density
- Non-offset levels for space-saving installation in device housings

MKKDSH 3/...
- Single-row type, back level of the double-level PCB terminal block

Notes:
In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.
1) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.



Metric 5 mm pitch



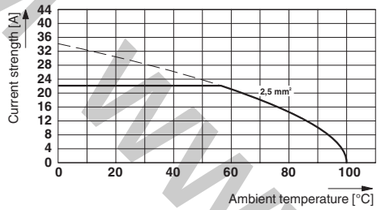
Detection lug for models with 5.08 mm inch pitch

Accessories

For all types	Type	Page
	Marker cards **SK 5/3,8 orSK 5,08/3,8**	798
	Screwdriver **SZS 0,6 x 3,5 Order No. 1205053**	
	Single cover for individual terminal positions **EA-MKDS Order No. 1711408**	
	Insertion bridge **EBP...- 5**	829
	Test plug **SPB 5-MKDS 3 Order No. 1301216**	833

Current carrying capacity curve

Type: MKKDS 3/2 and MKKDS 3/3
Test following DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5



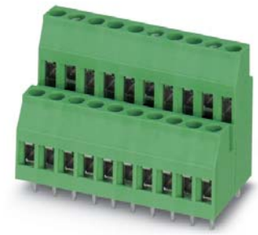
Technical data

		MKKDS 3/ ...			MKKDSG 3/ ...			MKKDSH 3/ ...		
Technical data in accordance to IEC / DIN VDE										
Rated current / conductor cross section	[A] / [mm²]	22¹) / 4			17.5¹) / 4			24¹) / 4		
Rated insulation voltage for pollution degree 2	[V]	400			400			400		
Pitch	[mm]	5 / 5.08			5			5		
Connection capacity										
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 4 / 0.2 - 2.5 / 24 - 12			0.2 - 4 / 0.2 - 2.5 / 24 - 12			0.2 - 4 / 0.2 - 2.5 / 24 - 12		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 1.5			0.25 - 1.5			0.25 - 1.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 2.5			0.25 - 2.5			0.25 - 2.5		
Multi-conductor connection capacity (two conductors with the same cross section)										
Solid / stranded	[mm²]	0.2 - 1.5 / 0.2 - 1.5			0.2 - 1.5 / 0.2 - 1.5			0.2 - 1.5 / 0.2 - 1.5		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 0.75			0.25 - 0.75			0.25 - 0.75		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 0.5			0.5 - 0.5			0.5 - 1.5		
Insulation coordination										
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250	400	630	250	400	630	250	400	630
Rated surge voltage	[kV]	4	4	4	4	4	4	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	125	-	300	125	-	300	125	-	300
Nominal current	[A]	15	-	10	10	-	10	15	-	10
Connection capacity AWG	AWG	30 - 12	-	30 - 12	30 - 12	-	30 - 12	30 - 12	-	30 - 12
Approval data (CSA)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	300	-	300	300	-	300	-	-	-
Nominal current	[A]	10	-	10	10	-	10	-	-	-
Connection capacity AWG	AWG	28 - 12	-	28 - 12	28 - 12	-	28 - 12	-	-	-
General data										
Stripping length	[mm]	7			7			7		
Screw thread		M3			M3			M3		
Tightening torque	[Nm]	0.5 - 0.6			0.5 - 0.6			0.5 - 0.6		
Type of insulation material / insulation material group		PA / I			PA / I			PA / I		
Inflammability class according to UL 94		V0			V0			V0		
Drill hole diameter / pin dimensions	[mm]	1.3 / 0,9 x 0,9 mm			1.3 / 0,9 x 0,9 mm			1.3 / 0,9 x 0,9 mm		

No. of pos.	Dim. a [mm]
2	5.00
3	10.00
2	5.08
3	10.16



Double-level PCB terminal block with offset levels, with housing overlapping

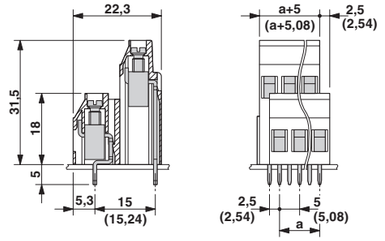


Double-level PCB terminal blocks without offset levels, with housing overlapping

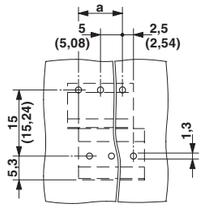


High PCB terminal block with housing overlapping

Dimensional drawing



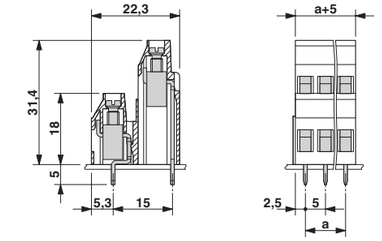
Drilling diagram



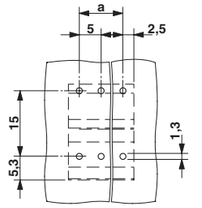
Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MKKDS 3/ 2	**1721029**	50
MKKDS 3/ 3	**1721032**	50
5.08 mm pitch, color: Green		
MKKDS 3/ 2-5,08	**1721728**	50
MKKDS 3/ 3-5,08	**1721731**	50

Dimensional drawing



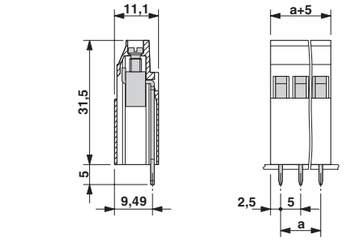
Drilling diagram



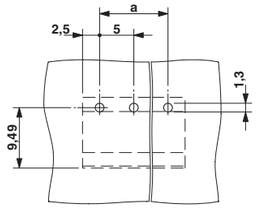
Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MKKDSG 3/ 2	**1721090**	50
MKKDSG 3/ 3	**1721087**	50

Dimensional drawing



Drilling diagram

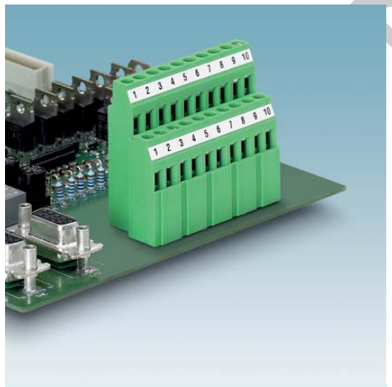


Ordering data

Type	Order No.	Pcs. / Pkt.
Printed circuit termination block, for soldering into the printed circuit board, 5.0 mm pitch		
MKKDSH 3/ 2	**1721045**	50
MKKDSH 3/ 3	**1721346**	50

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Connection cross section of up to 2.5 mm²



MK3DS 3/...
- Three-level type with high packaging and connection density
- Offset levels for optimum accessibility of the terminal points

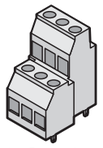
MKKDSH 3/...
- Single-row type, back level of the three-level PCB terminal block
- The high types are suitable for applications with molded PCBs

MKKDSMH 3/...
- Double-row type, middle and back level of the three-level PCB terminal block

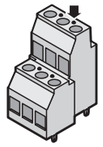
Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.

¹) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.



Metric 5 mm pitch



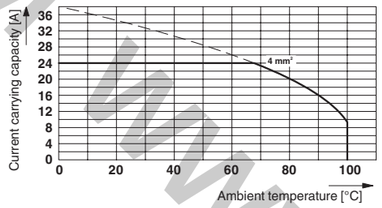
Detection lug for models with 5.08 mm inch pitch

Accessories

For all types	Type	Page
	Marker cards **SK 5,08/3,8**	798
	Screwdriver **SZS 0,6 x 3,5 Order No. 1205053**	
	Single cover for individual terminal positions **EA-MKDS Order No. 1711408**	
	Insertion bridge **EBP...- 5**	829
	Test plug **SPB 5-MKDS 3 Order No. 1301216**	833

Current carrying capacity curve

Type: MK3DS 3/2 and MK3DS 3/3
Test following DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5





Three-level PCB terminal block with offset levels, with housing overlapping

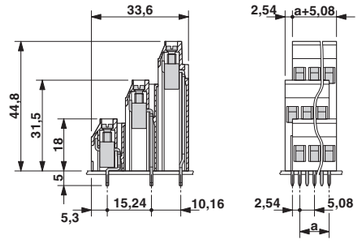


High PCB terminal block with housing overlapping

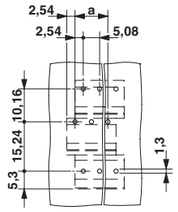


High double-level PCB terminal block with offset levels and housing overlapping

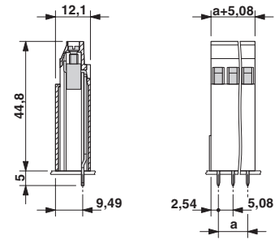
Dimensional drawing



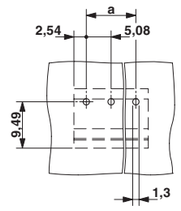
Drilling diagram



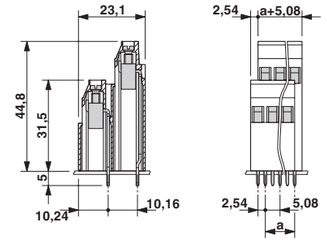
Dimensional drawing



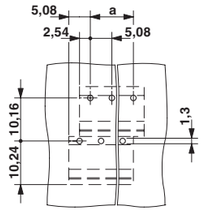
Drilling diagram



Dimensional drawing



Drilling diagram



Technical data

		MK3DS 3/ ...-5,08			MK3DSH 3/ ...-5,08			MK3DSMH 3/ ...-5,08		
Technical data in accordance to IEC / DIN VDE										
Rated current / conductor cross section	[A] / [mm²]	17.5¹) / 4			24¹) / 4			22¹) / 4		
Rated insulation voltage for pollution degree 2	[V]	400			400			400		
Pitch	[mm]	5.08			5.08			5.08		
Connection capacity										
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 4 / 0.2 - 2.5 / 24 - 12			0.2 - 4 / 0.2 - 2.5 / 24 - 12			0.2 - 4 / 0.2 - 2.5 / 24 - 12		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 1.5			0.25 - 1.5			0.25 - 1.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 2.5			0.25 - 2.5			0.25 - 2.5		
Multi-conductor connection capacity (two conductors with the same cross section)										
Solid / stranded	[mm²]	0.2 - 1.5 / 0.2 - 1.5			0.2 - 1.5 / 0.2 - 1.5			0.2 - 1.5 / 0.2 - 1.5		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 0.75			0.25 - 0.75			0.25 - 0.75		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 0.5			0.5 - 1.5			0.5 - 0.5		
Insulation coordination										
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250	400	630	250	400	630	250	400	630
Rated surge voltage	[kV]	4	4	4	4	4	4	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	125	-	300	125	-	300	125	-	300
Nominal current	[A]	20	-	10	15	-	10	15	-	10
Connection capacity AWG	AWG	30 - 12	-	30 - 12	30 - 12	-	30 - 12	30 - 12	-	30 - 12
Approval data (CSA)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	300	-	300	-	-	-	-	-	-
Nominal current	[A]	10	-	10	-	-	-	-	-	-
Connection capacity AWG	AWG	28 - 12	-	28 - 12	-	-	-	-	-	-
General data										
Stripping length	[mm]	7			7			7		
Screw thread		M3			M3			M3		
Tightening torque	[Nm]	0.5 - 0.6			0.5 - 0.6			0.5 - 0.6		
Type of insulation material / insulation material group		PA / I			PA / I			PA / I		
Inflammability class according to UL 94		V0			V0			V0		
Drill hole diameter / pin dimensions	[mm]	1.3 / 0,9 x 0,9 mm			1.3 / 0,9 x 0,9 mm			1.3 / 0,9 x 0,9 mm		

No. of pos.	Dim. a [mm]
2	5.08
3	10.16

Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MK3DS 3/ 2-5,08	**1723014**	50
MK3DS 3/ 3-5,08	**1723027**	50

Ordering data

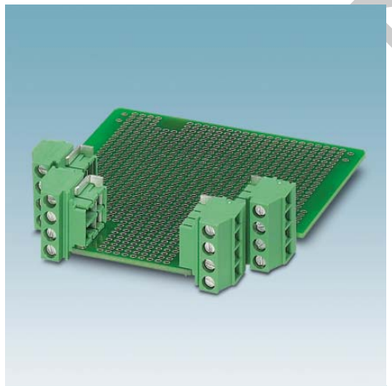
Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MK3DSH 3/ 2-5,08	**1723182**	50
MK3DSH 3/ 3-5,08	**1723195**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MK3DSMH 3/ 2-5,08	**1723205**	50
MK3DSMH 3/ 3-5,08	**1723218**	50

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Connection cross section of up to 2.5 mm²



- PCB terminal block for ME/ME MAX electronic housing
- PCB terminal block is orthogonal to the PCB
- "Left“ and "right“ design
- Pitch 5 mm
- Number of positions between 2 and 4

Notes:

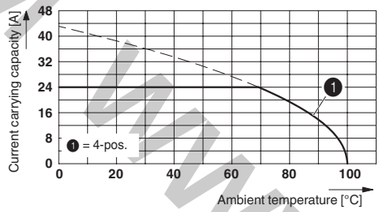
[1]) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.

Accessories

For all types	Type	Page
	Marker cards **SK 5/3,8 or SK 5,08/3,8**	798

Current carrying capacity curve

Type: MKDSO 2,5/4...L(R)
Test based on DIN EN 60512-5-2:2003-01
Reduction factor = 1
Number of positions: 4



Technical data

		MKDSO 2,5/ ...-L			MKDSO 2,5/ ...-R		
Technical data in accordance to IEC / DIN VDE							
Rated current / conductor cross section	[A] / [mm²]	24[1]) / 2.5			24[1]) / 2.5		
Rated insulation voltage for pollution degree 2	[V]	400			400		
Pitch	[mm]	5			5		
Connection capacity							
Solid / stranded	[mm²] / [mm²] / AWG	0.14 - 2.5 / 0.14 - 2.5 / 26 - 14			0.14 - 2.5 / 0.14 - 2.5 / 26 - 14		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 2.5			0.25 - 2.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 2.5			0.25 - 2.5		
Multi-conductor connection capacity (two conductors with the same cross section)							
Solid / stranded	[mm²]	0.14 - 0.75 / 0.14 - 0.75			0.14 - 0.75 / 0.14 - 0.75		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 0.75			0.25 - 0.75		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 1.5			0.5 - 1.5		
Insulation coordination							
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250	400	630	250	400	630
Rated surge voltage	[kV]	4	4	4	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	300	-	300	300	-	300
Nominal current	[A]	20	-	15	20	-	15
Connection capacity AWG	AWG	30 - 12	-	30 - 12	30 - 12	-	30 - 12
Approval data (CSA)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	300	-	300	300	-	300
Nominal current	[A]	10	-	10	10	-	10
Connection capacity AWG	AWG	28 - 12	-	28 - 12	28 - 12	-	28 - 12
General data							
Stripping length	[mm]	8			8		
Screw thread		M3			M3		
Tightening torque	[Nm]	0.5 - 0.6			0.5 - 0.6		
Type of insulation material / insulation material group		PA / I			PA / I		
Inflammability class according to UL 94		V0			V0		
Drill hole diameter / pin dimensions	[mm]	1.4 / 0,8 x 1			1.4 / 0,8 x 1		

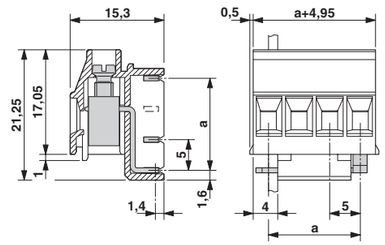


With "left" solder pins leading off at a right angle

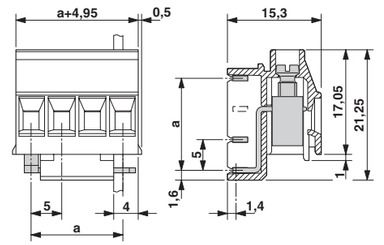


With "right" solder pins leading off at a right angle

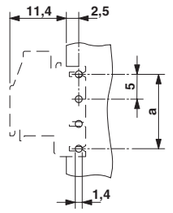
Dimensional drawing



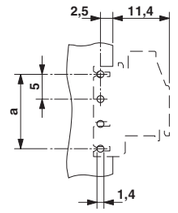
Dimensional drawing



Drilling diagram



Drilling diagram



No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00
2	5.00
3	10.00
4	15.00

Ordering data

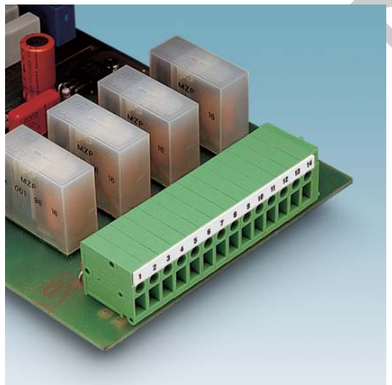
Type	Order No.	Pcs. / Pkt.
PCB terminal block, 5 mm pitch, color: green		
MKDSO 2,5/ 2-L	**1707205**	250
MKDSO 2,5/ 3-L	**1707221**	250
MKDSO 2,5/ 4-L	**1707234**	250
PCB terminal block, left, 5 mm pitch, color: light gray		
MKDSO 2,5/ 2-L KMGY	**2915261**	250
MKDSO 2,5/ 3-L KMGY	**2854102**	250
MKDSO 2,5/ 4-L KMGY	**2908485**	250

Ordering data

Type	Order No.	Pcs. / Pkt.
PCB terminal block, right, 5 mm pitch, color: green		
MKDSO 2,5/ 2-R	**1707195**	250
MKDSO 2,5/ 3-R	**1707218**	250
MKDSO 2,5/ 4-R	**1707247**	250
PCB terminal block, right, 5 mm pitch, color: light gray		
MKDSO 2,5/ 2-R KMGY	**2915258**	250
MKDSO 2,5/ 3-R KMGY	**2854092**	250
MKDSO 2,5/ 4-R KMGY	**2908472**	250

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Front screw connections up to 2.5 mm²



- Screw terminal blocks with a front conductor connection
- Generously dimensioned connection cross section up to 2.5 mm²
- Double solder pin for high stability on the PCB
- Voltage increase through the use of pitch spacers.
- For flush mounting in the front of devices
- Horizontal and vertical types

Notes:

1) 400 V is achieved when the pitch spacer RZ 2,5-FRONT 2,5-H(V) is inserted.

2) Current carrying capacity curve upon request.

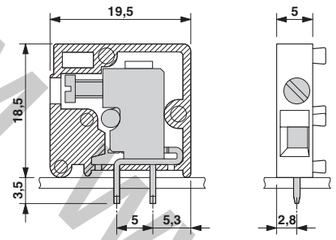
Accessories

For all types	Type	Page
	Screwdriver **SZS 0,3 x 3,0** **Order No.** **1207404**	
Only for FRONT 2,5-H/...		
	Pitch spacer, width: 2.5 mm **RZ 2,5-FRONT 2,5-H** **Order No.** **1700079**	
Only for FRONT 2,5-V/...		
	Pitch spacer, width: 2.5 mm **RZ 2,5-FRONT 2,5-V** **Order No.** **1700082**	

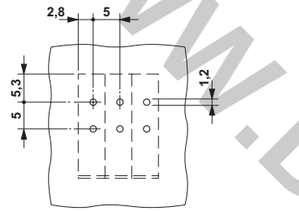


Horizontal connection direction, 5 mm pin spacing

Dimensional drawing



Drilling diagram



Ordering data

No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00
5	20.00
6	25.00
7	30.00
8	35.00
9	40.00
10	45.00
11	50.00
12	55.00

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
FRONT 2,5-H/SA 5/ 2	**1868665**	20
FRONT 2,5-H/SA 5/ 3	**1700121**	20
FRONT 2,5-H/SA 5/ 4	**1700781**	20
FRONT 2,5-H/SA 5/ 5	**1724660**	20
FRONT 2,5-H/SA 5/ 6	**1891975**	20
FRONT 2,5-H/SA 5/ 7	**1988257**	20
FRONT 2,5-H/SA 5/ 8	**1724673**	20
FRONT 2,5-H/SA 5/ 9	**1744109**	20
FRONT 2,5-H/SA 5/10	**1773264**	20
FRONT 2,5-H/SA 5/11	**1701382**	20
FRONT 2,5-H/SA 5/12	**1892893**	20

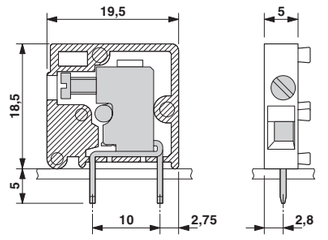
Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	24²) / 2.5		
Rated insulation voltage for pollution degree 2	[V]	400		
Pitch	[mm]	5		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 2.5 / 0.2 - 2.5 / 24 - 14		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 1.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 1.5		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	0.2 - 0.75 / 0.2 - 0.75		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 0.34		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	-		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250¹)	400	630
Rated surge voltage	[kV]	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	250	-	300
Nominal current	[A]	10	-	10
Connection capacity AWG	AWG	30 - 12	-	30 - 12
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	10	-	10
Connection capacity AWG	AWG	24 - 12	-	24 - 12
General data				
Stripping length	[mm]	9		
Screw thread		M2,5		
Tightening torque	[Nm]	0.4 - 0.5		
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.2 / 0,8 x 0,8 mm		

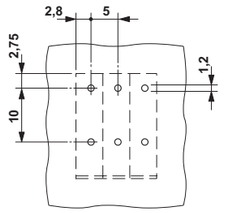


Horizontal connection direction, 10 mm pin spacing

Dimensional drawing



Drilling diagram



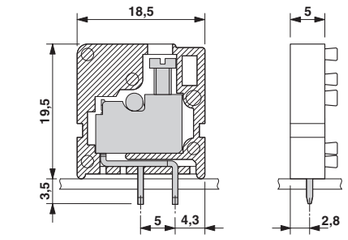
Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
FRONT 2,5-H/SA10/ 2	**1724657**	20
FRONT 2,5-H/SA10/ 3	**1904215**	20
FRONT 2,5-H/SA10/ 4	**1773170**	20
FRONT 2,5-H/SA10/ 5	**1773183**	20
FRONT 2,5-H/SA10/ 6	**1773196**	20
FRONT 2,5-H/SA10/ 7	**1773206**	20
FRONT 2,5-H/SA10/ 8	**1773219**	20
FRONT 2,5-H/SA10/ 9	**1773222**	20
FRONT 2,5-H/SA10/10	**1773235**	20
FRONT 2,5-H/SA10/11	**1773248**	20
FRONT 2,5-H/SA10/12	**1773251**	20

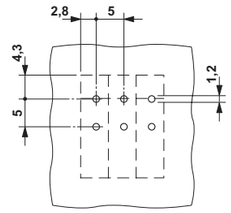


Vertical connection direction, 5 mm pin spacing

Dimensional drawing



Drilling diagram



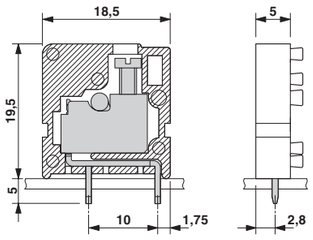
Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
FRONT 2,5-V/SA 5/ 2	**1700244**	20
FRONT 2,5-V/SA 5/ 3	**1700134**	20
FRONT 2,5-V/SA 5/ 4	**1888250**	20
FRONT 2,5-V/SA 5/ 5	**1700354**	20
FRONT 2,5-V/SA 5/ 6	**1700231**	20
FRONT 2,5-V/SA 5/ 7	**1724152**	20
FRONT 2,5-V/SA 5/ 8	**1700710**	20
FRONT 2,5-V/SA 5/ 9	**1724165**	20
FRONT 2,5-V/SA 5/10	**1700765**	20
FRONT 2,5-V/SA 5/11	**1700118**	20
FRONT 2,5-V/SA 5/12	**1889974**	20

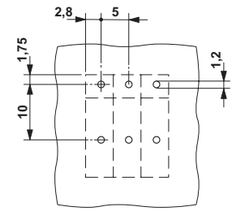


Vertical connection direction, 10 mm pin spacing

Dimensional drawing



Drilling diagram

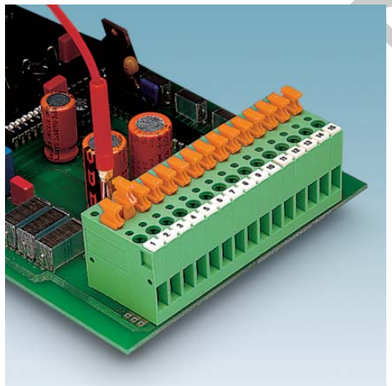


Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
FRONT 2,5-V/SA10/ 2	**1704114**	20
FRONT 2,5-V/SA10/ 3	**1704897**	20
FRONT 2,5-V/SA10/ 4	**1732238**	20
FRONT 2,5-V/SA10/ 5	**1773277**	20
FRONT 2,5-V/SA10/ 6	**1701230**	20
FRONT 2,5-V/SA10/ 7	**1773280**	20
FRONT 2,5-V/SA10/ 8	**1704127**	20
FRONT 2,5-V/SA10/ 9	**1704907**	20
FRONT 2,5-V/SA10/10	**1700778**	20
FRONT 2,5-V/SA10/11	**1773293**	20
FRONT 2,5-V/SA10/12	**1931741**	20

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Single terminal blocks of up to 2.5 mm²



- Double solder pin for high stability on the PCB
- Low-heat generating current transfer in the conducting path
- Increase in voltage with pitch spacers
- A plate-type design enables blocking for larger number of positions

Notes:
In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.
[1]) 400 V is achieved when the pitch spacer RZ-KDS 2,5 is inserted.
[2]) 500 V is achieved when the pitch spacer RZ 2.54 is inserted.
[3]) 500 V is achieved when the pitch spacer RZ 2,54 is inserted.
[4]) Current carrying capacity curve available on request.

Accessories

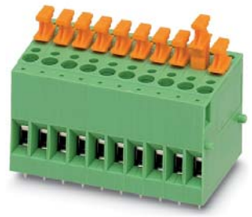
For all types	Type	Page
	Test plug **MPS**	831
	Reducing plug **RPS** **Order No. 0201647**	831
Only for KDS 2,5		
	Pitch spacer, width: 2.5 mm **RZ-KDS 2,5** **Order No. 1705029**	
Only for KDS 3-PMT and KDS 3-MT		
	Pitch spacer, width: 2.54 mm **RZ 2,54** **Order No. 1780044**	

Technical data

		KDS 2,5			KDS 3-PMT			KDS 3-MT		
Technical data in accordance to IEC / DIN VDE										
Rated current / conductor cross section	[A] / [mm²]	24[4]) / 4			13.5[4]) / 4			15[4]) / 4		
Rated insulation voltage for pollution degree 2	[V]	400			320			320		
Pitch	[mm]	5			5.08			5.08		
Connection capacity										
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 4 / 0.2 - 2.5 / 24 - 12			0.2 - 4 / 0.2 - 2.5 / 24 - 12			0.2 - 4 / 0.2 - 2.5 / 24 - 12		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 2.5			0.25 - 2.5			0.25 - 2.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 1.5			0.25 - 1.5			0.25 - 1.5		
Multi-conductor connection capacity (two conductors with the same cross section)										
Solid / stranded	[mm²]	0.2 - 1 / 0.2 - 1.5			0.2 - 1 / 0.2 - 1			0.2 - 1 / 0.2 - 1		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 0.5			0.25 - 0.75			0.25 - 0.75		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 1			0.5 - 1			0.5 - 1		
Insulation coordination										
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250[1])	400	630	320[3])	320	630	320[2])	320	630
Rated surge voltage	[kV]	4	4	4	4	4	4	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	250	-	300	250	-	300	250	-	300
Nominal current	[A]	15	-	10	15	-	10	15	-	10
Connection capacity AWG	AWG	30 - 12	-	30 - 12	28 - 12	-	28 - 12	28 - 12	-	28 - 12
Approval data (CSA)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	300	-	300	-	-	-	300	-	300
Nominal current	[A]	10	-	10	-	-	-	10	-	10
Connection capacity AWG	AWG	24 - 12	-	24 - 12	-	-	-	24 - 12	-	24 - 12
General data										
Stripping length	[mm]	9			8			8		
Screw thread		M3			M3			M3		
Tightening torque	[Nm]	0.5 - 0.6			0.5 - 0.6			0.5 - 0.6		
Type of insulation material / insulation material group		PA / I			PA / I			PA / I		
Inflammability class according to UL 94		V2			V2			V2		
Drill hole diameter / pin dimensions	[mm]	1.4 / 1,1 x 0,7 mm			1.2 / 0,8 x 0,8 mm			1.4 / 1,1 x 0,8 mm		



Single PCB terminal block, alignable



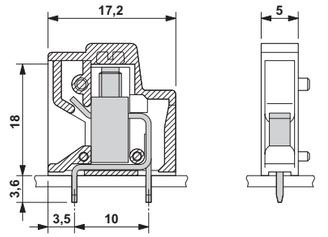
Disconnect terminal block with test connection on both sides of the disconnect point



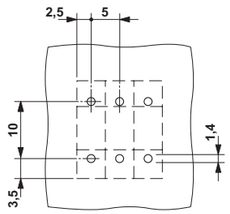
Knife disconnect terminal block with test socket

CCA

Dimensional drawing



Drilling diagram

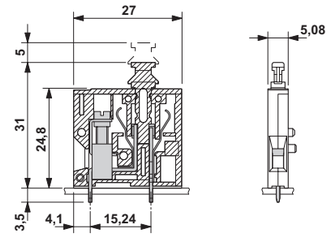


Ordering data

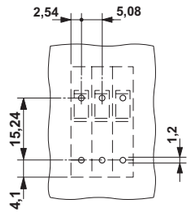
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
KDS 2,5	**1705016**	50
Pitch 5 mm, color: Blue		
KDS 2,5 BU	**1705090**	50

CCA

Dimensional drawing



Drilling diagram

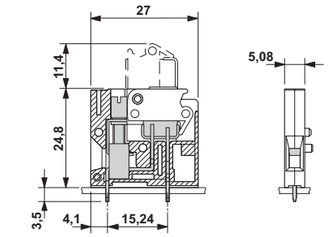


Ordering data

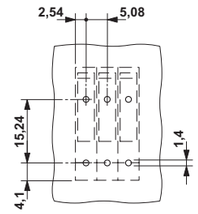
Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
KDS 3-PMT	**1780028**	50

CCA

Dimensional drawing



Drilling diagram



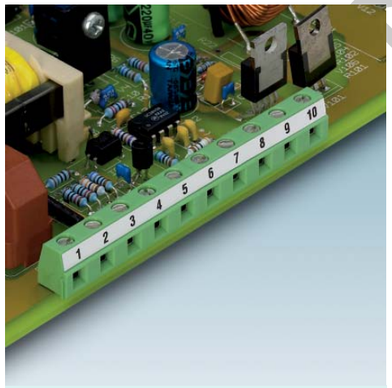
Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
KDS 3-MT	**1780015**	50

No. of pos.
1
1
1

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Connection cross section of up to 1.5 mm²



GMKDSN 1,5/...
- Single-row PCB terminal blocks for 630 V applications with a 7.62 mm pitch
- Can be connected in series with the corresponding standard models of the MKDSN 1,5 range
- Low design for especially compact mains connections

GSMKDSN 1,5/...
- Angled type with the connection direction at an angle of 55° to the PCB
- An arrangement of several terminal block rows one behind the other – multi-level effect with the same design

Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.

¹) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.



Metric 7.5 mm pitch



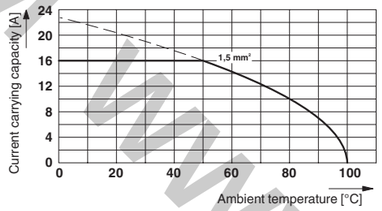
Detection lug for models with 7.62 mm inch pitch

Accessories

For all types	Type	Page
	Marker cards **SK 7,62/5**	800
	Screwdriver **SZS 0,4 x 2,5 Order No. 1205037**	

Current carrying capacity curve

Type: GMKDSN 1,5/5-7,62
Test following DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5



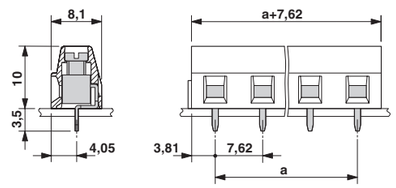


Low-profile design, with housing overlapping

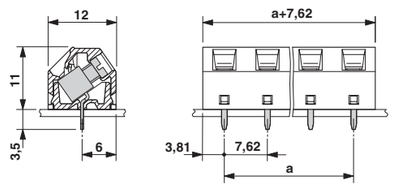


Low-profile design, with 55° angled connection direction and housing overlapping

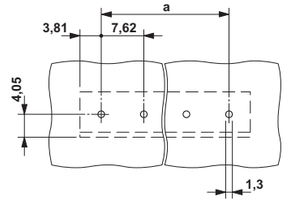
Dimensional drawing



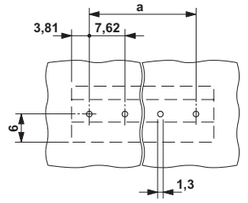
Dimensional drawing



Drilling diagram



Drilling diagram



Technical data

		GMKDSN 1,5/ ...-7,62			GSMKDSN 1,5/ ...-7,62		
Technical data in accordance to IEC / DIN VDE							
Rated current / conductor cross section	[A] / [mm²]	16¹) / 1.5			16¹) / 1.5		
Rated insulation voltage for pollution degree 2	[V]	630			630		
Pitch	[mm]	7.62			7.62		
Connection capacity							
Solid / stranded	[mm²] / [mm²] / AWG	0.14 - 1.5 / 0.14 - 1.5 / 26 - 16			0.14 - 1.5 / 0.14 - 1.5 / 26 - 16		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 1.5			0.25 - 1.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 1.5			0.25 - 1.5		
Multi-conductor connection capacity (two conductors with the same cross section)							
Solid / stranded	[mm²]	0.14 - 0.75 / 0.14 - 0.75			0.14 - 0.75 / 0.14 - 0.75		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 0.5			0.25 - 0.5		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 1			0.5 - 1		
Insulation coordination							
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	400	630	1000	500	630	1000
Rated surge voltage	[kV]	6	6	6	6	6	6
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	300	-	300	300	-	300
Nominal current	[A]	10	-	10	10	-	10
Connection capacity AWG	AWG	30 - 14	-	30 - 14	30 - 14	-	30 - 14
Approval data (CSA)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	300	-	300	300	-	300
Nominal current	[A]	10	-	10	10	-	10
Connection capacity AWG	AWG	28 - 14	-	28 - 14	28 - 14	-	28 - 14
General data							
Stripping length	[mm]	6			6		
Screw thread		M3			M3		
Tightening torque	[Nm]	0.5 - 0.6			0.5 - 0.6		
Type of insulation material / insulation material group		PA / I			PA / I		
Inflammability class according to UL 94		V0			V2		
Drill hole diameter / pin dimensions	[mm]	1.3 / 0,5 x 1 mm			1.3 / 0,5 x 1 mm		

No. of pos.	Dim. a [mm]
2	7.62
3	15.24
4	22.86
5	30.48
6	38.10
7	45.72
8	53.34
9	60.96
10	68.58
11	76.20
12	83.82

Ordering data

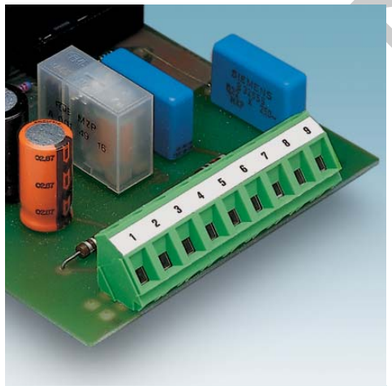
Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
GMKDSN 1,5/ 2-7,62	**1707027**	50
GMKDSN 1,5/ 3-7,62	**1707030**	50
GMKDSN 1,5/ 4-7,62	**1707043**	50
GMKDSN 1,5/ 5-7,62	**1707056**	50
GMKDSN 1,5/ 6-7,62	**1707069**	50
GMKDSN 1,5/ 7-7,62	**1707072**	50
GMKDSN 1,5/ 8-7,62	**1707085**	50
GMKDSN 1,5/ 9-7,62	**1707108**	50
GMKDSN 1,5/10-7,62	**1707111**	50
GMKDSN 1,5/11-7,62	**1707124**	50
GMKDSN 1,5/12-7,62	**1707137**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
GSMKDSN 1,5/ 2-7,62	**1718605**	50
GSMKDSN 1,5/ 3-7,62	**1718618**	50
GSMKDSN 1,5/ 4-7,62	**1718621**	50
GSMKDSN 1,5/ 5-7,62	**1718634**	50
GSMKDSN 1,5/ 6-7,62	**1718647**	50
GSMKDSN 1,5/ 7-7,62	**1718650**	50
GSMKDSN 1,5/ 8-7,62	**1718663**	50
GSMKDSN 1,5/ 9-7,62	**1718676**	50
GSMKDSN 1,5/10-7,62	**1718689**	50
GSMKDSN 1,5/11-7,62	**1718692**	50
GSMKDSN 1,5/12-7,62	**1718702**	50

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Connection cross section of up to 1.5 mm²



GMKDS 1,5/...
- Single-row PCB terminal blocks for 630 V applications with a 7.62 mm pitch
- Can be connected in series with the corresponding standard models of the MKDS 1,5 range

GSMKDSP 1,5/...
- Conductor and screwdriver axis at an angle of 35° to the PCB
- An arrangement of several terminal block rows one behind the other – multi-level effect with the same design
- With an integrated 2.3 mm Ø test connection

Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.

¹) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.



Metric 7.5 mm pitch



Detection lug for models with 7.62 mm inch pitch

Accessories

For all types	Type	Page
	Screwdriver **SZS 0,6 x 3,5 Order No. 1205053**	
	Marker cards **SK 7,5/5 or SK 7,62/5**	800
Only for GSMKDSP 1,5		
	Test plug **MPS**	831
	Reducing plug **RPS Order No. 0201647**	831

Current carrying capacity curve

Type: GMKDS 1,5/2 and GMKDS 1,5/3
Test following DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5



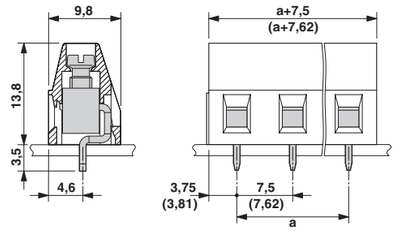
With horizontal connection direction and housing overlapping



With 35° angled connection direction and housing overlapping

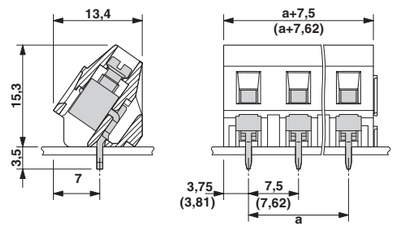
CCA

Dimensional drawing

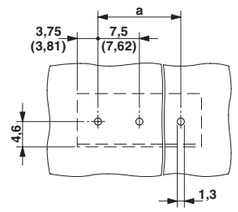


CCA

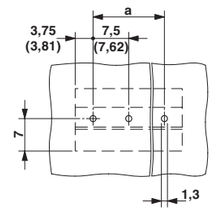
Dimensional drawing



Drilling diagram



Drilling diagram



No. of pos.	Dim. a [mm]
2	7.50
3	15.00
2	7.62
3	15.24

Ordering data

Type	Order No.	Pcs. / Pkt.
7.5 mm pitch, color: Green		
GMKDS 1,5/ 2	**1717020**	250
GMKDS 1,5/ 3	**1717033**	250
Pitch 7.62 mm, color: Green		
GMKDS 1,5/ 2-7,62	**1717729**	250
GMKDS 1,5/ 3-7,62	**1717732**	250

Ordering data

Type	Order No.	Pcs. / Pkt.
7.5 mm pitch, color: Green		
GSMKDSP 1,5/ 2	**1718029**	250
GSMKDSP 1,5/ 3	**1718032**	250
Pitch 7.62 mm, color: Green		
GSMKDSP 1,5/ 2-7,62	**1718728**	250
GSMKDSP 1,5/ 3-7,62	**1718731**	250

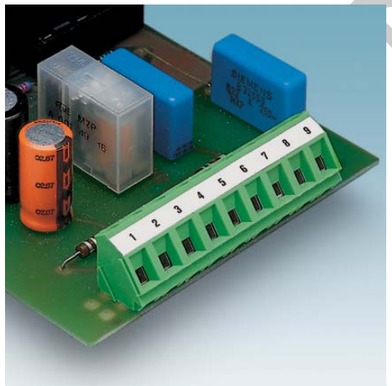
Technical data

		GMKDS 1,5/ ...			GSMKDSP 1,5/ ...		
Technical data in accordance to IEC / DIN VDE							
Rated current / conductor cross section	[A] / [mm²]	17.5¹) / 1.5			17.5¹) / 2.5		
Rated insulation voltage for pollution degree 2	[V]	630			630		
Pitch	[mm]	7.5 / 7.62			7.5 / 7.62		
Connection capacity							
Solid / stranded	[mm²] / [mm²] / AWG	0.14 - 1.5 / 0.14 - 1.5 / 26 - 16			0.14 - 2.5 / 0.14 - 1.5 / 26 - 14		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 1			0.25 - 1.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 1			0.25 - 1.5		
Multi-conductor connection capacity (two conductors with the same cross section)							
Solid / stranded	[mm²]	0.14 - 1 / 0.14 - 0.75			0.14 - 1 / 0.14 - 0.75		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 0.5			0.25 - 0.5		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 1			0.5 - 1		
Insulation coordination							
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	500	630	1000	500	630	1000
Rated surge voltage	[kV]	6	6	6	6	6	6
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	300	-	300	300	-	300
Nominal current	[A]	10	-	10	10	-	10
Connection capacity AWG	AWG	30 - 14	-	30 - 14	30 - 14	-	30 - 14
Approval data (CSA)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	300	-	300	-	-	-
Nominal current	[A]	10	-	10	-	-	-
Connection capacity AWG	AWG	28 - 14	-	28 - 14	-	-	-
General data							
Stripping length	[mm]	6.5			7		
Screw thread		M3			M3		
Tightening torque	[Nm]	0.5 - 0.6			0.5 - 0.6		
Type of insulation material / insulation material group		PA / I			PA / I		
Inflammability class according to UL 94		V0			V0		
Drill hole diameter / pin dimensions	[mm]	1.3 / 0,9 x 0,9 mm			1.3 / 0,9 x 0,9 mm		

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PCB terminal blocks with screw connection for wave soldering processes, currents of up to 41 A

Connection cross section of up to 2.5 mm²



- Single-row PCB terminal blocks for 630 V applications with a 7.62 mm pitch
- Can be connected in series with corresponding standard models of the MKDS 3 range

GMKDSP 3/...
- With an additionally integrated test connection to accommodate 2 mm Ø test pins or 2.3 mm Ø test connectors

GSMKDS 3/...
- Conductor and screwdriver axis at an angle of 35° to the PCB
- An arrangement of several terminal block rows one behind the other – multi-level effect with the same design

Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.

¹) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.



Metric 7.5 mm pitch



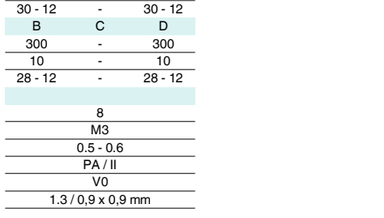
Detection lug for models with 7.62 mm inch pitch

Accessories

For all types	Type	Page
	Marker cards **SK 7,5/5 or SK 7,62/5**	800
	Screwdriver **SZS 0,6 x 3,5 Order No. 1205053**	
Only for GMKDS 3 and GMKDSP 3		
	Single cover for individual terminal positions **EA-MKDS Order No. 1711408**	
Only for GMKDSP 3		
	Test plug **MPS**	831
	Reducing plug **RPS Order No. 0201647**	831
	Test plug **SPB 5-MKDS 3 Order No. 1301216**	833

Current carrying capacity curve

Type: GMKDS 3/2 and GMKDS 3/3
Test following DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5

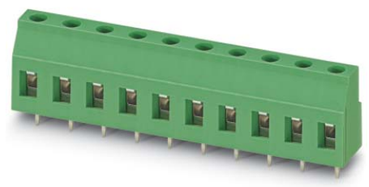


Technical data

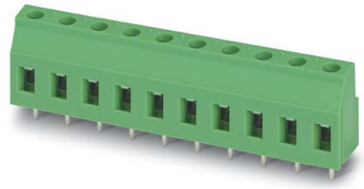
		GMKDS 3/ ...			GMKDSP 3/ ...			GSMKDS 3/ ...		
Technical data in accordance to IEC / DIN VDE										
Rated current / conductor cross section	[A] / [mm²]	24¹) / 4			24¹) / 4			24¹) / 4		
Rated insulation voltage for pollution degree 2	[V]	630			630			630		
Pitch	[mm]	7.5 / 7.62			7.5 / 7.62			7.5 / 7.62		
Connection capacity										
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 4 / 0.2 - 2.5 / 24 - 12			0.2 - 4 / 0.2 - 2.5 / 24 - 12			0.2 - 4 / 0.2 - 2.5 / 24 - 12		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 2.5			0.25 - 2.5			0.25 - 2.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 2.5			0.25 - 2.5			0.25 - 2.5		
Multi-conductor connection capacity (two conductors with the same cross section)										
Solid / stranded	[mm²]	0.2 - 1.5 / 0.2 - 1.5			0.2 - 1.5 / 0.2 - 1.5			0.2 - 1.5 / 0.2 - 1.5		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 0.75			0.25 - 0.75			0.25 - 0.75		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 1.5			0.5 - 1.5			0.5 - 1.5		
Insulation coordination										
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	500	630	1000	500	630	1000	500	630	1000
Rated surge voltage	[kV]	6	6	6	6	6	6	6	6	6
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	250	-	300	250	-	300	250	-	300
Nominal current	[A]	15	-	10	15	-	10	15	-	10
Connection capacity AWG	AWG	30 - 12	-	30 - 12	30 - 12	-	30 - 12	30 - 12	-	30 - 12
Approval data (CSA)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	300	-	300	-	-	-	300	-	300
Nominal current	[A]	10	-	10	-	-	-	10	-	10
Connection capacity AWG	AWG	28 - 12	-	28 - 12	-	-	-	28 - 12	-	28 - 12
General data										
Stripping length	[mm]	8			7			8		
Screw thread		M3			M3			M3		
Tightening torque	[Nm]	0.5 - 0.6			0.5 - 0.6			0.5 - 0.6		
Type of insulation material / insulation material group		PA / I			PA / I			PA / II		
Inflammability class according to UL 94		V0			V2			V0		
Drill hole diameter / pin dimensions	[mm]	1.3 / 0,9 x 0,9 mm			1.3 / 0,9 x 0,9 mm			1.3 / 0,9 x 0,9 mm		

No. of pos.	Dim. a [mm]
2	7.50
3	15.00
2	7.62
3	15.24

PCB terminal blocks with screw connection for wave soldering processes, currents of up to 41 A



With housing overlapping



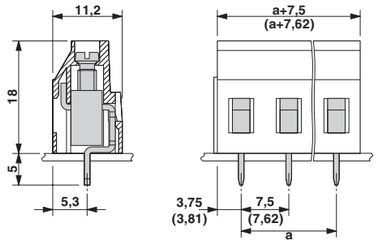
With test connection and housing overlapping



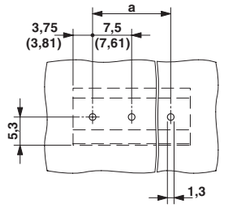
With 35° angled connection direction and housing overlapping

cULus SEV CCA

Dimensional drawing



Drilling diagram

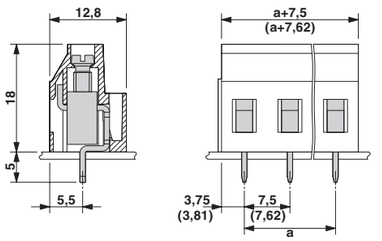


Ordering data

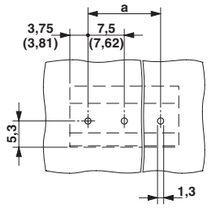
Type	Order No.	Pcs. / Pkt.
7.5 mm pitch, color: Green		
GMKDS 3/ 2	**1731022**	100
GMKDS 3/ 3	**1731035**	100
Pitch 7.62 mm, color: Green		
GMKDS 3/ 2-7,62	**1731721**	100
GMKDS 3/ 3-7,62	**1731734**	100

cULus SEV CCA CB

Dimensional drawing



Drilling diagram

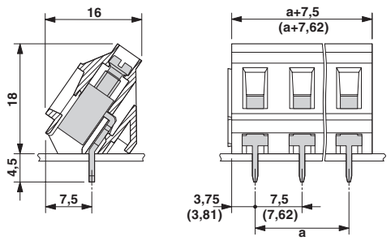


Ordering data

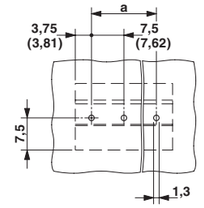
Type	Order No.	Pcs. / Pkt.
7.5 mm pitch, color: Green		
GMKDSP 3/ 2	**1732021**	50
GMKDSP 3/ 3	**1732034**	50
Pitch 7.62 mm, color: Green		
GMKDSP 3/ 2-7,62	**1732720**	50
GMKDSP 3/ 3-7,62	**1732733**	50

cULus SEV CCA

Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
7.5 mm pitch, color: Green		
GSMKDS 3/ 2	**1733020**	100
GSMKDS 3/ 3	**1733033**	100
Pitch 7.62 mm, color: Green		
GSMKDS 3/ 2-7,62	**1733729**	100
GSMKDS 3/ 3-7,62	**1733732**	100

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Connection cross section of up to 2.5 mm²



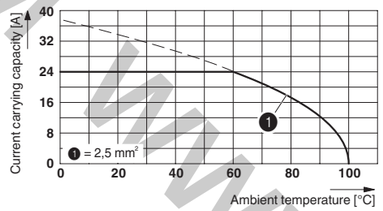
- PCB terminal block ME MAX electronic housing
- PCB terminal block is orthogonal to the PCB
- "Left" and "right" design
- 7.5 mm pitch
- 2 and 3-pos.

Accessories

For all types	Type	Page
	Marker cards **SK 7,5/3,8**	799
	Screwdriver **SZS 0,6 x 3,5 Order No. 1205053**	

Current carrying capacity curve

Type: MKDSO 2,5 HV/3L-7,5 KMGY
Tested in accordance with DIN EN 60512-5-2: 2003-01
Reduction factor: 1
No. of positions: 3



Technical data

		MKDSO 2,5 HV/ ...L-7,5 KMGY			MKDSO 2,5 HV/ ...R-7,5 KMGY		
Technical data in accordance to IEC / DIN VDE							
Rated current / conductor cross section	[A] / [mm²]	24 / 2.5			24 / 2.5		
Rated insulation voltage for pollution degree 2	[V]	630			630		
Pitch	[mm]	7.5			7.5		
Connection capacity							
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 2.5 / 0.2 - 2.5 / 24 - 14			0.2 - 2.5 / 0.2 - 2.5 / 24 - 14		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 2.5			0.25 - 2.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 2.5			0.25 - 2.5		
Multi-conductor connection capacity (two conductors with the same cross section)							
Solid / stranded	[mm²]	0.2 - 0.75 / 0.25 - 0.75			0.2 - 0.75 / 0.25 - 0.75		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 0.75			0.25 - 0.75		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.25 - 1.5			0.25 - 1.5		
Insulation coordination							
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	600	630	1000	600	630	1000
Rated surge voltage	[kV]	6	6	6	6	6	6
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	300	300	600	300	300	600
Nominal current	[A]	20	20	5	20	20	5
Connection capacity AWG	AWG	30 - 12	30 - 12	30 - 12	30 - 12	30 - 12	30 - 12
Approval data (CSA)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-
General data							
Stripping length	[mm]	8			8		
Screw thread		M3			M3		
Tightening torque	[Nm]	0.5 - 0.6			0.5 - 0.6		
Type of insulation material / insulation material group		PA / I			PA / I		
Inflammability class according to UL 94		V0			V0		
Drill hole diameter / pin dimensions	[mm]	1.4 / 0,8 mm x 1 mm			1.4 / 0,8 mm x 1 mm		

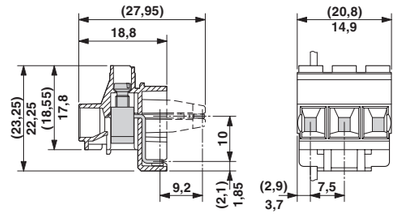


With "left" solder pins leading off at a right angle



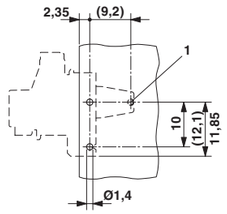
With "right" solder pins leading off at a right angle

Dimensional drawing

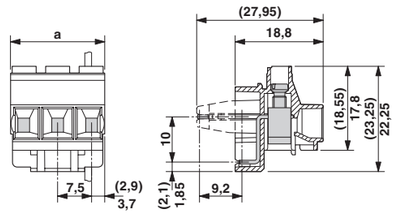


Drilling diagram

Drill hole 1 only for 3-pos. version

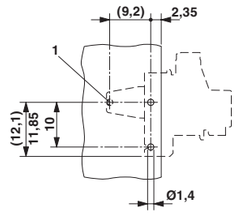


Dimensional drawing



Drilling diagram

Drill hole 1 only for 3-pos. version



No. of pos.	Dim. a [mm]
2	7.50
3	15.00

Ordering data

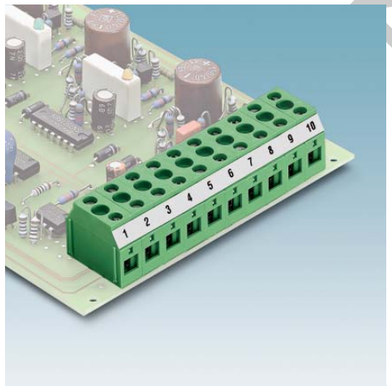
Type	Order No.	Pcs. / Pkt.
PCB terminal block, high-current-compatible, only for ME MAX housing, 7.5 mm pitch, color: light gray		
MKDSO 2,5 HV/ 2L-7,5 KMGY	**2199676**	50
MKDSO 2,5 HV/ 3L-7,5 KMGY	**2890946**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
PCB terminal block, high-current-compatible, only for ME MAX housing, 7.5 mm pitch, color: light gray		
MKDSO 2,5 HV/ 2R-7,5 KMGY	**2199773**	50
MKDSO 2,5 HV/ 3R-7,5 KMGY	**2890959**	50

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Single terminal blocks of up to 4 mm²



- Rugged single terminal block
- Double solder pin for high stability on the PCB
- Low-heat generating current transfer in the conducting path
- Increase in voltage with pitch spacers
- Allows a through wiring with a separate exit to the PCB
- A plate-type design enables blocking for larger number of positions

Notes:

[1]) It achieves 500 V when a RZ-KDS 4 pitch spacer is inserted.

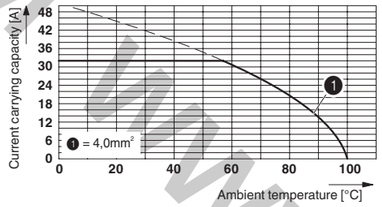
[2]) Current carrying capacity between the conductor connections: 41 A; for solder connection: 32 A. Please observe the current carrying capacity curve. Other current carrying capacity curves are available on request.

Accessories

For all types	Type	Page
	Marker cards **SK 7,5/3,8**	799
	Pitch spacer, width: 2.5 mm **RZ-KDS 4 Order No. 1705058**	
	Screwdriver **SZS 0,6 x 3,5 Order No. 1205053**	
Only for KDSP 4		
	Test plug **MPS**	831
	Reducing plug **RPS Order No. 0201647**	831

Current carrying capacity curve

Type: KDS 4
Test following DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5

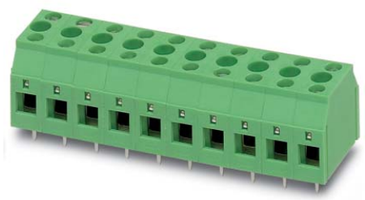


Technical data

		KDS 4			KDSP 4		
Technical data in accordance to IEC / DIN VDE							
Rated current / conductor cross section	[A] / [mm²]	41[2]) / 6			41[2]) / 6		
Rated insulation voltage for pollution degree 2	[V]	320			320		
Pitch	[mm]	7.5			7.5		
Connection capacity							
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 6 / 0.2 - 4 / 24 - 10			0.2 - 6 / 0.2 - 4 / 24 - 10		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 4			0.25 - 4		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 4			0.25 - 4		
Multi-conductor connection capacity (two conductors with the same cross section)							
Solid / stranded	[mm²]	0.2 - 1.5 / 0.2 - 1			0.2 - 1.5 / 0.2 - 1		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 1			0.25 - 1		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 2.5			0.5 - 2.5		
Insulation coordination							
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	320[1])	320	630	320[1])	320	630
Rated surge voltage	[kV]	4	4	4	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	300	-	300	300	-	300
Nominal current	[A]	30	-	10	30	-	10
Connection capacity AWG	AWG	30 - 10	-	30 - 10	30 - 10	-	30 - 10
Approval data (CSA)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	300	-	300	300	-	300
Nominal current	[A]	30	-	10	30	-	10
Connection capacity AWG	AWG	28 - 10	-	28 - 10	28 - 10	-	28 - 10
General data							
Stripping length	[mm]	8			8		
Screw thread		M3			M3		
Tightening torque	[Nm]	0.6 - 0.8			0.6 - 0.8		
Type of insulation material / insulation material group		PA / I			PA / I		
Inflammability class according to UL 94		V0			V0		
Drill hole diameter / pin dimensions	[mm]	1.3 / 0,9 x 0,9 mm			1.3 / 0,9 x 0,9 mm		



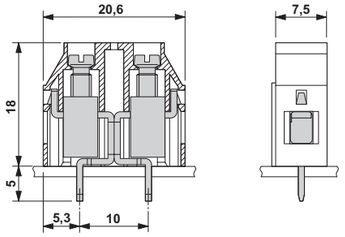
Single terminal block



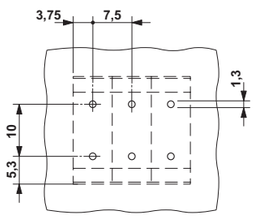
Single terminal block with test connection

CCA

Dimensional drawing



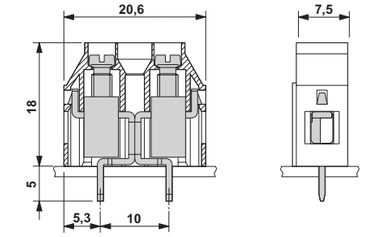
Drilling diagram



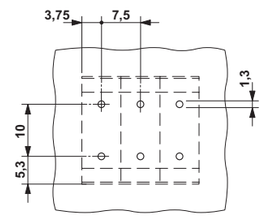
Ordering data

Type	Order No.	Pcs. / Pkt.
7.5 mm pitch, color: Green		
KDS 4	**1780507**	50

Dimensional drawing



Drilling diagram



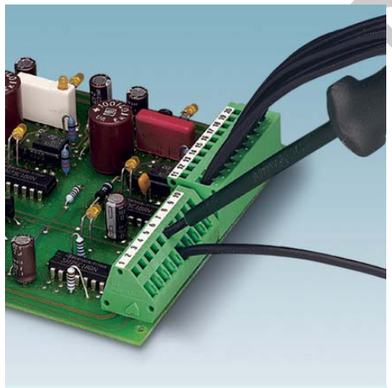
Ordering data

Type	Order No.	Pcs. / Pkt.
7.5 mm pitch, color: Green		
KDSP 4	**1780536**	50

No. of pos.
1

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Connection cross section of up to 1.5 mm²



- Pitch: 3.81 mm
- Single-level PCB single terminal blocks with spring-cage connection
- A plate-type design enables blocking for larger number of positions
- Double solder pin for high stability on the PCB
- W-type with an orange opening lever, enables operation of the terminal point without tools
- Delivery form: position discs in blocks of 10
- Products with various numbers of positions with an end terminal can be supplied on request

Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.

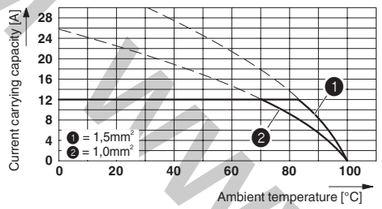
¹) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.

Accessories

For all types	Type	Page
	Marker cards **SK 3,81/2,8**	797
	Screwdriver **SZF 0-0,4 x 2,5 Order No. 1204504**	
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm² **CRIMPFOX 6 Order No. 1212034**	

Current carrying capacity curve

Type: ZFKDS 1-3,81
Test following DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5



Technical data

		ZFKDS 1-3,81			ZFKDS 1-W-3,81		
Technical data in accordance to IEC / DIN VDE							
Rated current / conductor cross section	[A] / [mm²]	12¹) / 1.5			12¹) / 1.5		
Rated insulation voltage for pollution degree 2	[V]	200			200		
Pitch	[mm]	3.81			3.81		
Connection capacity							
Solid / stranded	[mm²] / [mm²] / AWG	0.14 - 1.5 / 0.14 - 1 / 26 - 16			0.14 - 1.5 / 0.14 - 1 / 26 - 16		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 0.5			0.25 - 0.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 0.5			0.25 - 0.5		
Insulation coordination							
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	200	200	400	160	200	400
Rated surge voltage	[kV]	2.5	2.5	2.5	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	250	-	300	250	-	300
Nominal current	[A]	10	-	10	10	-	10
Connection capacity AWG	AWG	26 - 16	-	26 - 16	26 - 16	-	26 - 16
Approval data (CSA)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-
General data							
Stripping length	[mm]	7.5			7.5		
Type of insulation material / insulation material group		PA / I			PA / I		
Inflammability class according to UL 94		V0			V0		
Drill hole diameter / pin dimensions	[mm]	1.2 / 0,7 x 0,8 mm			1.2 / 0,7 x 1 mm		

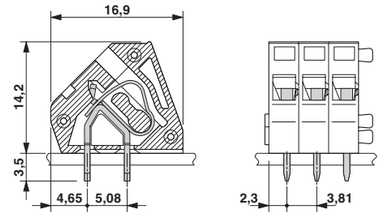


Without actuation rocker, with housing overlapping

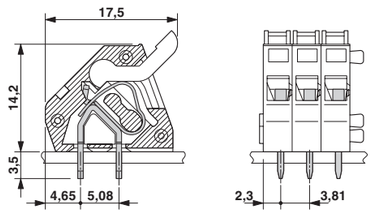


With actuation rocker and housing overlapping

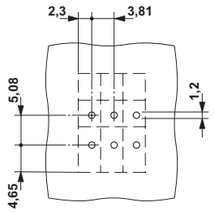
Dimensional drawing



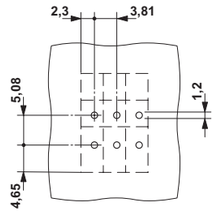
Dimensional drawing



Drilling diagram



Drilling diagram



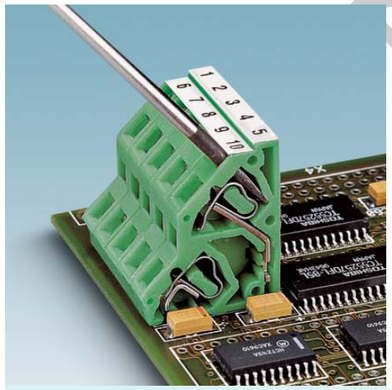
No. of pos.	Type	Order No.	Pcs. / Pkt.
	Pitch 3.81 mm, color: Green		
1	**ZFKDS 1-3,81**	**1704978**	50
	End terminal block, 6.35 mm wide, necessary at the end of a row of terminal blocks		
1	**ZFKDSA 1-6,35**	**1704981**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 3.81 mm, color: Green		
ZFKDS 1-W-3,81	**1705003**	50
End terminal block, with actuation rocker, 6.35 mm wide, necessary at the end of a row of terminal blocks		
ZFKDSA 1-W-6,35	**1704994**	50

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Connection cross section of up to 1.5 mm²



- 5.0 or 5.08 mm pitch
- Single and double-level PCB single terminal blocks with spring-cage connection
- A plate-type design enables blocking for larger number of positions
- Double solder pin for high stability on the PCB
- Compact housing dimensions
- W-type with an orange opening lever, enables operation of the terminal point without tools
- Delivery form: position discs in blocks of 10
- Products with various numbers of positions with an end terminal can be supplied on request

Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.

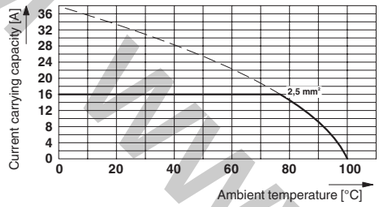
¹) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.

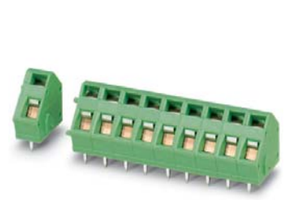
Accessories

For all types	Type	Page
	Screwdriver **SZF 1-0,6 x 3,5 Order No. 1204517**	
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm² **CRIMPFOX 6 Order No. 1212034**	
Only for ZFKDS 1,5C-5,0 and ZFKKDS 1,5C-5,0		
	Marker cards **SK 5/3,8**	798
Only for ZFKDS 1,5-W-5,08		
	Marker cards **SK 5,08/3,8**	798
	Pitch spacer, width: 2.54 mm **RZ-ZFKDS 1,5 Order No. 1870666**	

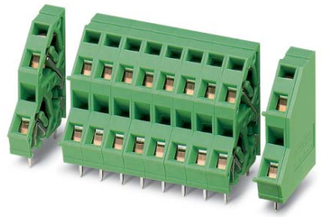
Current carrying capacity curve

Type: ZFKDS 1,5C-5,0
Test following DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5





Compact design, without actuation rocker

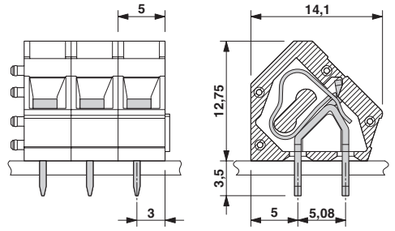


Double-level PCB terminal block, compact design, without actuation rocker

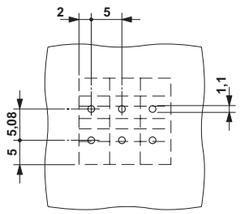


With actuation rocker

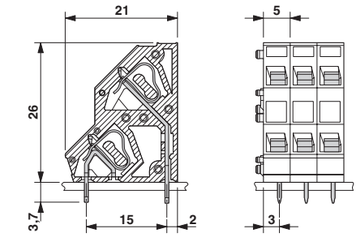
Dimensional drawing



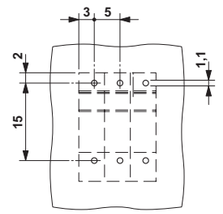
Drilling diagram



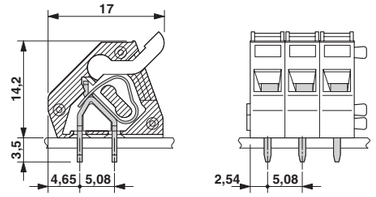
Dimensional drawing



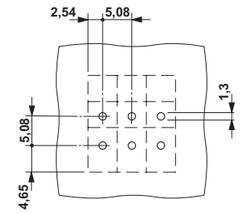
Drilling diagram



Dimensional drawing



Drilling diagram



Technical data

		ZFKDS 1,5C-5,0			ZFKKDS 1,5C-5,0			ZFKDS 1,5-W-5,08		
Technical data in accordance to IEC / DIN VDE										
Rated current / conductor cross section	[A] / [mm²]	16¹) / 2.5			16¹) / 2.5			16¹) / 2.5		
Rated insulation voltage for pollution degree 2	[V]	400			400			400		
Pitch	[mm]	5			5			5.08		
Connection capacity										
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 2.5 / 0.2 - 1.5 / 24 - 14			0.2 - 2.5 / 0.2 - 1.5 / 24 - 14			0.2 - 2.5 / 0.2 - 1.5 / 24 - 14		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 1.5			0.25 - 1.5			0.25 - 1.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 1.5			0.25 - 1.5			0.25 - 1.5		
Insulation coordination										
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250	400	630	250	400	630	250	400	630
Rated surge voltage	[kV]	4	4	4	4	4	4	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	250	-	300	250	-	300	-	-	-
Nominal current	[A]	10	-	10	10	-	10	-	-	-
Connection capacity AWG	AWG	26 - 12	-	26 - 12	26 - 12	-	26 - 12	-	-	-
Approval data (CSA)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-	300	-	300
Nominal current	[A]	-	-	-	-	-	-	10	-	10
Connection capacity AWG	AWG	-	-	-	-	-	-	28 - 12	-	28 - 12
General data										
Stripping length	[mm]	7			7			7.5		
Type of insulation material / insulation material group		PA / I			PA / I			PA / I		
Inflammability class according to UL 94		V0			V0			V0		
Drill hole diameter / pin dimensions	[mm]	1.1 / 0,7 x 0,7			1.1 / 0,7 x 0,7 mm			1.3 / 0,7 x 1 mm		

No. of pos.
1
1
1
1
1

Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
ZFKDS 1,5C-5,0	**1889259**	50
End terminal, 6.4 mm wide, necessary at the end of a row of terminal blocks		
ZFKDSA 1,5C-6,0	**1889262**	50

Ordering data

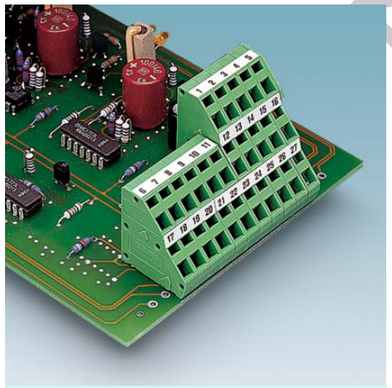
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
ZFKKDS 1,5C-5,0	**1889301**	50
End terminal block, 5 mm wide, necessary at the beginning of a row of terminal blocks (left), if a smooth side element is desired		
ZFKKDSA 1,5C-5,0 L	**1889275**	50
End terminal block, necessary at the end of a row of terminal blocks (right)		
ZFKKDSA 1,5C-6,0 R	**1889288**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
ZFKDS 1,5-W-5,08	**1706714**	250
End terminal block, with actuation rocker, 7.62 mm wide, necessary at the end of a row of terminal blocks		
ZFKDSA 1,5-W-7,62	**1706730**	250

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Connection cross section of up to 1.5 mm²



- 5.08 mm pitch
- Three and four-level PCB single terminal blocks with spring-cage connection
- A plate-type design enables blocking for larger number of positions
- Pin-compatible with screw connection of PCB terminal blocks MK3DS 1,5 and MK4DS 1,5; two alternative connection methods are thus available for the same application without complex changes in the layout.
- Delivery form: position discs in blocks of 10
- Products with various numbers of positions with an end terminal can be supplied on request

Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.

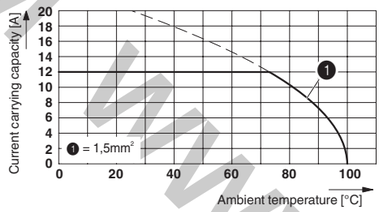
¹) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.

Accessories

For all types	Type	Page
	Marker cards **SK 5,08/3,8**	798
	Screwdriver **SZF 1-0,6 x 3,5 Order No. 1204517**	
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm² **CRIMPFOX 6 Order No. 1212034**	

Current carrying capacity curve

Type: ZFK3DS 1,5-5,08
Test following DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5



Technical data

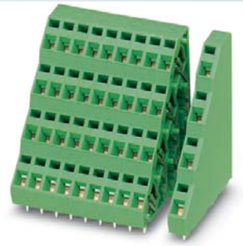
		ZFK3DS 1,5-5,08			ZFK4DS 1,5-5,08		
Technical data in accordance to IEC / DIN VDE							
Rated current / conductor cross section	[A] / [mm²]	12¹) / 2.5			12¹) / 2.5		
Rated insulation voltage for pollution degree 2	[V]	400			400		
Pitch	[mm]	5.08			5.08		
Connection capacity							
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 2.5 / 0.2 - 1.5 / 24 - 14			0.2 - 2.5 / 0.2 - 1.5 / 24 - 14		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 1.5			0.25 - 1.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 1.5			0.25 - 1.5		
Insulation coordination							
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250	400	630	250	400	630
Rated surge voltage	[kV]	4	4	4	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	250	-	300	250	-	300
Nominal current	[A]	10	-	10	10	-	10
Connection capacity AWG	AWG	26 - 12	-	26 - 12	26 - 12	-	26 - 12
Approval data (CSA)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	300	-	300	-	-	-
Nominal current	[A]	10	-	10	-	-	-
Connection capacity AWG	AWG	28 - 12	-	28 - 12	-	-	-
General data							
Stripping length	[mm]	7.5			7.5		
Type of insulation material / insulation material group		PA / I			PA / I		
Inflammability class according to UL 94		V0			V0		
Drill hole diameter / pin dimensions	[mm]	1.3 / 0,7 x 1 mm			1.3 / 0,7 x 1 mm		

PCB terminal blocks with 2.54 to 7.62 mm pitch

PCB terminal blocks with spring-cage connection for wave soldering processes, currents up to 24 A

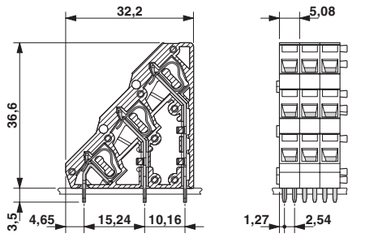


Three-level PCB terminal block

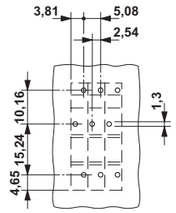


Four-level PCB terminal block

Dimensional drawing



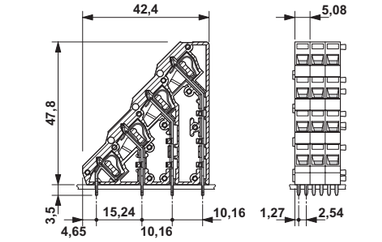
Drilling diagram



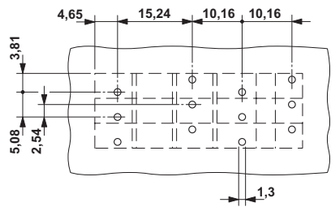
Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
ZFK3DS 1,5-5,08	**1704415**	100
End terminal block, 6.08 mm wide, necessary at the end of a row of terminal blocks		
ZFK3DSA 1,5-6,08	**1704554**	250
Segment terminal block, 6.35 mm wide, necessary to align double-level terminal blocks ZFKKDS 1,5-5,08		
ZFK3DSA 1,5-5,08-DS	**1706167**	50

Dimensional drawing



Drilling diagram



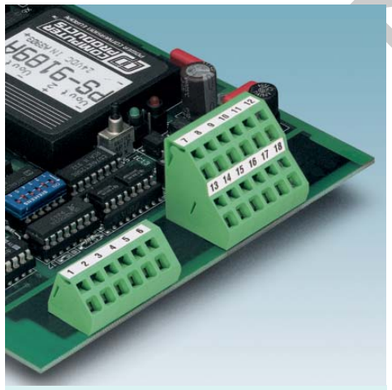
Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
ZFK4DS 1,5-5,08	**1869910**	50
End terminal block, 6.08 mm wide, necessary at the end of a row of terminal blocks		
ZFK4DSA 1,5-6,08	**1869923**	50

No. of pos.
1
1
1

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Connection cross section of up to 2.5 mm²



- 5.08 mm pitch
- A plate-type design enables blocking for larger number of positions
- Double solder pin for high stability on the PCB
- Delivery form: position discs in blocks of 10
- Products with various numbers of positions with an end terminal can be supplied on request

Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.

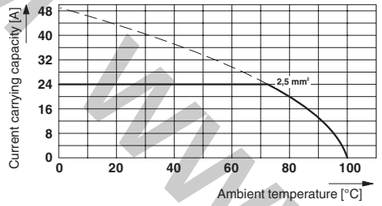
¹) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.

Accessories

For all types	Type	Page
	Crimping pliers for 0.25 to 6 mm² **CRIMPFOX 6 Order No. 1212034**	
	Screwdriver **SZF 1-0,6 x 3,5 Order No. 1204517**	
	Marker cards **SK 5,08/3,8**	798
Only for ZFKDS 2.5-5.08		
	Pitch spacer, width: 2.54 mm **RZ-ZFKDS 2,5 Order No. 1931039**	
Only for ZFKKDS 2,5-5,08		
	Pitch spacer, width: 2.54 mm **RZ-ZFKKDS 2,5 Order No. 1934612**	

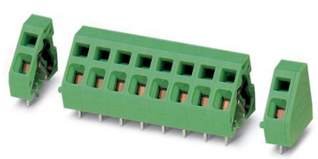
Current carrying capacity curve

Type: ZFKDS 2,5-5,08
Test following DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5

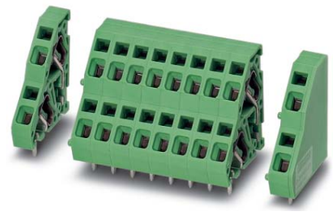


Technical data

		ZFKDS 2,5-5,08			ZFKKDS 2,5-5,08		
Technical data in accordance to IEC / DIN VDE							
Rated current / conductor cross section	[A] / [mm²]	24¹) / 4			17.5¹) / 4		
Rated insulation voltage for pollution degree 2	[V]	400			400		
Pitch	[mm]	5.08			5.08		
Connection capacity							
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 4 / 0.2 - 2.5 / 24 - 12			0.2 - 4 / 0.2 - 2.5 / 24 - 12		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 2.5			0.25 - 2.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 1.5			0.25 - 1.5		
Insulation coordination							
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250	400	630	250	400	630
Rated surge voltage	[kV]	4	4	4	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	250	-	300	250	-	300
Nominal current	[A]	10	-	10	10	-	10
Connection capacity AWG	AWG	26 - 12	-	26 - 12	26 - 12	-	26 - 12
Approval data (CSA)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-
General data							
Stripping length	[mm]	7			7		
Type of insulation material / insulation material group		PA / I			PA / I		
Inflammability class according to UL 94		V0			V0		
Drill hole diameter / pin dimensions	[mm]	1.3 / 0,8 x 0,8 mm			1.3 / 0,8 x 0,8 mm		

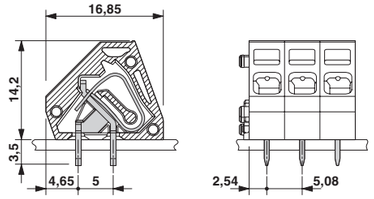


Single-level PCB terminal block

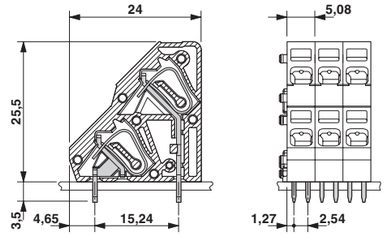


Double-level PCB terminal block

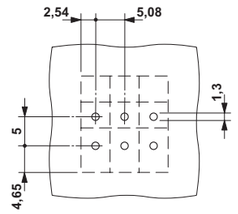
Dimensional drawing



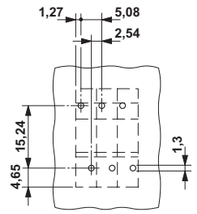
Dimensional drawing



Drilling diagram



Drilling diagram

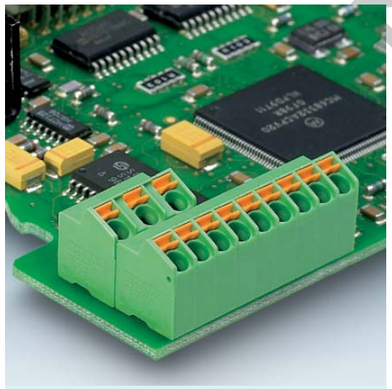


No. of pos.	Ordering data		
	Type	**Order No.**	Pcs. / Pkt.
	5.08 mm pitch, color: Green		
1	**ZFKDS 2,5-5,08**	**1904969**	50
	End terminal block, 5.08 mm wide, necessary at the end of a row of terminal blocks (left), if a smooth side element is desired		
1	**ZFKDS 2,5-5,08 L**	**1905214**	50
	End terminal block, 6.08 mm wide, necessary at the end of a row of terminal blocks (right)		
1	**ZFKDSA 2,5-6,08 R**	**1905010**	50

Ordering data		
Type	**Order No.**	Pcs. / Pkt.
5.08 mm pitch, color: Green		
ZFKKDS 2,5-5,08	**1905023**	50
End terminal block, 5.08 mm wide, necessary at the end of a row of terminal blocks (left), if a smooth side element is desired		
ZFKKDS 2,5-5,08 L	**1905227**	50
End terminal block, 6.08 mm wide, necessary at the end of a row of terminal blocks (right)		
ZFKKDSA 2,5-6,08 R	**1905036**	50

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Angled conductor connection of up to 1 mm²



- Angled PCB terminal block with 3.5/5.0 mm pitch with integrated touch connection
- Convenient and fast conductor connection using Push-in direct plug-in system
- Easy operation when loosening the conductor using an orange actuating lever
- Different pitch dimensions can be combined depending on product range
- Arrangement of several rows for high packing densities possible
- Compact design with only 10 mm constructional depth
- Drilling diagram and dimensions are the same shape as the reliable screw connection SMKDS 1

Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.

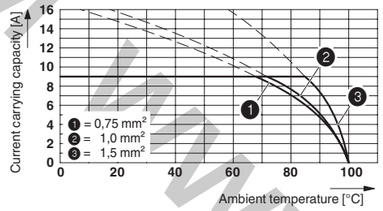
¹) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.

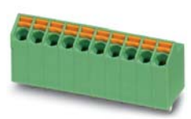
Accessories

For all types	Type	Page
	Screwdriver **SZS 0,4 x 2,5 Order No. 1205037**	
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm² **CRIMPFOX 6 Order No. 1212034**	
Only for SPTA 1/...-3.5		
	Marker cards **SK 3,5/2,8**	797
Only for SPTA 1/...-5.0		
	Marker cards **SK 5/3,8**	798

Current carrying capacity curve

Type: SPTA 1 ...3,5
Test following DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5



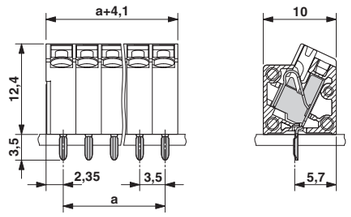


3.5 mm pitch, with 25° angled connection direction and opening lever

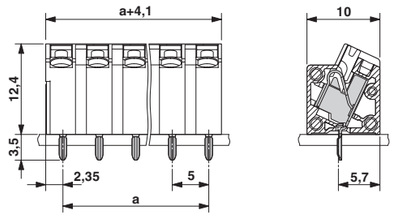


5 mm pitch, with 25° angled connection direction and opening lever

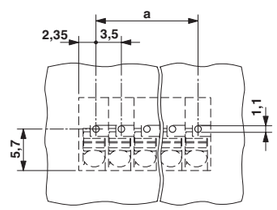
Dimensional drawing



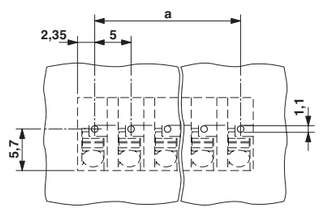
Dimensional drawing



Drilling diagram



Drilling diagram



Technical data

		SPTA 1/ ...-3,5			SPTA 1/ ...-5,0		
Technical data in accordance to IEC / DIN VDE							
Rated current / conductor cross section	[A] / [mm²]	9¹) / 1.5			9¹) / 1.5		
Rated insulation voltage for pollution degree 2	[V]	200			320		
Pitch	[mm]	3.5			5		
Connection capacity							
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 1.5 / 0.2 - 1 / 24 - 16			0.2 - 1.5 / 0.2 - 1 / 24 - 16		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 0.75			0.25 - 0.75		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 0.75			0.25 - 0.75		
Insulation coordination							
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	160	200	400	250	320	630
Rated surge voltage	[kV]	2.5	2.5	2.5	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	150	-	300	150	-	300
Nominal current	[A]	10	-	10	10	-	10
Connection capacity AWG	AWG	26 - 16	-	26 - 16	26 - 16	-	26 - 16
Approval data (CSA)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-
General data							
Stripping length	[mm]	8			8		
Type of insulation material / insulation material group		PA / I			PA / I		
Inflammability class according to UL 94		V0			V0		
Drill hole diameter / pin dimensions	[mm]	1.1 / 0,6 x 1,0 mm			1.1 / 0,6 x 1,0 mm		

No. of pos.	Dim. a [mm]
2	3.50
3	7.00
4	10.50
5	14.00
6	17.50
7	21.00
8	24.50
9	28.00
10	31.50
11	35.00
12	38.50
2	5.00
3	10.00
4	15.00
5	20.00
6	25.00
7	30.00
8	35.00
9	40.00
10	45.00
11	50.00
12	55.00

Ordering data

Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
SPTA 1/ 2-3,5	**1752104**	100
SPTA 1/ 3-3,5	**1752117**	100
SPTA 1/ 4-3,5	**1752120**	50
SPTA 1/ 5-3,5	**1752133**	50
SPTA 1/ 6-3,5	**1752146**	50
SPTA 1/ 7-3,5	**1752159**	50
SPTA 1/ 8-3,5	**1752162**	50
SPTA 1/ 9-3,5	**1752175**	50
SPTA 1/10-3,5	**1752188**	50
SPTA 1/11-3,5	**1752191**	50
SPTA 1/12-3,5	**1752201**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
SPTA 1/ 2-5,0	**1752214**	100
SPTA 1/ 3-5,0	**1752227**	100
SPTA 1/ 4-5,0	**1752230**	50
SPTA 1/ 5-5,0	**1752243**	50
SPTA 1/ 6-5,0	**1752256**	50
SPTA 1/ 7-5,0	**1752269**	50
SPTA 1/ 8-5,0	**1752272**	50
SPTA 1/ 9-5,0	**1752285**	50
SPTA 1/10-5,0	**1752298**	50
SPTA 1/11-5,0	**1752308**	50
SPTA 1/12-5,0	**1752311**	50

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Angled conductor connection of up to 1.5 mm²



- Angled PCB terminal block with 3.81/5.08 mm pitch with integrated touch connection
- Convenient and fast conductor connection using Push-in direct plug-in system
- Easy operation when loosening the conductor using an orange actuating lever
- Different pitch dimensions can be combined depending on product range
- Front pin is a solder pin for additional mechanical stability only, it does not have any electrical properties

Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.

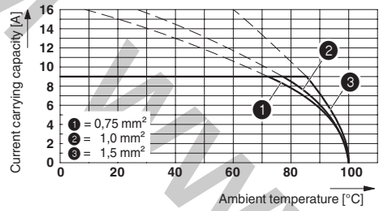
¹) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.

Accessories

For all types	Type	Page
	Screwdriver **SZS 0,4 x 2,5 Order No. 1205037**	
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm² **CRIMPFOX 6 Order No. 1212034**	
Only for SPTA 1,5/...-3,81		
	Marker cards **SK 3,81/2,8**	797
Only for SPTA 1,5/...-5,08		
	Marker cards **SK 5,08/3,8**	798

Current carrying capacity curve

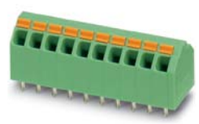
Type: SPTA 1,5 ...3,81
Test following DIN EN 60512-5-2:2003-01
Reduction factor = 0.8
No. of positions: 5



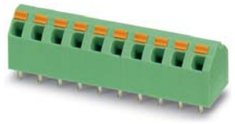
Technical data

		SPTA 1,5/ ...-3,81			SPTA 1,5/ ...-5,08		
Technical data in accordance to IEC / DIN VDE							
Rated current / conductor cross section	[A] / [mm²]	9¹) / 1.5			9¹) / 1.5		
Rated insulation voltage for pollution degree 2	[V]	160			320		
Pitch	[mm]	3.81			5.08		
Connection capacity							
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 1.5 / 0.2 - 1.5 / 24 - 16			0.2 - 1.5 / 0.2 - 1.5 / 24 - 16		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 1.5			0.25 - 1.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 1.5			0.25 - 1.5		
Insulation coordination							
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	160	160	320	250	320	630
Rated surge voltage	[kV]	2.5	2.5	2.5	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	300	-	-	300	-	300
Nominal current	[A]	10	-	-	10	-	10
Connection capacity AWG	AWG	26 - 16	-	-	26 - 16	-	26 - 16
Approval data (CSA)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-
General data							
Stripping length	[mm]	10			10		
Type of insulation material / insulation material group		PA / I			PA / I		
Inflammability class according to UL 94		V0			V0		
Drill hole diameter / pin dimensions	[mm]	1.1 / 0,6 x 1,0 mm			1.1 / 0,6 x 1,0 mm		

No. of pos.	Dim. a [mm]
2	3.81
3	7.62
4	11.43
5	15.24
6	19.05
7	22.86
8	26.67
9	30.48
10	34.29
11	38.10
12	41.91
2	5.08
3	10.16
4	15.24
5	20.32
6	25.40
7	30.48
8	35.56
9	40.64
10	45.72
11	50.80
12	55.88

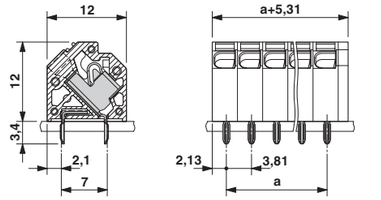


3.81 mm pitch, with 45° angled connection direction and opening lever

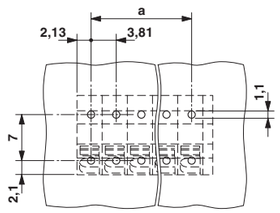


5.08 mm pitch, with 45° angled connection direction and opening lever

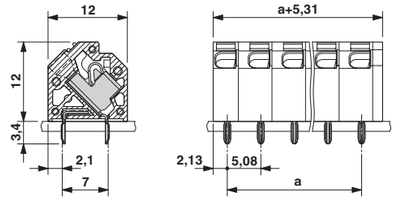
Dimensional drawing



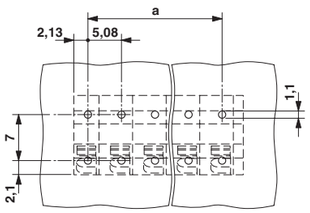
Drilling diagram



Dimensional drawing



Drilling diagram



Ordering data

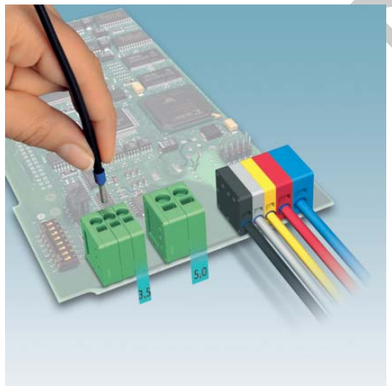
Type	Order No.	Pcs. / Pkt.
Pitch 3.81 mm, color: Green		
SPTA 1,5/ 2-3,81	**1751477**	100
SPTA 1,5/ 3-3,81	**1751480**	100
SPTA 1,5/ 4-3,81	**1751493**	50
SPTA 1,5/ 5-3,81	**1751503**	50
SPTA 1,5/ 6-3,81	**1751516**	50
SPTA 1,5/ 7-3,81	**1743184**	50
SPTA 1,5/ 8-3,81	**1751529**	50
SPTA 1,5/ 9-3,81	**1751532**	50
SPTA 1,5/10-3,81	**1751545**	50
SPTA 1,5/11-3,81	**1743197**	50
SPTA 1,5/12-3,81	**1751558**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
SPTA 1,5/ 2-5,08	**1751163**	100
SPTA 1,5/ 3-5,08	**1744442**	100
SPTA 1,5/ 4-5,08	**1751189**	50
SPTA 1,5/ 5-5,08	**1751192**	50
SPTA 1,5/ 6-5,08	**1751202**	50
SPTA 1,5/ 7-5,08	**1751215**	50
SPTA 1,5/ 8-5,08	**1751228**	50
SPTA 1,5/ 9-5,08	**1751231**	50
SPTA 1,5/10-5,08	**1751244**	50
SPTA 1,5/11-5,08	**1751257**	50
SPTA 1,5/12-5,08	**1751464**	50

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Horizontal or vertical conductor connection of up to 2.5 mm²



- PCB terminal blocks with front spring connection
- Pitch 3.5 mm
- Double solder pin for high stability on the PCB
- Generously dimensioned connection cross section with a compact 3.5 mm pitch
- Push-in direct plug-in method for solid or stranded conductors with ferrules
- When connecting stranded conductors without ferrules, the terminal point is opened using standard screwdrivers
- Horizontal and vertical types
- Larger numbers of positions on request
- Can be combined with the 5.0 mm pitch

Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.

[1]) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.

[2]) Voltages with pitch spacer

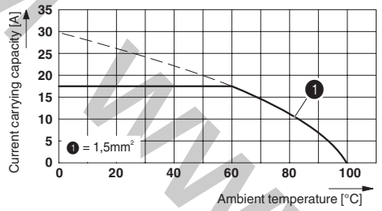
	III/3	III/2	II/2
With RZ-SPT-2,5-2,5	320 V	400 V	630 V
With RZ-SPT-2,5-5,0	500 V	630 V	800 V

Accessories

For all types	Type	Page
	Screwdriver **SZF 0-0,4 x 2,5** **Order No. 1204504**	
	Marker cards **SK 3,5/2,8**	797
	Pitch spacer, width: 2.5 mm **RZ-SPT 2,5-2,5** **Order No. 1772595**	
	Pitch spacer, width: 5 mm **RZ-SPT 2,5-5,0** **Order No. 1772605**	
	Crimping pliers for 0.25 to 6 mm² **CRIMPFOX 6** **Order No. 1212034**	

Current carrying capacity curve

Type: SPT 1,5/5-3,5-H
Test following DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5



Technical data

		SPT 1,5/ ...-H-3,5			SPT 1,5/ ...-V-3,5		
Technical data in accordance to IEC / DIN VDE							
Rated current / conductor cross section	[A] / [mm²]	17.5[1]) / 1.5			17.5[1]) / 1.5		
Rated insulation voltage for pollution degree 2	[V]	200[2])			200[2])		
Pitch	[mm]	3.5			3.5		
Connection capacity							
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 1.5 / 0.2 - 1.5 / 24 - 16			0.2 - 1.5 / 0.2 - 1.5 / 24 - 16		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 1.5			0.25 - 1.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 0.75			0.25 - 0.75		
Insulation coordination							
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	160	200[2])	400	160	200[2])	400
Rated surge voltage	[kV]	2.5	2.5	2.5	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	150	-	300	150	-	300
Nominal current	[A]	10	-	10	10	-	10
Connection capacity AWG	AWG	24 - 16	24 - 16	24 - 16	24 - 16	24 - 16	24 - 16
Approval data (CSA)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-
General data							
Stripping length	[mm]	10			10		
Type of insulation material / insulation material group		PA / I			PA / I		
Inflammability class according to UL 94		V0			V0		
Drill hole diameter / pin dimensions	[mm]	1.1 / 0,8 x 0,8 mm			1.1 / 0,8 x 0,8 mm		

No. of pos.	Dim. a [mm]
2	3.50
3	7.00
4	10.50
5	14.00
6	17.50
7	21.00
8	24.50
9	28.00
10	31.50
11	35.00
12	38.50

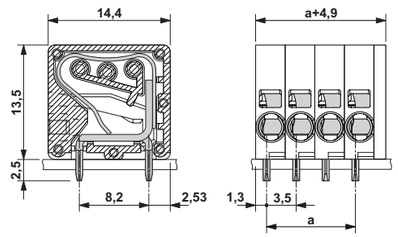


Connection direction parallel to the PCB

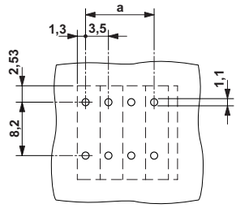


Connection direction vertical to the PCB

Dimensional drawing



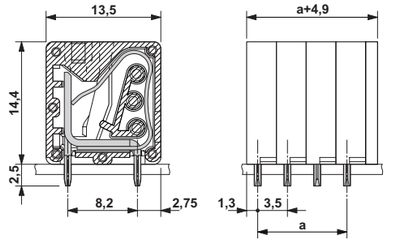
Drilling diagram



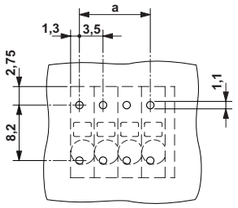
Ordering data

Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
SPT 1,5/ 2-H-3,5	**1990737**	100
SPT 1,5/ 3-H-3,5	**1990740**	100
SPT 1,5/ 4-H-3,5	**1990753**	100
SPT 1,5/ 5-H-3,5	**1990766**	100
SPT 1,5/ 6-H-3,5	**1990779**	100
SPT 1,5/ 7-H-3,5	**1990782**	50
SPT 1,5/ 8-H-3,5	**1990795**	50
SPT 1,5/ 9-H-3,5	**1990805**	50
SPT 1,5/10-H-3,5	**1990818**	50
SPT 1,5/11-H-3,5	**1990821**	50
SPT 1,5/12-H-3,5	**1990834**	50

Dimensional drawing



Drilling diagram

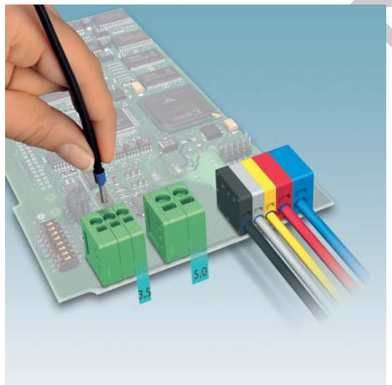


Ordering data

Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
SPT 1,5/ 2-V-3,5	**1990850**	100
SPT 1,5/ 3-V-3,5	**1990863**	100
SPT 1,5/ 4-V-3,5	**1990876**	100
SPT 1,5/ 5-V-3,5	**1990889**	100
SPT 1,5/ 6-V-3,5	**1990892**	100
SPT 1,5/ 7-V-3,5	**1990902**	50
SPT 1,5/ 8-V-3,5	**1990915**	50
SPT 1,5/ 9-V-3,5	**1990928**	50
SPT 1,5/10-V-3,5	**1990931**	50
SPT 1,5/11-V-3,5	**1990944**	50
SPT 1,5/12-V-3,5	**1990957**	50

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Horizontal or vertical conductor connection of up to 2.5 mm²



- PCB terminal blocks with front spring connection
- 5.0 mm pitch
- Double solder pin for high stability on the PCB
- Generously dimensioned connection cross section up to 2.5 mm²
- Push-in direct plug-in method for solid or stranded conductors with ferrules
- When connecting stranded conductors without ferrules, the terminal point is opened using standard screwdrivers
- Horizontal and vertical types
- Larger numbers of positions on request
- Can be combined with the 3.5 mm pitch

Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.

[1]) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.

[2]) Voltages with pitch spacer

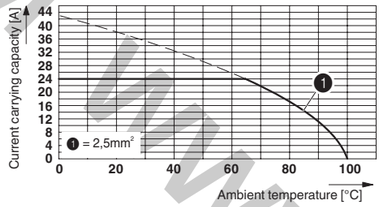
	III/3	III/2	II/2
With RZ-SPT-2,5-2,5	400 V	630 V	800 V
With RZ-SPT-2,5-5,0	630 V	800 V	1000 V

Accessories

For all types	Type	Page
	Screwdriver **SZF 1-0,6 x 3,5 Order No. 1204517**	
	Marker cards **SK 5/3,8**	798
	Pitch spacer, width: 2.5 mm **RZ-SPT 2,5-2,5 Order No. 1772595**	
	Pitch spacer, width: 5 mm **RZ-SPT 2,5-5,0 Order No. 1772605**	
	Crimping pliers for 0.25 to 6 mm² **CRIMPFOX 6 Order No. 1212034**	

Current carrying capacity curve

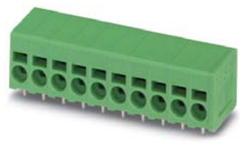
Type: SPT 2,5/5-H-5,0
Test following DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5



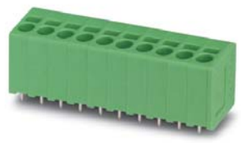
No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00
5	20.00
6	25.00
7	30.00
8	35.00
9	40.00
10	45.00
11	50.00
12	55.00

Technical data

		SPT 2,5/ ...-H-5,0			SPT 2,5/ ...-V-5,0		
Technical data in accordance to IEC / DIN VDE							
Rated current / conductor cross section	[A] / [mm²]	24[1]) / 4			24[1]) / 4		
Rated insulation voltage for pollution degree 2	[V]	400[2])			400[2])		
Pitch	[mm]	5			5		
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 4 / 0.2 - 2.5 / 24 - 12			0.2 - 4 / 0.2 - 2.5 / 24 - 12		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 2.5			0.25 - 2.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 1.5			0.25 - 1.5		
Insulation coordination							
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250	400[2])	630	250	400[2])	630
Rated surge voltage	[kV]	4	4	4	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	300	-	300	300	-	300
Nominal current	[A]	20	-	10	20	-	10
Connection capacity AWG	AWG	24 - 12	24 - 12	24 - 12	24 - 12	24 - 12	24 - 12
Approval data (CSA)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-
General data							
Stripping length	[mm]	10			10		
Type of insulation material / insulation material group		PA / I			PA / I		
Inflammability class according to UL 94		V0			V0		
Drill hole diameter / pin dimensions	[mm]	1.1 / 0,8 x 0,8 mm			1.1 / 0,8 x 0,8 mm		

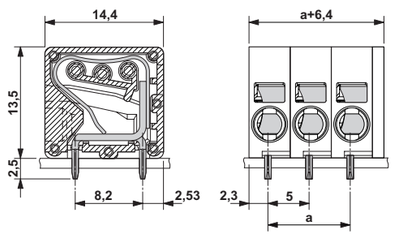


Connection direction parallel to the PCB

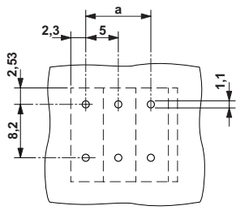


Connection direction vertical to the PCB

Dimensional drawing



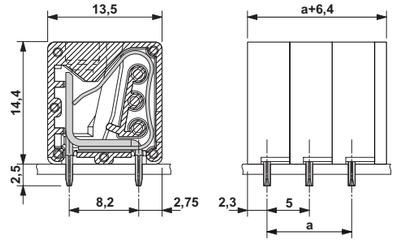
Drilling diagram



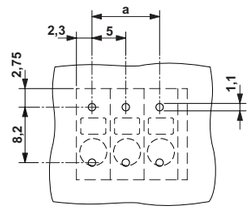
Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
SPT 2,5/ 2-H-5,0	1990973	100
SPT 2,5/ 3-H-5,0	1990986	100
SPT 2,5/ 4-H-5,0	1990999	100
SPT 2,5/ 5-H-5,0	1991008	100
SPT 2,5/ 6-H-5,0	1991011	100
SPT 2,5/ 7-H-5,0	1991024	50
SPT 2,5/ 8-H-5,0	1991037	50
SPT 2,5/ 9-H-5,0	1991040	50
SPT 2,5/10-H-5,0	1991053	50
SPT 2,5/11-H-5,0	1991066	50
SPT 2,5/12-H-5,0	1991079	50

Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
SPT 2,5/ 2-V-5,0	1991095	100
SPT 2,5/ 3-V-5,0	1991105	100
SPT 2,5/ 4-V-5,0	1991118	100
SPT 2,5/ 5-V-5,0	1991121	100
SPT 2,5/ 6-V-5,0	1991134	100
SPT 2,5/ 7-V-5,0	1991147	50
SPT 2,5/ 8-V-5,0	1991150	50
SPT 2,5/ 9-V-5,0	1991163	50
SPT 2,5/10-V-5,0	1991176	50
SPT 2,5/11-V-5,0	1991189	50
SPT 2,5/12-V-5,0	1991192	50

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With actuation rocker with a connection cross section of up to 1 mm²



- PCB terminal blocks with front spring connection
- Horizontal and vertical types
- Double solder pin for high stability on the PCB
- Push-in direct plug-in method for solid or stranded conductors with ferrules
- When connecting stranded conductors without ferrules, the terminal point is opened using an orange opening lever.
- Delivery form: position discs in blocks of 10

Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.

[1]) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.

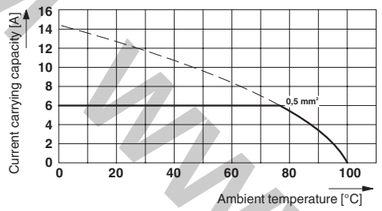
[2]) Only solid conductors

Accessories

For all types	Type	Page
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm² **CRIMPFOX 6 Order No. 1212034**	
Only for FFKDSA/...-2,54		
	Marker cards **SK 2,54/2,8**	796
Only for FFKDSA/...-3,81		
	Marker cards **SK 3,81/2,8**	797

Current carrying capacity curve

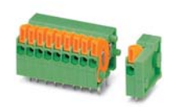
Type: FFKDS/H-2,54
Test following DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5



Technical data

		FFKDS/H-2,54			FFKDS/V-2,54			FFKDS/H-3,81		
Technical data in accordance to IEC / DIN VDE										
Rated current / conductor cross section	[A] / [mm²]	6[1]) / 0.5			6[1]) / 0.5			12[1]) / 1		
Rated insulation voltage for pollution degree 2	[V]	160			160			160		
Pitch	[mm]	2.54			2.54			3.81		
Connection capacity										
Solid / stranded	[mm²] / [mm²] / AWG	0.14 - 0.5 / 0.14 - 0.5 / 26 - 20[2])			0.14 - 0.5 / 0.14 - 0.5 / 26 - 20			0.14 - 1 / 0.14 - 1 / 26 - 18		
Stranded with ferrules without plastic sleeve	[mm²]	-			-			0.25 - 0.34		
Stranded with ferrules with plastic sleeve	[mm²]	-			-			0.25 - 0.34		
Insulation coordination										
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	63	160	320	63	160	320	160	160	320
Rated surge voltage	[kV]	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	150	-	-	150	-	-	300	-	300
Nominal current	[A]	6	-	-	6	-	-	6	-	6
Connection capacity AWG	AWG	26 - 20[2])	-	-	26 - 20[2])	-	-	26 - 16[2])	-	26 - 16[2])
Approval data (CSA)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	150	-	-	150	-	-	150	-	-
Nominal current	[A]	6	-	-	6	-	-	10	-	-
Connection capacity AWG	AWG	20[2])	-	-	20[2])	-	-	26 - 18[2])	-	-
General data										
Stripping length	[mm]	11			11			10		
Type of insulation material / insulation material group		PA / I			PA / I			PA / I		
Inflammability class according to UL 94		V0			V0			V0		
Drill hole diameter / pin dimensions	[mm]	1.1 / 0,5 x 0,8 mm			1.1 / 0,5 x 0,8 mm			1.3 / 0,5 x 1 mm		

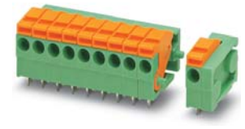
No. of pos.
1
1
1
1
1
1



2.54 mm pitch, with opening lever, conductor connection parallel to the PCB

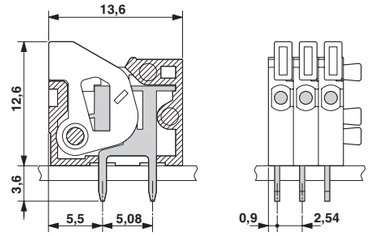


2.54 mm pitch, with opening lever, conductor connection vertical to the PCB

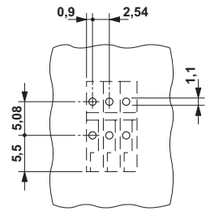


3.81 mm pitch, with opening lever, conductor connection parallel to the PCB

Dimensional drawing



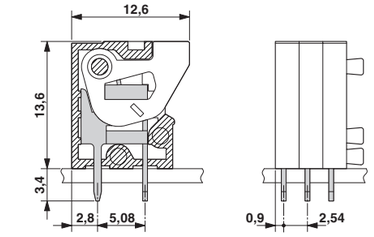
Drilling diagram



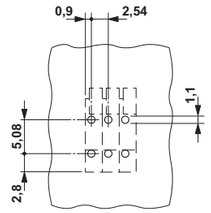
Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 2.54 mm, color: Green		
FFKDS/H-2,54	**1791826**	250
End terminal block, 5.08 mm wide, necessary at the end of a row of terminal blocks, for horizontal connection		
FFKDSA1/H-5,08	**1791868**	250

Dimensional drawing



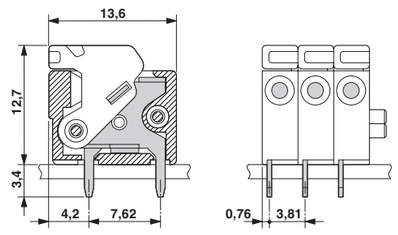
Drilling diagram



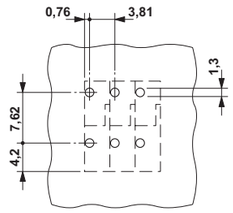
Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 2.54 mm, color: Green		
FFKDS/V-2,54	**1791813**	250
End terminal block, 5.08 mm wide, necessary at the end of a row of terminal blocks, for vertical connection		
FFKDSA1/V-5,08	**1791855**	250

Dimensional drawing



Drilling diagram

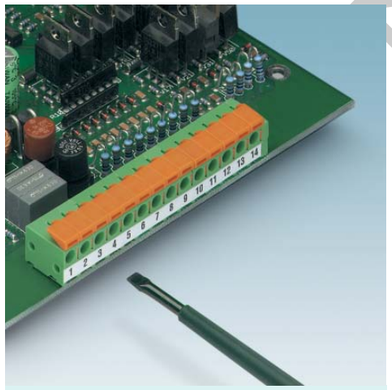


Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 3.81 mm, color: Green		
FFKDS/H-3,81	**1789650**	100
End terminal block, 6.35 mm wide, necessary at the end of a row of terminal blocks, for horizontal connection		
FFKDSA1/H-6,35	**1789634**	50

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With actuation rocker with a connection cross section of up to 1.5 mm²



- PCB terminal blocks with front spring connection
- Horizontal and vertical types
- Double solder pin for high stability on the PCB
- Push-in direct plug-in method for solid or stranded conductors with ferrules
- When connecting stranded conductors without ferrules, the terminal point is opened using an orange opening lever.
- Delivery form: position discs in blocks of 10

FFKDS/H1-5,08

- Opening lever for convenient operation using a screwdriver

FFKDS/H2-5,08

- The compact opening lever enables assembly in a housing cutout

Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.

1) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.

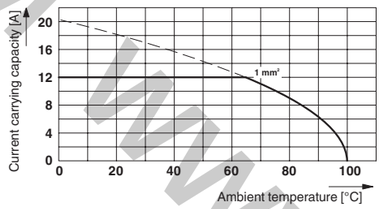
2) Only solid conductors

Accessories

For all types	Type	Page
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm² **CRIMPFOX 6 Order No. 1212034**	
Only for FFKDSA/...-3,81		
	Marker cards **SK 3,81/2,8**	797
Only for FFKDSA/...-5,08		
	Marker cards **SK 5,08/3,8**	798

Current carrying capacity curve

Type: FFKDS/V-3,81
Test following DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5

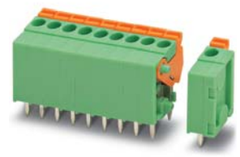


Technical data

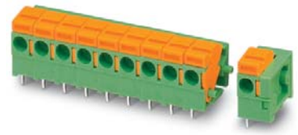
		FFKDS/V-3,81			FFKDS/H1-5,08			FFKDS/H2-5,08		
Technical data in accordance to IEC / DIN VDE										
Rated current / conductor cross section	[A] / [mm²]	12¹) / 1			15¹) / 1.5			15¹) / 1.5		
Rated insulation voltage for pollution degree 2	[V]	160			320			320		
Pitch	[mm]	3.81			5.08			5.08		
Connection capacity										
Solid / stranded	[mm²] / [mm²] / AWG	0.14 - 1 / 0.14 - 1 / 26 - 18			0.2 - 1.5 / 0.2 - 1.5 / 24 - 16			0.2 - 1.5 / 0.2 - 1.5 / 24 - 16		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 0.34			0.25 - 0.75			0.25 - 0.75		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 0.34			0.25 - 0.75			0.25 - 0.75		
Insulation coordination										
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	160	160	320	250	320	630	250	320	630
Rated surge voltage	[kV]	2.5	2.5	2.5	4	4	4	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	300	-	300	300	-	300	300	-	300
Nominal current	[A]	6	-	6	10	-	10	10	-	10
Connection capacity AWG	AWG	26 - 16	-	26 - 16	22 - 16	-	22 - 16	22 - 16	-	22 - 16
Approval data (CSA)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	150	-	-	300	-	300	300	-	300
Nominal current	[A]	10	-	-	10	-	10	10	-	10
Connection capacity AWG	AWG	26 - 18²)	-	-	16²)	-	16²)	16²)	-	16²)
General data										
Stripping length	[mm]	10			10			10		
Type of insulation material / insulation material group		PA / I			PA / I			PA / I		
Inflammability class according to UL 94		V0			V0			V0		
Drill hole diameter / pin dimensions	[mm]	1.3 / 0,5 x 1 mm			1.3 / 0,5 x 1 mm			1.3 / 0,5 x 1 mm		

No. of pos.
1
1
1
1
1
1

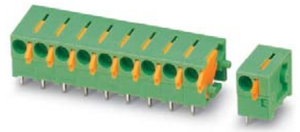
PCB terminal blocks with 2.54 to 7.62 mm pitch
PCB terminal blocks with push-in spring connection for wave soldering processes, currents up to 24 A



3.81 mm pitch, with opening lever, conductor connection vertical to the PCB

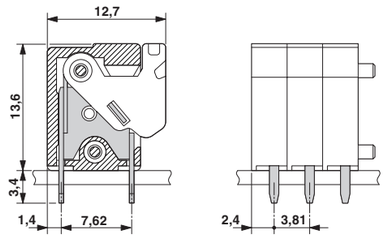


5.08 mm pitch, with opening lever, conductor connection parallel to the PCB

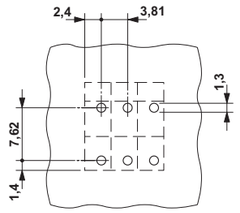


5.08 mm pitch, with shortened opening lever, conductor connection parallel to the PCB

Dimensional drawing



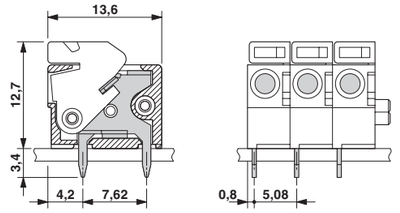
Drilling diagram



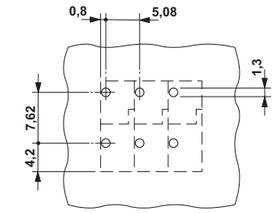
Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 3.81 mm, color: Green		
FFKDS/V-3,81	**1789647**	100
End terminal block, 6.35 mm wide, necessary at the end of a row of terminal blocks		
FFKDSA1/V-6,35	**1789621**	50

Dimensional drawing



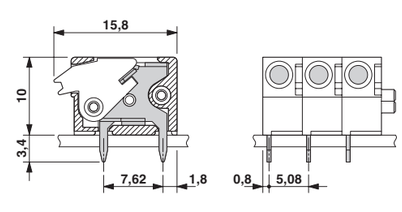
Drilling diagram



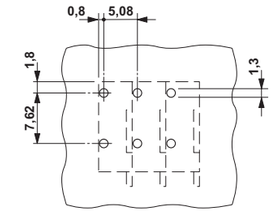
Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
FFKDS/H1-5,08	**1790335**	250
End terminal block, 7.62 mm wide, necessary at the end of a row of terminal blocks		
FFKDSA1/H1-7,62	**1790513**	250

Dimensional drawing



Drilling diagram

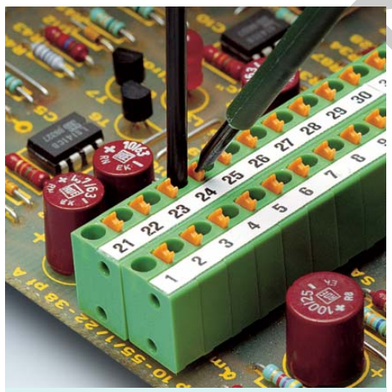


Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
FFKDS/H2-5,08	**1790461**	250
End terminal block, 7.62 mm wide, necessary at the end of a row of terminal blocks, with shortened opening lever		
FFKDSA1/H2-7,62	**1790500**	250

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With actuation rocker with a connection cross section of up to 1.5 mm²



- Double solder pin for high stability on the PCB
- Push-in direct plug-in method for solid or stranded conductors with ferrules
- When connecting stranded conductors without ferrules, the terminal point is opened using an orange opening lever.
- Delivery form: position discs in blocks of 10

FFKDS/V1-5,08 and FFKDS/H1-7,62

- Opening lever for convenient operation using a screwdriver

FFKDS/V2-5,08

- The compact opening lever enables the direct arrangement of several PCB terminal block bases in a row

Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.

[1]) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.

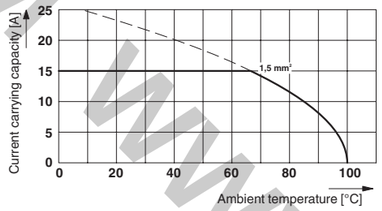
[2]) Only solid conductors

Accessories

For all types	Type	Page
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm² **CRIMPFOX 6 Order No. 1212034**	
Only for FFKDSA/...-5,08		
	Marker cards **SK 5,08/3,8**	798
Only for FFKDSA/...-7,62		
	Marker cards **SK 7,62/5**	800

Current carrying capacity curve

Type: FFKDS/V1-5,08
Test following DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5

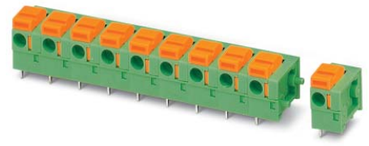




5.08 mm pitch, with opening lever, conductor connection vertical to the PCB

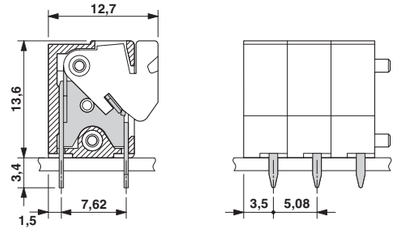


5.08 mm pitch, with shortened opening lever, conductor connection vertical to the PCB

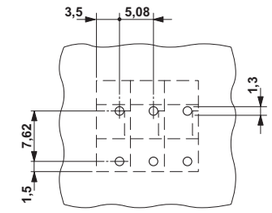


7.62 mm pitch, with opening lever, conductor connection parallel to the PCB

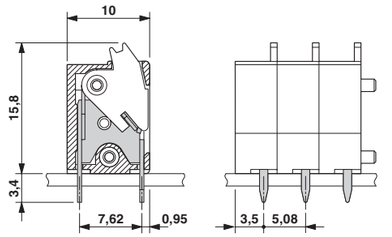
Dimensional drawing



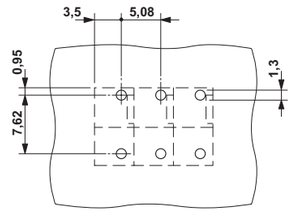
Drilling diagram



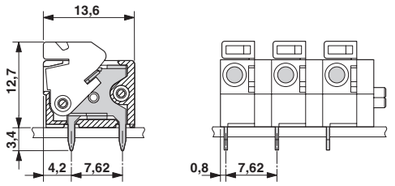
Dimensional drawing



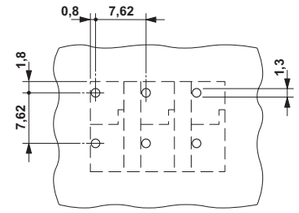
Drilling diagram



Dimensional drawing



Drilling diagram



Technical data

		FFKDS/V1-5,08			FFKDS/V2-5,08			FFKDSA/H1-7,62		
Technical data in accordance to IEC / DIN VDE										
Rated current / conductor cross section	[A] / [mm²]	15[1]) / 1.5			15[1]) / 1.5			17.5[1]) / 1.5		
Rated insulation voltage for pollution degree 2	[V]	320			320			630		
Pitch	[mm]	5.08			5.08			7.62		
Connection capacity										
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 1.5 / 0.2 - 1.5 / 24 - 16			0.2 - 1.5 / 0.2 - 1.5 / 24 - 16			0.2 - 1.5 / 0.2 - 1.5 / 24 - 16		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 0.75			0.25 - 0.75			0.25 - 0.75		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 0.75			0.25 - 0.75			0.25 - 0.75		
Insulation coordination										
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	320	320	630	320	320	630	400	630	1000
Rated surge voltage	[kV]	4	4	4	4	4	4	6	6	6
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	300	-	300	300	-	300	300	-	300
Nominal current	[A]	10	-	10	10	-	10	10	-	10
Connection capacity AWG	AWG	22 - 16	-	22 - 16	22 - 16	-	22 - 16	22 - 16	-	22 - 16
Approval data (CSA)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	300	-	300	300	-	300	300	-	300
Nominal current	[A]	10	-	10	10	-	10	10	-	10
Connection capacity AWG	AWG	16[2])	-	16[2])	16[2])	-	16[2])	16[2])	-	16[2])
General data										
Stripping length	[mm]	10			10			10		
Type of insulation material / insulation material group		PA / I			PA / I			PA / I		
Inflammability class according to UL 94		V0			V0			V0		
Drill hole diameter / pin dimensions	[mm]	1.3 / 0,5 x 1 mm			1.3 / 0,5 x 1 mm			1.3 / 0,5 x 1 mm		

No. of pos.
1
1
1
1
1
1

Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
FFKDS/V1-5,08	**1790319**	250
End terminal block, 7.62 mm wide, necessary at the end of a row of terminal blocks		
FFKDSA1/V1-7,62	**1790490**	250

Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
FFKDS/V2-5,08	**1790348**	250
End terminal block, 7.62 mm wide, necessary at the end of a row of terminal blocks, with shortened opening lever		
FFKDSA1/V2-7,62	**1790487**	250

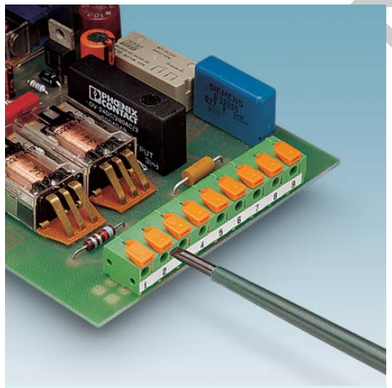
Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
FFKDSA/H1-7,62	**1790351**	250
End terminal block, 7.62 mm wide, necessary at the end of a row of terminal blocks		
FFKDSA1/H1-7,62	**1790513**	250

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PCB terminal blocks with push-in spring connection for wave soldering processes, currents up to 24 A

With actuation rocker with a connection cross section of up to 1.5 mm²



- Double solder pin for high stability on the PCB
- Push-in direct plug-in method for solid or stranded conductors with ferrules
- When connecting stranded conductors without ferrules, the terminal point is opened using an orange opening lever.
- Delivery form: position discs in blocks of 10

FFKDSA/V1-7,62
- Opening lever for convenient operation using a screwdriver

FFKDSA/H2-7,62 and FFKDSA/V2-7,62
- The compact opening lever enables assembly in a housing cutout

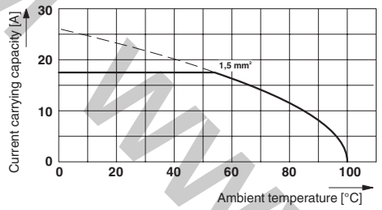
Notes:
In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.
1) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.
2) Only solid conductors.

Accessories

For all types	Type	Page
	Marker cards **SK 7,62/5**	800
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm² **CRIMPFOX 6 Order No. 1212034**	

Current carrying capacity curve

Type: FFKDSA/V1-7,62
Test following DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5



Technical data

		FFKDSA/H2-7,62			FFKDSA/V1-7,62			FFKDSA/V2-7,62		
Technical data in accordance to IEC / DIN VDE										
Rated current / conductor cross section	[A] / [mm²]	17.5[1] / 1.5			17.5[1] / 1.5			17.5[1] / 1.5		
Rated insulation voltage for pollution degree 2	[V]	630			630			630		
Pitch	[mm]	7.62			7.62			7.62		
Connection capacity										
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 1.5 / 0.2 - 1.5 / 24 - 16			0.2 - 1.5 / 0.2 - 1.5 / 24 - 16			0.2 - 1.5 / 0.2 - 1.5 / 24 - 16		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 0.75			0.25 - 0.75			0.25 - 0.75		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 0.75			0.25 - 0.75			0.25 - 0.75		
Insulation coordination										
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	400	630	1000	500	630	1000	500	630	1000
Rated surge voltage	[kV]	6	6	6	6	6	6	6	6	6
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	300	-	300	300	-	300	300	-	300
Nominal current	[A]	10	-	10	10	-	10	10	-	10
Connection capacity AWG	AWG	22 - 16	-	22 - 16	22 - 16	-	22 - 16	22 - 16	-	22 - 16
Approval data (CSA)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	300	-	300	300	-	300	300	-	300
Nominal current	[A]	10	-	10	10	-	10	10	-	10
Connection capacity AWG	AWG	16[2]	-	16[2]	16[2]	-	16[2]	16[2]	-	16[2]
General data										
Stripping length	[mm]	10			10			10		
Type of insulation material / insulation material group		PA / I			PA / I			PA / I		
Inflammability class according to UL 94		V0			V0			V0		
Drill hole diameter / pin dimensions	[mm]	1.3 / 0,5 x 1 mm			1.3 / 0,5 x 1 mm			1.3 / 0,5 x 1 mm		

No. of pos.
1
1
1
1
1
1

PCB terminal blocks with 2.54 to 7.62 mm pitch

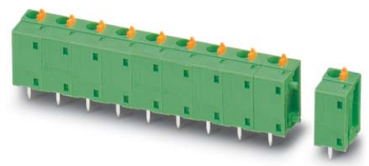
PCB terminal blocks with push-in spring connection for wave soldering processes, currents up to 24 A



7.62 mm pitch, with shortened opening lever, conductor connection parallel to the PCB

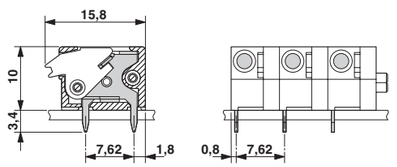


7.62 mm pitch, with opening lever, conductor connection vertical to the PCB

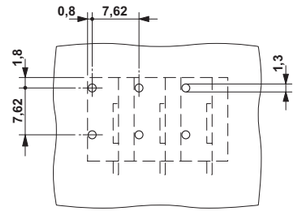


7.62 mm pitch, with shortened opening lever, conductor connection vertical to the PCB

Dimensional drawing



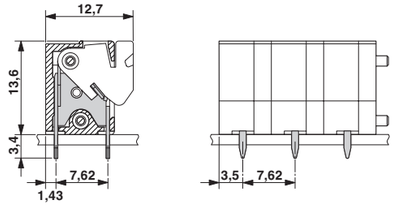
Drilling diagram



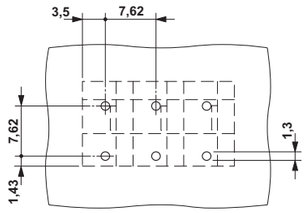
Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
FFKDSA/H2-7,62	**1790458**	250
End terminal block, 7.62 mm wide, necessary at the end of a row of terminal blocks, with shortened opening lever		
FFKDSA1/H2-7,62	**1790500**	250

Dimensional drawing



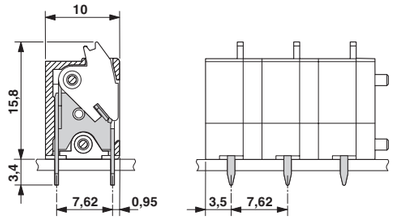
Drilling diagram



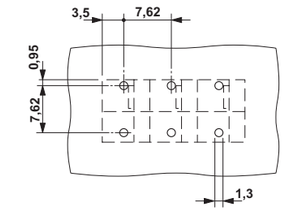
Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
FFKDSA/V1-7,62	**1790364**	250
End terminal block, 7.62 mm wide, necessary at the end of a row of terminal blocks		
FFKDSA1/V1-7,62	**1790490**	250

Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
FFKDSA/V2-7,62	**1790377**	250
End terminal block, 7.62 mm wide, necessary at the end of a row of terminal blocks, with shortened opening lever		
FFKDSA1/V2-7,62	**1790487**	250

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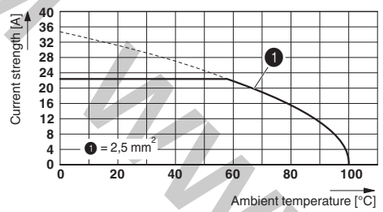
Connection cross section of up to 2.5 mm²



- Spring-cage PCB terminal block for electronic housing ME/ME MAX
- Push-in technology simplifies connection
- Design version "left" and "right"
- Pitch 5 mm
- Number of positions between 2 and 4

Current carrying capacity curve

Type: FKDSO 2,5/...KMGY
Tested in accordance with DIN EN 60512-5-2:2003-01
Reduction factor = 1



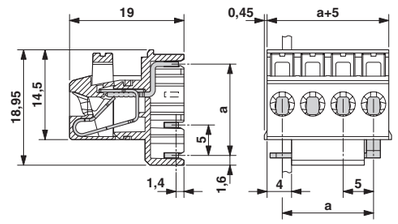


With "left" solder pins leading off at a right angle

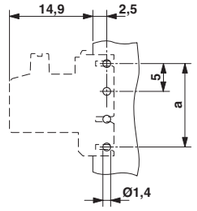


With "right" solder pins leading off at a right angle

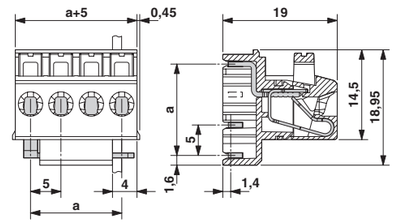
Dimensional drawing



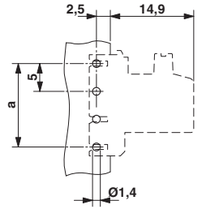
Drilling diagram



Dimensional drawing



Drilling diagram



Technical data

		FKDSO 2,5/ ...-L KMGY			FKDSO 2,5/ ...-R KMGY		
Technical data in accordance to IEC / DIN VDE							
Rated current / conductor cross section	[A] / [mm²]	22 / 2.5			22 / 2.5		
Rated insulation voltage for pollution degree 2	[V]	250			250		
Pitch	[mm]	5			5		
Connection capacity							
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 2.5 / 0.2 - 2.5 / 24 - 14			0.2 - 2.5 / 0.2 - 2.5 / 24 - 14		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 2.5			0.25 - 2.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 2.5			0.25 - 2.5		
Insulation coordination							
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250	250	250	250	250	250
Rated surge voltage	[kV]	4	4	4	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	300	-	300	300	-	300
Nominal current	[A]	10	-	5	10	-	5
Connection capacity AWG	AWG	24 - 14	-	24 - 14	24 - 14	-	24 - 14
Approval data (CSA)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-
General data							
Stripping length	[mm]	10			10		
Type of insulation material / insulation material group		PA / I			PA / I		
Inflammability class according to UL 94		V0			V0		
Drill hole diameter / pin dimensions	[mm]	1.4 / 0,8 x 1,0 mm			1.4 / 0,8 x 1,0 mm		

No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00

Ordering data

Type	Order No.	Pcs. / Pkt.
Spring-cage PCB terminal block, left, pitch 5 mm, color: light gray		
FKDSO 2,5/ 2-L KMGY	2200315	50
FKDSO 2,5/ 3-L KMGY	2200318	50
FKDSO 2,5/ 4-L KMGY	2200319	50

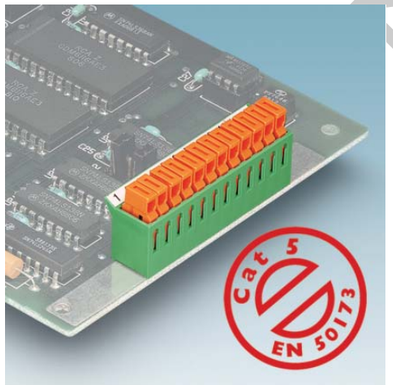
Ordering data

Type	Order No.	Pcs. / Pkt.
Spring-cage PCB terminal block, right, pitch 5 mm, color: light gray		
FKDSO 2,5/ 2-R KMGY	2200316	50
FKDSO 2,5/ 3-R KMGY	2200317	50
FKDSO 2,5/ 4-R KMGY	2200320	50

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PCB terminal blocks with 2.54 to 7.62 mm pitch
PCB terminal blocks with displacement connection for wave soldering processes, currents up to 5 A

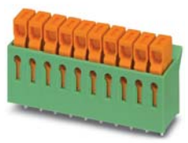
Connection cross section of up to 0.34 mm²



- PCB terminal block with fast insulation displacement connection technology with a 3.81 mm pitch
- Connection of insulated conductor without tools in a short assembly time
- With a cut-off frequency of more than 100 MHz, the IDC range fulfills the quality requirement of CAT 5 in accordance with EN 50173 and ISO/IEC 11801
- The IDC range is suitable for cables with PVC and PE insulation
- You can find user notes and recommendations for IDC technology on page 22

Notes:

[1]) Current carrying capacity curve upon request.

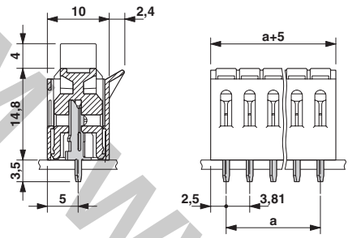


With displacement connection

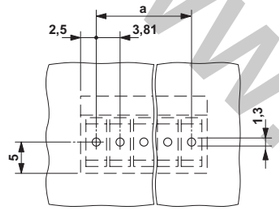
Accessories

For all types	Type	Page
	Marker cards **SK 3,81/2,8**	797

Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	5[1]) / 0.34		
Rated insulation voltage for pollution degree 2	[V]	160		
Pitch	[mm]	3.81		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	0.13 - 0.34 / 0.22 - 0.34 / 26 - 22		
Stranded with ferrules without plastic sleeve	[mm²]	-		
Stranded with ferrules with plastic sleeve	[mm²]	-		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	160	160	320
Rated surge voltage	[kV]	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	250	-	300
Nominal current	[A]	5	-	5
Connection capacity AWG	AWG	28 - 22	-	28 - 22
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	5	-	5
Connection capacity AWG	AWG	28 - 22	-	28 - 22
General data				
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.3 / 1 x 0,4 mm		

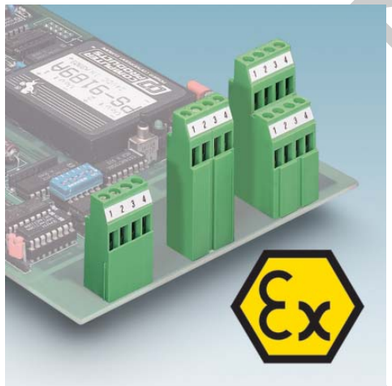
No. of pos.	Dim. a [mm]
2	3.81
3	7.62
4	11.43
5	15.24
6	19.05
7	22.86
8	26.67
9	30.48
10	34.29
11	38.10
12	41.91

Ordering data

Type	Order No.	Pcs. / Pkt.
IDC 0,3/ 2-3,81	**1706170**	50
IDC 0,3/ 3-3,81	**1706183**	50
IDC 0,3/ 4-3,81	**1706196**	50
IDC 0,3/ 5-3,81	**1706206**	50
IDC 0,3/ 6-3,81	**1706219**	50
IDC 0,3/ 7-3,81	**1706222**	50
IDC 0,3/ 8-3,81	**1706235**	50
IDC 0,3/ 9-3,81	**1706248**	50
IDC 0,3/10-3,81	**1706251**	50
IDC 0,3/11-3,81	**1706264**	50
IDC 0,3/12-3,81	**1706277**	50

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Multi-level terminal blocks with a connection cross section of up to 1.5 mm²



– High housing design suitable for potting

MKKDSH 3/...
– Single-row type, back level of the double-level PCB terminal block

MK3DSH 3/…
– Single-row type, back level of the three-level PCB terminal block

MK3DSMH 3/…
– Double-row type, middle and back level of the three-level PCB terminal block
– Other user notes and installation instructions for PCB terminal blocks in the EX area can be found at **www.phoenixcontact.net/products** and on the page 40

Accessories

For all types	Type	Page
	Screwdriver **SZS 0,6 x 3,5 Order No. 1205053**	
	Marker cards **SK 5/3,8 orSK 5,08/3,8**	798
	Single cover for individual terminal positions **EA-MKDS Order No. 1711408**	

Technical data

		MKKDSH 3/ ...-EX	MK3DSH 3/ ...-5,08-EX	MK3DSMH 3/ ...-5,08-EX
Ex e terminal blocks as per EN/IEC 60079-0 and EN/IEN 60079-7				
Ex marking	ATEX-RL / IEC60079-0	0344 Ex II 2G / Ex e II	0344 Ex II 2G / Ex e II	0344 Ex II 2G / Ex e II
Examination certificate		KEMA 01ATEX2130 U	KEMA 01ATEX2130 U	KEMA 01ATEX2130 U
IECEx certificate		IECEx KEM 07.0019 U	IECEx KEM 07.0019 U	IECEx KEM 07.0019 U
Rated voltage	[V]	176	176	176
Rated current	[A] / [2.5 mm²]	20	20	19
Connection capacity				
Solid / stranded	[mm²]	0.2 - 4 / 0.2 - 2.5	0.2 - 4 / 0.2 - 2.5	0.2 - 4 / 0.2 - 2.5
Solid / stranded	AWG	24 - 12 / 24 - 14	24 - 12 / 24 - 14	24 - 12 / 24 - 14
General data				
Stripping length	[mm]	7	7	7
Screw thread		M3	M3	M3
Tightening torque	[Nm]	0.5 - 0.6	0.5 - 0.6	0.5 - 0.6
Type of insulation material / insulation material group		PA / I	PA / I	PA / I
Inflammability class according to UL 94		V0	V0	V0
Drill hole diameter / pin dimensions	[mm]	1.3 / 0,9 x 0,9 mm	1.3 / 0,9 x 0,9 mm	1.3 / 0,9 x 0,9 mm

No. of pos.	Dim. a [mm]
2	5.00
3	10.00
2	5.08
3	10.16



31.5 mm high PCB terminal block



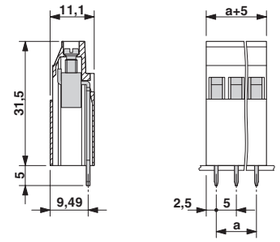
44.8 mm high PCB terminal block



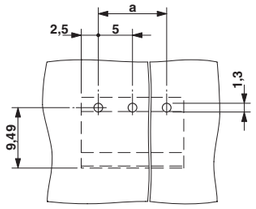
44.8 mm high double-level PCB terminal block with offset levels

Ex:

Dimensional drawing

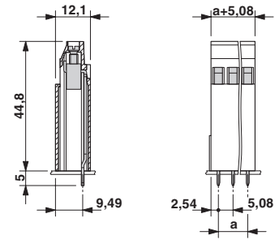


Drilling diagram

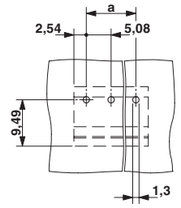


Ex:

Dimensional drawing

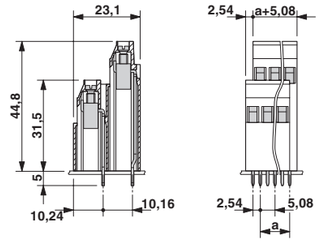


Drilling diagram

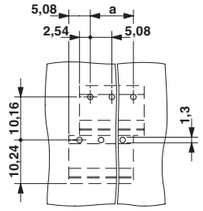


Ex:

Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MKKDSH 3/ 2-EX	**1869790**	50
MKKDSH 3/ 3-EX	**1869800**	50

Ordering data

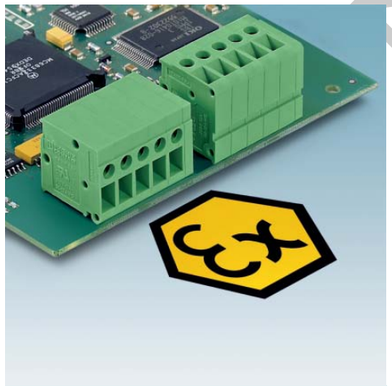
Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MK3DSH 3/ 2-5,08-EX	**1869774**	50
MK3DSH 3/ 3-5,08-EX	**1869787**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MK3DSMH 3/ 2-5,08-EX	**1870255**	50
MK3DSMH 3/ 3-5,08-EX	**1870268**	50

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Horizontal or vertical conductor connection of up to 2.5 mm²



- Conductor connection in the front
- Horizontal and vertical types
- Double solder pin for high stability on the PCB
- Pin spacing of 5 mm and 10 mm
- Delivery form: position discs in blocks of 10, cover not included
- Voltage can be increased using pitch spacers
- Other user notes and installation instructions for PCB terminal blocks in the EX area can be found at **www.phoenixcontact.net/products** and on the page 40

Notes:

[1]) 275 V with an inserted RZ 2,5-FRONT 2,5...-EX pitch spacer.
440 V with two inserted RZ 2,5-FRONT 2,5...-EX pitch spacers.

Accessories

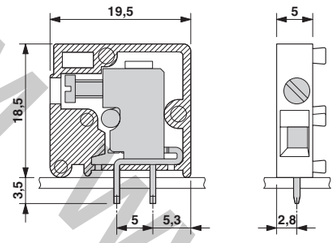
For all types	Type	Page
	Screwdriver **SZS 0,3 x 3,0** **Order No. 1207404**	
For FRONT 2,5-H/SA...EX		
	Cover **D-FRONT 2,5 H O.Z.** **Order No. 1700024**	
	Pitch spacer, width: 2.5 mm **RZ 2,5-FRONT 2,5 H-EX** **Order No. 1701269**	
For FRONT 2,5-V/SA...EX		
	Cover **D-FRONT 2,5 V O.Z.** **Order No. 1700011**	
	Pitch spacer, width: 2.5 mm **RZ 2,5-FRONT 2,5 V-EX** **Order No. 1700794**	



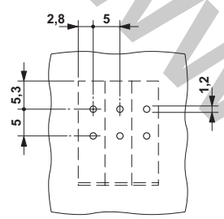
Horizontal connection direction, 5 mm pin spacing

Ex:

Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
FRONT 2,5-H/SA 5-EX	**1701159**	50

Technical data

Ex e terminal blocks as per EN/IEC 60079-0 and EN/IEN 60079-7		
Ex marking	ATEX-RL / IEC60079-0	0344 Ex II 2G / Ex e II
Examination certificate		KEMA 00ATEX2053 U
IECEx certificate		IECEx KEM 07.0023 U
Rated voltage	[V]	176[1])
Rated current	[A] / [2.5 mm²]	20
Connection capacity		
Solid / stranded	[mm²]	0.2 - 2.5 / 0.2 - 2.5
Solid / stranded	AWG	24 - 14 / 24 - 14
General data		
Stripping length	[mm]	9
Screw thread		M2,5
Tightening torque	[Nm]	0.4 - 0.5
Type of insulation material / insulation material group		PA / I
Inflammability class according to UL 94		V0
Drill hole diameter / pin dimensions	[mm]	1.2 / 0,8 x 0,8 mm

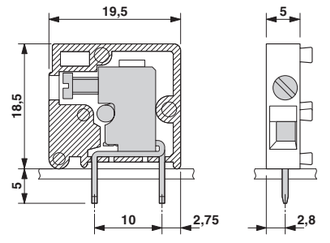
No. of pos.
1



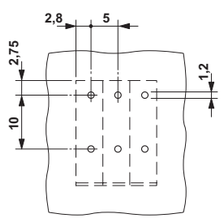
Horizontal connection direction, 10 mm pin spacing

Ex:

Dimensional drawing



Drilling diagram



Ordering data

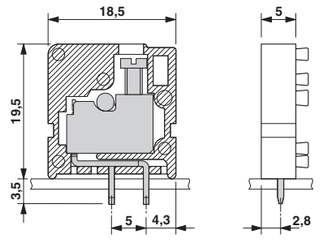
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
FRONT 2,5-H/SA10-EX	**1700325**	50



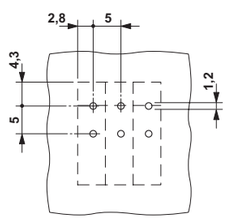
Vertical connection direction, 5 mm pin spacing

Ex:

Dimensional drawing



Drilling diagram



Ordering data

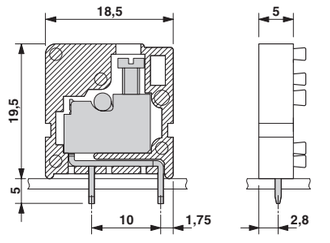
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
FRONT 2,5-V/SA 5-EX	**1701162**	50



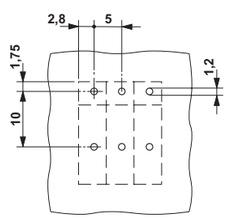
Vertical connection direction, 10 mm pin spacing

Ex:

Dimensional drawing



Drilling diagram

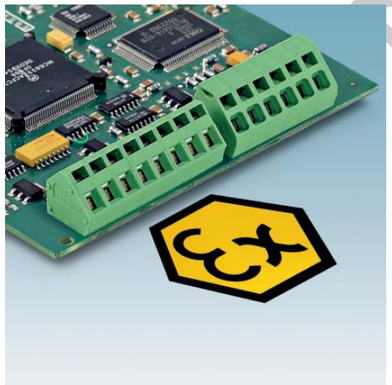


Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
FRONT 2,5-V/SA10-EX	**1700309**	50

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Angled conductor connection of up to 2.5 mm²



- Single terminal block with spring-cage connection
- Compact housing dimensions
- Double solder pin for high stability on the PCB
- A plate-type design enables blocking for larger number of positions
- Desk shape with a clear delimitation of the conductor entry and the actuation opening (screwdriver shaft)
- Delivery form: position discs in blocks of 10, end terminal block not included
- Other user notes and installation instructions for PCB terminal blocks in the EX area can be found at **www.phoenixcontact.net/products** and on the page 40

Notes:

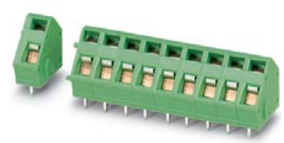
1) 275 V with an inserted RZ-ZFKDS 2,5 pitch spacer, order no. 1931039.

Accessories

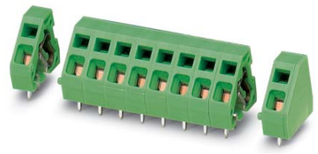
For all types	Type	Page
	Screwdriver **SZF 1-0,6 x 3,5 Order No. 1204517**	
Only for ZFKDS 1,5C-5,0-EX		
	Marker cards **SK 5/3,8**	798
Only for ZFKDS 2,5-5,08-EX		
	Pitch spacer, width: 2.54 mm **RZ-ZFKDS 2,5 Order No. 1931039**	
	Marker cards **SK 5,08/3,8**	798

Technical data

		ZFKDS 1,5C-5,0-EX	ZFKDS 2,5-5,08-EX
Ex e terminal blocks as per EN/IEC 60079-0 and EN/IEN 60079-7			
Ex marking	ATEX-RL / IEC60079-0	0344 Ex II 2G / Ex e II	0344 Ex II 2G / Ex e II
Examination certificate		PTB 06ATEX1073 U	PTB 06ATEX1073 U
IECEx certificate		IECEx PTB 06.0096.U	IECEx PTB 06.0096.U
Rated voltage	[V]	176	137¹)
Rated current	[A] / [2.5 mm²]	16	22
Connection capacity			
Solid / stranded	[mm²]	0.2 - 2.5 / 0.2 - 1.5	0.2 - 4 / 0.2 - 2.5
Solid / stranded	AWG	24 - 14 / 24 - 16	24 - 14 / 24 - 16
General data			
Stripping length	[mm]	7	7
Screw thread		-	-
Tightening torque	[Nm]	-	-
Type of insulation material / insulation material group		PA / I	PA / I
Inflammability class according to UL 94		V0	V0
Drill hole diameter / pin dimensions	[mm]	1.1 / 0,7 x 0,7	1.3 / 0,8 x 0,8



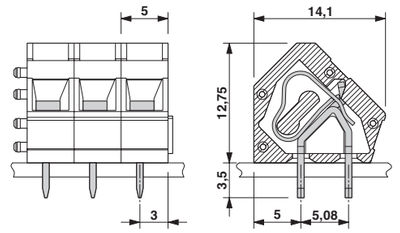
1.5 mm² connection cross section, compact design



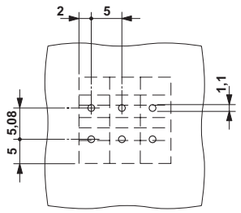
2.5 mm² connection cross section

Ex:

Dimensional drawing



Drilling diagram



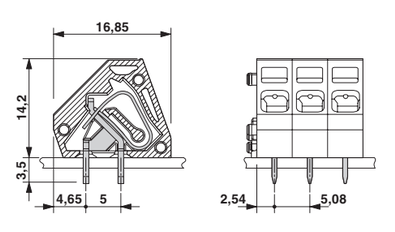
No. of pos.
1
1
1
1
1

Ordering data

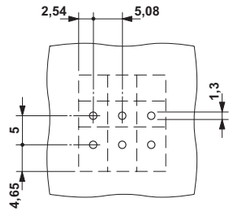
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
ZFKDS 1,5C-5,0-EX	**1732111**	50
End terminal, 6.4 mm wide, necessary at the end of a row of terminal blocks		
ZFKDSA 1,5C-6,0-EX	**1732124**	50

Ex:

Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
ZFKDS 2,5-5,08-EX	**1732137**	50
End terminal block, 5.08 mm wide, necessary at the end of a row of terminal blocks (left), if a smooth side element is desired		
ZFKDS 2,5-5,08 L-EX	**1732140**	50
End terminal block, 6.08 mm wide, necessary at the end of a row of terminal blocks (right)		
ZFKDSA 2,5-6,08 R-EX	**1732153**	50

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Horizontal or vertical conductor connection of up to 2.5 mm²



- Front Push-in spring-cage connection
- Horizontal and vertical types
- Double solder pin for high stability on the PCB
- Push-in direct plug-in method for solid and stranded conductors with ferrules
- The terminal point must be opened using a standard screwdriver for the connection of a stranded conductor without ferrule
- Voltage can be increased using pitch spacers
- Other user notes and installation instructions for PCB terminal blocks in the EX area can be found at **www.phoenixcontact.net/products** and on the page 40

Notes:

The following ferrules can be used for these PCB terminal blocks:
3201275 AI 0,5-10WH
3201288 AI 0,75-10GY
3200182 AI 1-10RD
3200195 AI 1,5-10BK
3202533 AI 2,5-10BU

[1]) 275 V with an inserted RZ-SPT 2,5-2,5 pitch spacer.
440 V with an inserted RZ-SPT 2,5-5,0 pitch spacer.

Accessories

For all types	Type	Page
	Screwdriver **SZF 1-0,6 x 3,5 Order No. 1204517**	
	Marker cards **SK 5/3,8**	798
	Pitch spacer, width: 2.5 mm **RZ-SPT 2,5-2,5 Order No. 1772595**	
	Pitch spacer, width: 5 mm **RZ-SPT 2,5-5,0 Order No. 1772605**	
	Crimping pliers for 0.25 to 6 mm² **CRIMPFOX 6 Order No. 1212034**	

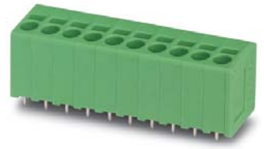
Technical data

		SPT 2,5/ ...-H-5,0-EX	SPT 2,5/ ...-V-5,0-EX
Ex e terminal blocks as per EN/IEC 60079-0 and EN/IEN 60079-7			
Ex marking	ATEX-RL / IEC60079-0	0344 Ex II 2G / Ex e II	0344 Ex II 2G / Ex e II
Examination certificate		KEMA 07ATEX0193 U	KEMA 07ATEX0193 U
IECEx certificate		IECEx KEM 07.0057 U	IECEx KEM 07.0057 U
Rated voltage	[V]	176[1])	176[1])
Rated current	[A] / [2.5 mm²]	23	23
Connection capacity			
Solid / stranded	[mm²]	0.2 - 4 / 0.2 - 2.5	0.2 - 4 / 0.2 - 2.5
Solid / stranded	AWG	24 - 14 / 24 - 12	24 - 14 / 24 - 12
General data			
Stripping length	[mm]	10	10
Screw thread		-	-
Tightening torque	[Nm]	-	-
Type of insulation material / insulation material group		PA / I	PA / I
Inflammability class according to UL 94		V0	V0
Drill hole diameter / pin dimensions	[mm]	1.1 / 0,8 x 0,8	1.1 / 0,8 x 0,8

PCB terminal blocks with 2.54 to 7.62 mm pitch
PCB terminal blocks with spring connection for the Ex area for wave soldering processes



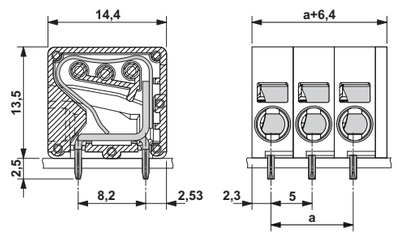
Connection direction parallel to the PCB



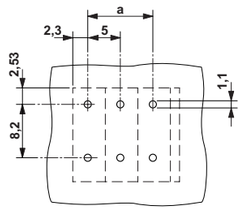
Connection direction vertical to the PCB

Ex:

Dimensional drawing

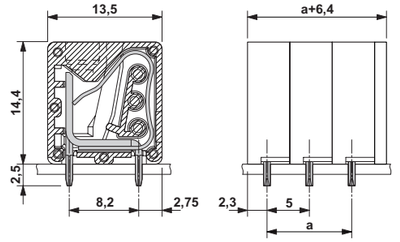


Drilling diagram

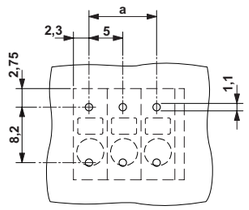


Ex:

Dimensional drawing



Drilling diagram



No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00
5	20.00
6	25.00
7	30.00
8	35.00
9	40.00
10	45.00
11	50.00
12	55.00

Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
SPT 2,5/ 2-H-5,0-EX	1732386	50
SPT 2,5/ 3-H-5,0-EX	1732399	50
SPT 2,5/ 4-H-5,0-EX	1732409	50
SPT 2,5/ 5-H-5,0-EX	1732412	50
SPT 2,5/ 6-H-5,0-EX	1732425	50
SPT 2,5/ 7-H-5,0-EX	1732438	50
SPT 2,5/ 8-H-5,0-EX	1732441	50
SPT 2,5/ 9-H-5,0-EX	1732454	50
SPT 2,5/10-H-5,0-EX	1732467	50
SPT 2,5/11-H-5,0-EX	1732470	50
SPT 2,5/12-H-5,0-EX	1732483	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
SPT 2,5/ 2-V-5,0-EX	1732496	50
SPT 2,5/ 3-V-5,0-EX	1732506	50
SPT 2,5/ 4-V-5,0-EX	1732519	50
SPT 2,5/ 5-V-5,0-EX	1732522	50
SPT 2,5/ 6-V-5,0-EX	1732535	50
SPT 2,5/ 7-V-5,0-EX	1732548	50
SPT 2,5/ 8-V-5,0-EX	1732551	50
SPT 2,5/ 9-V-5,0-EX	1732564	50
SPT 2,5/10-V-5,0-EX	1732577	50
SPT 2,5/11-V-5,0-EX	1732580	50
SPT 2,5/12-V-5,0-EX	1732593	50

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PCB isolating connectors



- Easy circuit disconnection using removable isolating connectors
- A special snap-lock fitting ensures a tight fit of the slide even when the disconnect point is open.
- Can be used as an individual element or in combination with PCB terminal blocks with a 5.08 mm pitch
- Operation of the isolating connector with the help of a TZ connector extraction tool offered as an accessory or a screwdriver

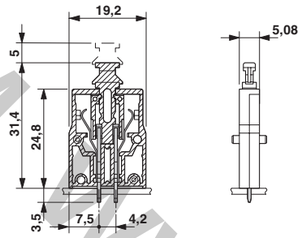


PCB disconnect plugs

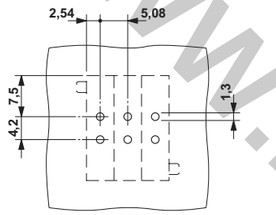
Accessories

For all types	Type	Page
	Test plug **MPS**	831
	Reducing plug **RPS** **Order No. 0201647**	831
	TZ connector extraction tool as pullout aid for the disconnect slide TZ **Order No. 0306704**	

Dimensional drawing



Drilling diagram



Technical data

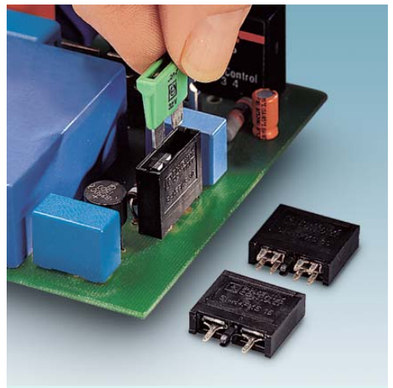
Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	12 / 0		
Rated insulation voltage for pollution degree 2	[V]	320		
Pitch	[mm]	5.08		
Multi-conductor connection capacity (two conductors with the same cross section)				
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250	320	400
Rated surge voltage	[kV]	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.3 / 0,8 x 0,9 mm		

No. of pos.
1

Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
PTS-5,08	**1876521**	50

Flat-type fuse holders



- Fuse holders for flat-type fuses with a maximum nominal voltage of 32 V
- With SNAP IN foot for safe pre-assembly on the PCB

SI-H-FKS 15
- For fuses with a nominal current of 2 to 15 A

SI-H-FKS 30
- For fuses with a nominal current of 2 to 30 A

Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	- / 0		
Rated insulation voltage for pollution degree 2	[V]	-		
Pitch	[mm]	0		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]			
Rated surge voltage	[kV]			
General data				
Type of insulation material / insulation material group		- / -		
Inflammability class according to UL 94		-		

Notes:

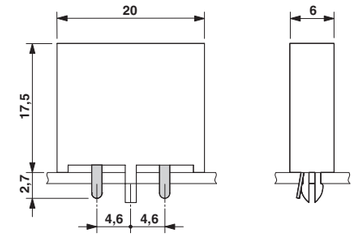
In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

For dimensional drawing and drilling diagram for SI-H-FKS 30, visit **www.phoenixcontact.net/products**.

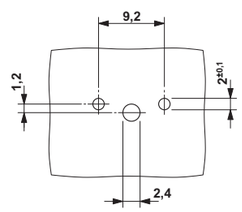


PCB fuse carrier for 5 mm wide automotive flat-type fuses

Dimensional drawing



Drilling diagram

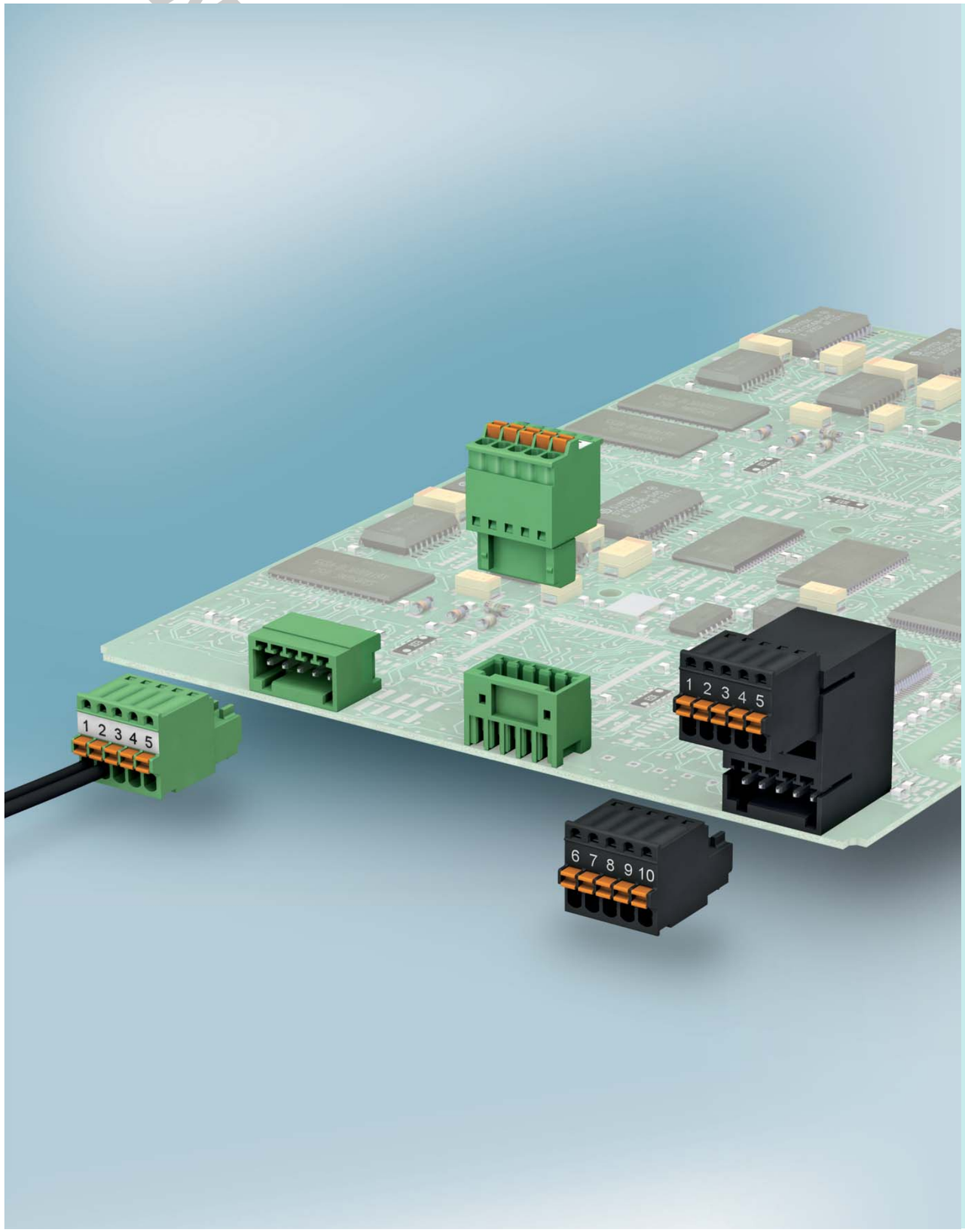


No. of pos.
1
1

Ordering data

Type	Order No.	Pcs. / Pkt.
Printed circuit fuse carrier, for 5 mm wide automotive flat-type fuses up to max. 15 A		
SI-H-FKS 15	**1728996**	50
Printed circuit fuse carrier, for 5 mm wide automotive flat-type fuses up to max. 30 A		
SI-H-FKS 30	**1727528**	50
Flat-type fuse inserts, (max. 32 V) acc. to ISO/DIS 8820/2 DIN 72 581-3		
SI FORM C 2 A	**0913689**	50
SI FORM C 4 A DIN 72581	**0913731**	50
SI FORM C 5 A DIN 72581	**0913692**	50
SI FORM C 7,5 A DIN 72581	**0913702**	50
SI FORM C 10 A DIN 72581	**0913715**	50
SI FORM C 15 A DIN 72581	**0913676**	50
SI FORM C 20 A DIN 72581	**0913744**	50
SI FORM C 25 A DIN 72581	**0913757**	50
SI FORM C 30 A DIN 72581	**0913760**	50

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Plug-in connector systems with 2.5 and 2.54 mm pitch

The plug-in connectors in the COMBICON Micro series offer maximum packing density on the PCB or on the front of the device.

Convenient conductor connection is ensured by the push-in spring connection up to 0.5 mm² with orange spring lever
The plug-in connectors are available with 2.5/2.54 mm micro pitch.

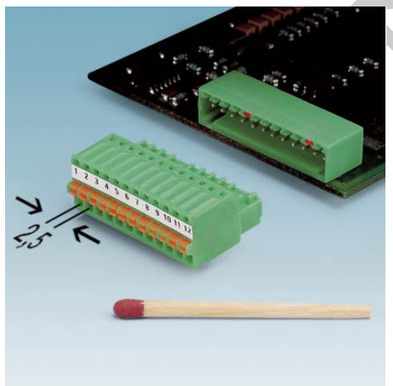
Single and double-level headers for the SMT process and wave soldering are available on the PCB side.

High-temperature-resistant headers with 2.54 mm pitch are supplied in tape-on-reel packing for automated SMT processes.

In addition, the FMC 0,5/MC 0,5 plug-in connector system offers the advantage of a gold-plated contact system.

MICRO-COMBICON plug-in connectors Pitch 2.5 mm up to 4 A	**168**
Plug with push-in spring connection	**168**
Headers for reflow processes	**170**
Headers for wave soldering processes	**172**
MICRO COMBICON plug-in connectors, 2.54 mm pitch up to 6 A	**174**
Plug with push-in spring connection	**174**
Headers for reflow/SMD processes	**176**

Plug with push-in spring connection



- Possible combinations with MC(V) 0,5 and MCD(V) 0,5 headers with 2.5 mm pitch
- Fast conductor connection, thanks to push-in spring connection
- Convenient operation of the terminal point using a screwdriver
- Test connection to accommodate 1 mm Ø test connector
- Individual position keying by removing the keying tab and connecting the keying profile to the header

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
Possible combinations for plug-in connectors can be found in COMBICON select at **www.phoenixcontact.net/products**.

Derating curves according to DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Number of positions = see diagram

[1]) Please observe the derating curves. Derating curves of further combination options on request.

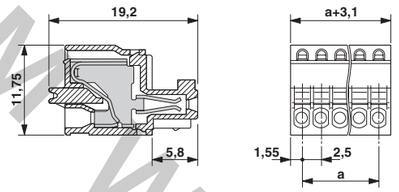


Plug with push-in spring connection

Accessories

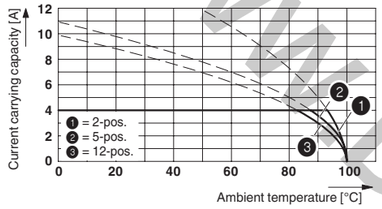
For all types	Type	Page
	Screwdriver **SZS 0,4 X 2,0 Order No. 1205202**	
	Marker cards **SK 2,54/2,8**	796
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm² **CRIMPFOX 6 Order No. 1212034**	
	Test plug **MPS-MT 1-S Order No. 1944372**	831

Dimensional drawing



Representative derating curve

FK-MC 0,5/...-ST-2,5 with MCV 0,5/...-G-2,5
Cond. cross section = 0.5 mm²/Reduction factor = 0.8



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	4[1]) / 0.5		
Rated insulation voltage for pollution degree 2	[V]	160		
Pitch	[mm]	2.5		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	0.14 - 0.5 / 0.14 - 0.5 / 26 - 20		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 0.5		
Stranded with ferrules with plastic sleeve	[mm²]	-		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	- / -		
Stranded with ferrules without plastic sleeve	[mm²]	-		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	-		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	100	160	320
Rated surge voltage	[kV]	1.5	2.5	2.5
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	125	-	-
Nominal current	[A]	4	-	-
Connection capacity AWG	AWG	28 - 20	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Stripping length	[mm]	8		
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		

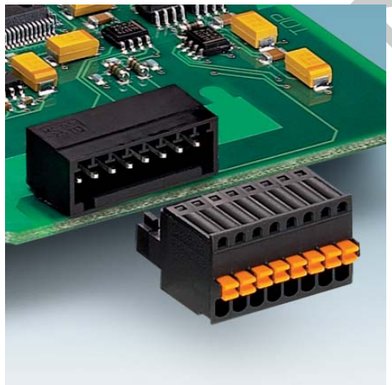
No. of pos.	Dim. a [mm]
2	2.50
3	5.00
4	7.50
5	10.00
6	12.50
7	15.00
8	17.50
9	20.00
10	22.50
11	25.00
12	27.50

Ordering data

Type	Order No.	Pcs. / Pkt.
Plugs, 2.5 mm pitch, color: Green		
FK-MC 0,5/ 2-ST-2,5	**1881325**	50
FK-MC 0,5/ 3-ST-2,5	**1881338**	50
FK-MC 0,5/ 4-ST-2,5	**1881341**	50
FK-MC 0,5/ 5-ST-2,5	**1881354**	50
FK-MC 0,5/ 6-ST-2,5	**1881367**	50
FK-MC 0,5/ 7-ST-2,5	**1881370**	50
FK-MC 0,5/ 8-ST-2,5	**1881383**	50
FK-MC 0,5/ 9-ST-2,5	**1881396**	50
FK-MC 0,5/10-ST-2,5	**1881406**	50
FK-MC 0,5/11-ST-2,5	**1881419**	50
FK-MC 0,5/12-ST-2,5	**1881422**	50

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Single-level header for reflow processes



- Application in SMT reflow processes
- Low-profile THR headers with a compact MICRO pitch of 2.5 mm
- Delivery form: Box packaging; bulk for small series
- Delivery form: Taped packaging in accordance with IEC 60286-3 for automatic assembly
- Coil diameter 330 mm, tape width 44 mm
- Alternative pin lengths 1.4 mm or 2.6 mm on request
- Can be combined with FK-MC 0 plug
- You can find user notes and recommendations for THR procedure on page 27

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

The CP-MC 0,5 keying profile may only be used after reflow soldering.

Pick and place pads for taped THR articles usually protrude beyond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of tape reels and place pads can be found online at **www.phoenixcontact.net/products**.

COMBICON select
Possible combinations for plug-in connectors can be found in COMBICON select at **www.phoenixcontact.net/products**.

Accessories

For all types	Type	Page
	Keying profile CP-MC 0,5 **Order No. 1881435**	38
	Marker cards **SK 2,54/2,8**	796



box-packaged headers, plug-in direction parallel to the PCB



box-packaged headers, plug-in direction vertical to the PCB

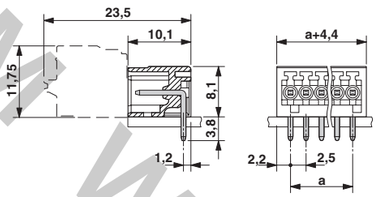


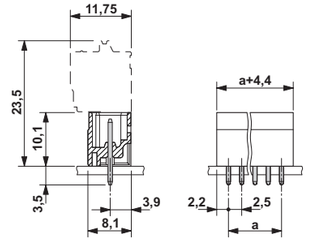
Taped headers, plug-in direction parallel to the PCB

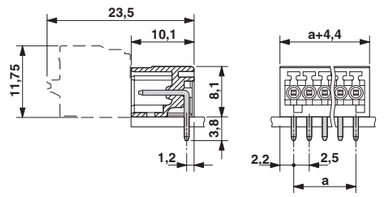


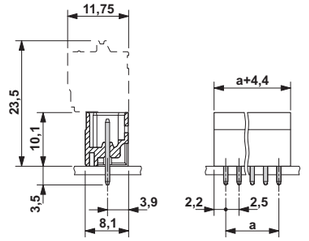
Taped headers, Plug-in direction vertical to the PCB

Dimensional drawing









Drilling diagram

Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current	[A]	4		
Rated insulation voltage for pollution degree 2	[V]	160		
Pitch	[mm]	2.5		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	32	160	160
Rated surge voltage	[kV]	1.5	2.5	2.5
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	125	-	-
Nominal current	[A]	4	-	-
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		PA / IIIa		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.4 / 0,8 x 0,8 mm		

Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		2.5 mm pitch, color: black		
2	2.50	**MC 0,5/ 2-G-2,5 THT**	**1963421**	50
3	5.00	**MC 0,5/ 3-G-2,5 THT**	**1963434**	50
4	7.50	**MC 0,5/ 4-G-2,5 THT**	**1963447**	50
5	10.00	**MC 0,5/ 5-G-2,5 THT**	**1963450**	50
6	12.50	**MC 0,5/ 6-G-2,5 THT**	**1963463**	50
7	15.00	**MC 0,5/ 7-G-2,5 THT**	**1963476**	50
8	17.50	**MC 0,5/ 8-G-2,5 THT**	**1939303**	50
9	20.00	**MC 0,5/ 9-G-2,5 THT**	**1963492**	50
10	22.50	**MC 0,5/10-G-2,5 THT**	**1963502**	50
11	25.00	**MC 0,5/11-G-2,5 THT**	**1963515**	50
12	27.50	**MC 0,5/12-G-2,5 THT**	**1939316**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
2.5 mm pitch, color: black		
MCV 0,5/ 2-G-2,5 THT	**1963531**	50
MCV 0,5/ 3-G-2,5 THT	**1963544**	50
MCV 0,5/ 4-G-2,5 THT	**1963557**	50
MCV 0,5/ 5-G-2,5 THT	**1963560**	50
MCV 0,5/ 6-G-2,5 THT	**1963573**	50
MCV 0,5/ 7-G-2,5 THT	**1963586**	50
MCV 0,5/ 8-G-2,5 THT	**1963599**	50
MCV 0,5/ 9-G-2,5 THT	**1963609**	50
MCV 0,5/10-G-2,5 THT	**1963612**	50
MCV 0,5/11-G-2,5 THT	**1963625**	50
MCV 0,5/12-G-2,5 THT	**1963638**	50

Ordering data

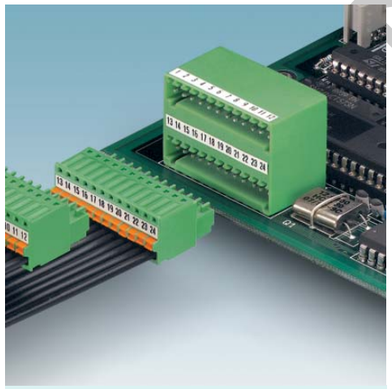
Type	Order No.	Pcs. / Pkt.
2.5 mm pitch, color: black		
MC 0,5/ 2-G-2,5 THT R44	**1963641**	330
MC 0,5/ 3-G-2,5 THT R44	**1963654**	330
MC 0,5/ 4-G-2,5 THT R44	**1963667**	330
MC 0,5/ 5-G-2,5 THT R44	**1963670**	330
MC 0,5/ 6-G-2,5 THT R44	**1963683**	330
MC 0,5/ 7-G-2,5 THT R44	**1963696**	330
MC 0,5/ 8-G-2,5 THT R44	**1963706**	330
MC 0,5/ 9-G-2,5 THT R44	**1963719**	330
MC 0,5/10-G-2,5 THT R44	**1963722**	330
MC 0,5/11-G-2,5 THT R44	**1963735**	330
MC 0,5/12-G-2,5 THT R44	**1963748**	330

Ordering data

Type	Order No.	Pcs. / Pkt.
2.5 mm pitch, color: black		
MCV 0,5/ 2-G-2,5 THT R44	**1963751**	220
MCV 0,5/ 3-G-2,5 THT R44	**1963764**	220
MCV 0,5/ 4-G-2,5 THT R44	**1963777**	220
MCV 0,5/ 5-G-2,5 THT R44	**1963780**	220
MCV 0,5/ 6-G-2,5 THT R44	**1963793**	220
MCV 0,5/ 7-G-2,5 THT R44	**1963803**	220
MCV 0,5/ 8-G-2,5 THT R44	**1963816**	220
MCV 0,5/ 9-G-2,5 THT R44	**1963829**	220
MCV 0,5/10-G-2,5 THT R44	**1963845**	220
MCV 0,5/11-G-2,5 THT R44	**1963858**	220
MCV 0,5/12-G-2,5 THT R44	**1963861**	220

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Single and double-level headers for wave soldering processes



– Can be combined with FK-MC 0 plug

MC(V) 0,5/...G
– Low-profile headers with a compact MICRO pitch of 2.5 mm
– Plug-in direction parallel and vertical to the PCB
– Individual position encoding by inserting the keying profiles

MCD(V) 0,5/...-G1
– Low-profile double-level headers with high contact density
– Plug-in direction parallel and vertical to the PCB
– Without a level offset, for flush installation in the front of the devices

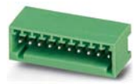
Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
Possible combinations for plug-in connectors can be found in COMBICON select at **www.phoenixcontact.net/products**.

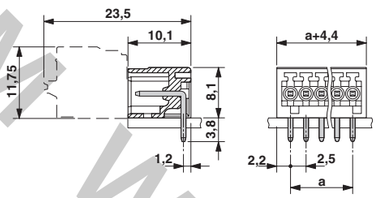
Accessories

For all types	Type	Page
	Keying profile CP-MC 0,5 **Order No. 1881435**	38
	Marker cards **SK 2,54/2,8**	796

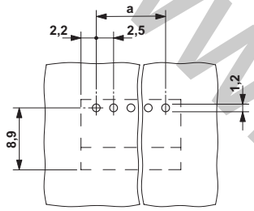


Single-level header, plug-in direction parallel to the PCB

Dimensional drawing



Drilling diagram



Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		Pitch 2.5 mm, color: Green		
2	2.50	**MC 0,5/ 2-G-2,5**	**1881448**	50
3	5.00	**MC 0,5/ 3-G-2,5**	**1881451**	50
4	7.50	**MC 0,5/ 4-G-2,5**	**1881464**	50
5	10.00	**MC 0,5/ 5-G-2,5**	**1881477**	50
6	12.50	**MC 0,5/ 6-G-2,5**	**1881480**	50
7	15.00	**MC 0,5/ 7-G-2,5**	**1881493**	50
8	17.50	**MC 0,5/ 8-G-2,5**	**1881503**	50
9	20.00	**MC 0,5/ 9-G-2,5**	**1881516**	50
10	22.50	**MC 0,5/10-G-2,5**	**1881529**	50
11	25.00	**MC 0,5/11-G-2,5**	**1881532**	50
12	27.50	**MC 0,5/12-G-2,5**	**1881545**	50

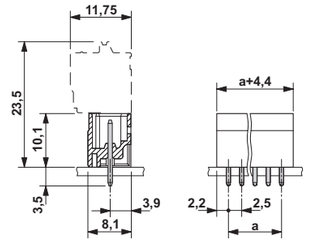
Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current	[A]	4		
Rated insulation voltage for pollution degree 2	[V]	160		
Pitch	[mm]	2.5		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	80	160	320
Rated surge voltage	[kV]	1.5	2.5	2.5
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	125	-	-
Nominal current	[A]	4	-	-
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.2 / 0,8 x 0,8 mm		

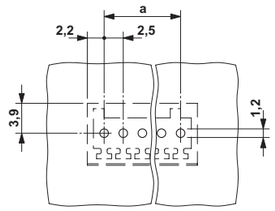


Single-level header, plug-in direction vertical to the PCB

Dimensional drawing



Drilling diagram



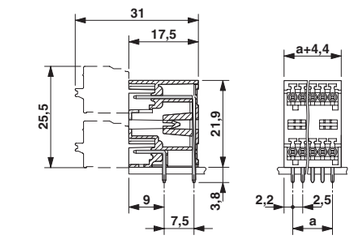
Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 2.5 mm, color: Green		
MCV 0,5/ 2-G-2,5	**1881558**	50
MCV 0,5/ 3-G-2,5	**1881561**	50
MCV 0,5/ 4-G-2,5	**1881574**	50
MCV 0,5/ 5-G-2,5	**1881587**	50
MCV 0,5/ 6-G-2,5	**1881590**	50
MCV 0,5/ 7-G-2,5	**1881600**	50
MCV 0,5/ 8-G-2,5	**1881613**	50
MCV 0,5/ 9-G-2,5	**1881626**	50
MCV 0,5/10-G-2,5	**1881639**	50
MCV 0,5/11-G-2,5	**1881642**	50
MCV 0,5/12-G-2,5	**1881655**	50

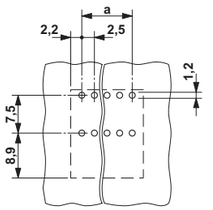


Double-level headers, Plug-in direction parallel to the PCB

Dimensional drawing



Drilling diagram



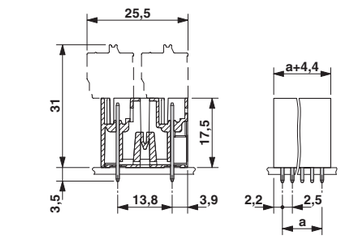
Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 2.5 mm, color: Green		
MCD 0,5/ 2-G1-2,5	**1894804**	50
MCD 0,5/ 3-G1-2,5	**1894817**	50
MCD 0,5/ 4-G1-2,5	**1894820**	50
MCD 0,5/ 5-G1-2,5	**1894833**	50
MCD 0,5/ 6-G1-2,5	**1894846**	50
MCD 0,5/ 7-G1-2,5	**1894859**	50
MCD 0,5/ 8-G1-2,5	**1894862**	50
MCD 0,5/ 9-G1-2,5	**1894875**	50
MCD 0,5/10-G1-2,5	**1894888**	50
MCD 0,5/11-G1-2,5	**1894891**	50
MCD 0,5/12-G1-2,5	**1894901**	50

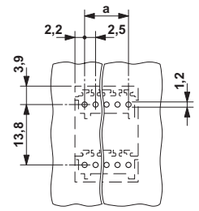


Double-level headers, Plug-in direction vertical to the PCB

Dimensional drawing



Drilling diagram

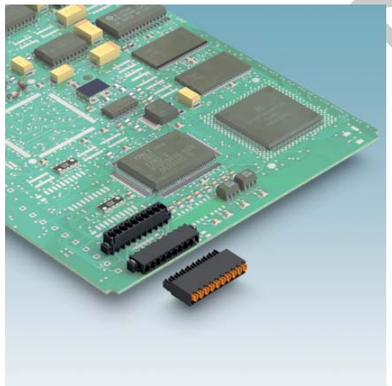


Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 2.5 mm, color: Green		
MCDV 0,5/ 2-G1-2,5	**1894914**	50
MCDV 0,5/ 3-G1-2,5	**1894927**	50
MCDV 0,5/ 4-G1-2,5	**1894930**	50
MCDV 0,5/ 5-G1-2,5	**1894943**	50
MCDV 0,5/ 6-G1-2,5	**1894956**	50
MCDV 0,5/ 7-G1-2,5	**1894969**	50
MCDV 0,5/ 8-G1-2,5	**1894972**	50
MCDV 0,5/ 9-G1-2,5	**1894985**	50
MCDV 0,5/10-G1-2,5	**1894998**	50
MCDV 0,5/11-G1-2,5	**1895007**	50
MCDV 0,5/12-G1-2,5	**1895010**	50

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Plugs with push-in spring connection



- Ultra-flat design height of just 5.4 mm
- Can be combined with MC(V) 0,5 headers with 2.54 mm pitch
- User-friendly actuation of the spring lever using a screwdriver
- Versions with fixed keying of the first position (C1) or the last position (C2)
- Touch connection for voltage testing using a 0.64 mm Ø test pin

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
Possible combinations for plug-in connectors can be found in COMBICON select at **www.phoenixcontact.net/products**.

[1]) Derating curves on request.

N

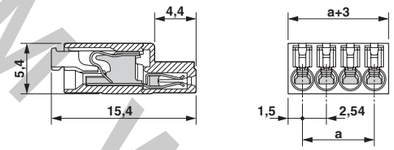


Flat plug, with gold-plated contact system

Accessories

For all types	Type	Page
	Marker cards **SK 2,54/2,8**	796
	Screwdriver **SZS 0,4 X 2,0 Order No. 1205202**	
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm² **CRIMPFOX 6 Order No. 1212034**	

Dimensional drawing



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	6[1]) / 0.5		
Rated insulation voltage for pollution degree 2	[V]	160		
Pitch	[mm]	2.54		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	0.14 - 0.5 / 0.14 - 0.5 / 26 - 20		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 0.34		
Stranded with ferrules with plastic sleeve	[mm²]	0.14 - 0.25		
Multi-conductor connection capacity (two conductors with the same cross section)				
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	32	160	160
Rated surge voltage	[kV]	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Stripping length	[mm]	7		
Type of insulation material / insulation material group		LCP / IIIa		
Inflammability class according to UL 94		V0		

Ordering data

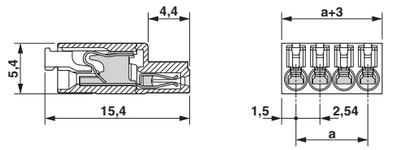
No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		2.54 mm pitch, color: black		
2	2.54	**FMC 0,5/ 2-ST-2,54**	**1821096**	200
3	5.08	**FMC 0,5/ 3-ST-2,54**	**1821106**	200
4	7.62	**FMC 0,5/ 4-ST-2,54**	**1821119**	200
5	10.16	**FMC 0,5/ 5-ST-2,54**	**1821122**	200
6	12.70	**FMC 0,5/ 6-ST-2,54**	**1821135**	200
7	15.24	**FMC 0,5/ 7-ST-2,54**	**1821148**	100
8	17.78	**FMC 0,5/ 8-ST-2,54**	**1821151**	100
9	20.32	**FMC 0,5/ 9-ST-2,54**	**1821164**	100
10	22.86	**FMC 0,5/10-ST-2,54**	**1821177**	100
11	25.40	**FMC 0,5/11-ST-2,54**	**1821180**	100
12	27.94	**FMC 0,5/12-ST-2,54**	**1821193**	100
13	30.48	**FMC 0,5/13-ST-2,54**	**1821203**	100
14	33.02	**FMC 0,5/14-ST-2,54**	**1821216**	100
15	35.56	**FMC 0,5/15-ST-2,54**	**1821229**	100
16	38.10	**FMC 0,5/16-ST-2,54**	**1821232**	100

N



Plug with gold-plated contact system, fixed keying of the first position (C1)

Dimensional drawing



Ordering data

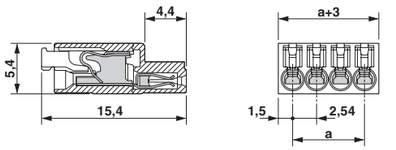
Type	Order No.	Pcs. / Pkt.
2.54 mm pitch, color: black		
FMC 0,5/ 2-ST-2,54 C1	**1706263**	200
FMC 0,5/ 3-ST-2,54 C1	**1706262**	200
FMC 0,5/ 4-ST-2,54 C1	**1706261**	200
FMC 0,5/ 5-ST-2,54 C1	**1706259**	200
FMC 0,5/ 6-ST-2,54 C1	**1706258**	200
FMC 0,5/ 7-ST-2,54 C1	**1706256**	100
FMC 0,5/ 8-ST-2,54 C1	**1706255**	100
FMC 0,5/ 9-ST-2,54 C1	**1706254**	100
FMC 0,5/10-ST-2,54 C1	**1706253**	100
FMC 0,5/11-ST-2,54 C1	**1706252**	100
FMC 0,5/12-ST-2,54 C1	**1706250**	100
FMC 0,5/13-ST-2,54 C1	**1706249**	100
FMC 0,5/14-ST-2,54 C1	**1706247**	100
FMC 0,5/15-ST-2,54 C1	**1706246**	100
FMC 0,5/16-ST-2,54 C1	**1706245**	100

N



Plug with gold-plated contact system, fixed keying of the last position (C2)

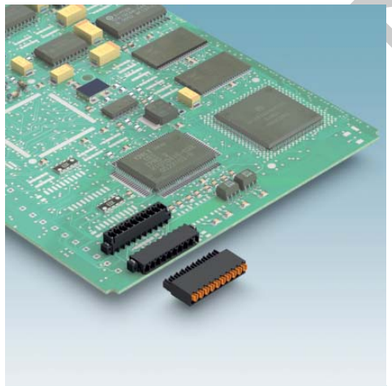
Dimensional drawing



Ordering data

Type	Order No.	Pcs. / Pkt.
2.54 mm pitch, color: black		
FMC 0,5/ 2-ST-2,54 C2	**1706243**	200
FMC 0,5/ 3-ST-2,54 C2	**1706242**	200
FMC 0,5/ 4-ST-2,54 C2	**1706241**	200
FMC 0,5/ 5-ST-2,54 C2	**1706240**	200
FMC 0,5/ 6-ST-2,54 C2	**1706239**	200
FMC 0,5/ 7-ST-2,54 C2	**1706238**	100
FMC 0,5/ 8-ST-2,54 C2	**1706237**	100
FMC 0,5/ 9-ST-2,54 C2	**1706236**	100
FMC 0,5/10-ST-2,54 C2	**1706234**	100
FMC 0,5/11-ST-2,54 C2	**1706233**	100
FMC 0,5/12-ST-2,54 C2	**1706232**	100
FMC 0,5/13-ST-2,54 C2	**1706230**	100
FMC 0,5/14-ST-2,54 C2	**1706229**	100
FMC 0,5/15-ST-2,54 C2	**1706227**	100
FMC 0,5/16-ST-2,54 C2	**1706226**	100

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- Versions for use in THR or SMD processes
- With anchor metal for secure hold on the PCB
- Can be combined with non-coded FMC 0,5...ST plugs

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
Possible combinations for plug-in connectors can be found in COMBICON select at **www.phoenixcontact.net/products**.

Pick and place pads for taped THR articles usually protrude beyond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of the pick and place pads can be found online at **www.phoenixcontact.net/products**.

Accessories

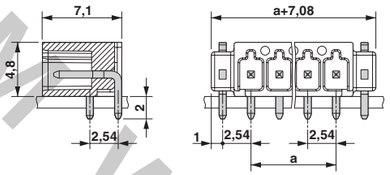
For all types	Type	Page
	Marker cards **SK 2,54/2,8**	796

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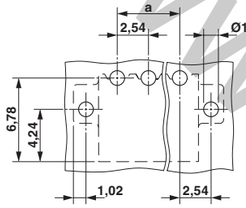


Header for THR applications, pin length 2.0 mm, gold-plated contact system, plug-in direction parallel to the PCB

Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current	[A]	6		
Rated insulation voltage for pollution degree 2	[V]	160		
Pitch	[mm]	2.54		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	32	160	160
Rated surge voltage	[kV]	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		LCP / IIIa		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.2 / 0,64 x 0,64 mm		

Ordering data

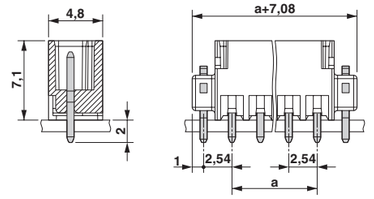
No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		2.54 mm pitch, color: black		
2	2.54	**MC 0,5/ 2-G-2,54 P20 THR R24**	**1821245**	465
3	5.08	**MC 0,5/ 3-G-2,54 P20 THR R24**	**1821258**	465
4	7.62	**MC 0,5/ 4-G-2,54 P20 THR R24**	**1821261**	465
5	10.16	**MC 0,5/ 5-G-2,54 P20 THR R24**	**1821274**	465
6	12.70	**MC 0,5/ 6-G-2,54 P20 THR R44**	**1821287**	465
7	15.24	**MC 0,5/ 7-G-2,54 P20 THR R44**	**1821290**	465
8	17.78	**MC 0,5/ 8-G-2,54 P20 THR R44**	**1821300**	465
9	20.32	**MC 0,5/ 9-G-2,54 P20 THR R44**	**1821313**	465
10	22.86	**MC 0,5/10-G-2,54 P20 THR R56**	**1821326**	465
11	25.40	**MC 0,5/11-G-2,54 P20 THR R56**	**1821339**	465
12	27.94	**MC 0,5/12-G-2,54 P20 THR R56**	**1821342**	465
13	30.48	**MC 0,5/13-G-2,54 P20 THR R56**	**1821355**	465
14	33.02	**MC 0,5/14-G-2,54 P20 THR R56**	**1821368**	465
15	35.56	**MC 0,5/15-G-2,54 P20 THR R56**	**1821371**	465
16	38.10	**MC 0,5/16-G-2,54 P20 THR R72**	**1821384**	465

N

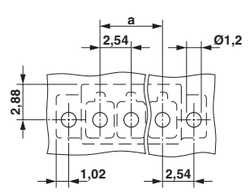


Header for THR applications, pin length 2.0 mm, gold-plated contact system, plug-in direction vertical to the PCB

Dimensional drawing



Drilling diagram



Ordering data

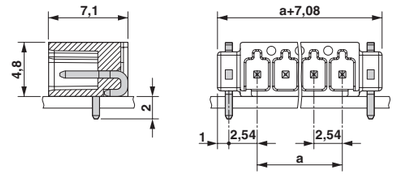
Type	Order No.	Pcs. / Pkt.
2.54 mm pitch, color: black		
MCV 0,5/ 2-G-2,54 P20 THR R24	**1821397**	315
MCV 0,5/ 3-G-2,54 P20 THR R24	**1821407**	315
MCV 0,5/ 4-G-2,54 P20 THR R24	**1821410**	315
MCV 0,5/ 5-G-2,54 P20 THR R24	**1821423**	315
MCV 0,5/ 6-G-2,54 P20 THR R44	**1821436**	315
MCV 0,5/ 7-G-2,54 P20 THR R44	**1821449**	315
MCV 0,5/ 8-G-2,54 P20 THR R44	**1821452**	315
MCV 0,5/ 9-G-2,54 P20 THR R44	**1821465**	315
MCV 0,5/10-G-2,54 P20 THR R56	**1821478**	315
MCV 0,5/11-G-2,54 P20 THR R56	**1821481**	315
MCV 0,5/12-G-2,54 P20 THR R56	**1821494**	315
MCV 0,5/13-G-2,54 P20 THR R56	**1821504**	315
MCV 0,5/14-G-2,54 P20 THR R56	**1821517**	315
MCV 0,5/15-G-2,54 P20 THR R56	**1821520**	315
MCV 0,5/16-G-2,54 P20 THR R72	**1821533**	315

N

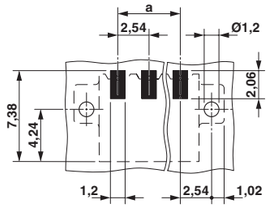


Header for SMD applications, gold-plated contact system, plug-in direction parallel to the PCB

Dimensional drawing



Drilling diagram



Ordering data

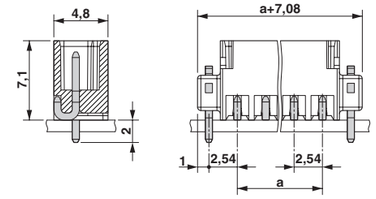
Type	Order No.	Pcs. / Pkt.
2.54 mm pitch, color: black		
MC 0,5/ 2-G-2,54 SMD R24	**1821698**	465
MC 0,5/ 3-G-2,54 SMD R24	**1821708**	465
MC 0,5/ 4-G-2,54 SMD R24	**1821711**	465
MC 0,5/ 5-G-2,54 SMD R24	**1821724**	465
MC 0,5/ 6-G-2,54 SMD R44	**1821737**	465
MC 0,5/ 7-G-2,54 SMD R44	**1821740**	465
MC 0,5/ 8-G-2,54 SMD R44	**1821753**	465
MC 0,5/ 9-G-2,54 SMD R44	**1821766**	465
MC 0,5/10-G-2,54 SMD R56	**1821779**	465
MC 0,5/11-G-2,54 SMD R56	**1821782**	465
MC 0,5/12-G-2,54 SMD R56	**1821795**	465
MC 0,5/13-G-2,54 SMD R56	**1821805**	465
MC 0,5/14-G-2,54 SMD R56	**1821818**	465
MC 0,5/15-G-2,54 SMD R56	**1821821**	465
MC 0,5/16-G-2,54 SMD R72	**1821834**	465

N

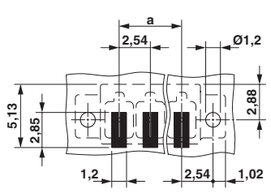


Header for SMD applications, gold-plated contact system, plug-in direction vertical to the PCB

Dimensional drawing



Drilling diagram

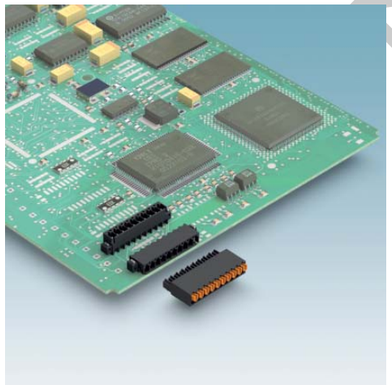


Ordering data

Type	Order No.	Pcs. / Pkt.
2.54 mm pitch, color: black		
MCV 0,5/ 2-G-2,54 SMD R24	**1821546**	315
MCV 0,5/ 3-G-2,54 SMD R24	**1821559**	315
MCV 0,5/ 4-G-2,54 SMD R24	**1821562**	315
MCV 0,5/ 5-G-2,54 SMD R24	**1821575**	315
MCV 0,5/ 6-G-2,54 SMD R44	**1821588**	315
MCV 0,5/ 7-G-2,54 SMD R44	**1821591**	315
MCV 0,5/ 8-G-2,54 SMD R44	**1821601**	315
MCV 0,5/ 9-G-2,54 SMD R44	**1821614**	315
MCV 0,5/10-G-2,54 SMD R56	**1821627**	315
MCV 0,5/11-G-2,54 SMD R56	**1821630**	315
MCV 0,5/12-G-2,54 SMD R56	**1821643**	315
MCV 0,5/13-G-2,54 SMD R56	**1821656**	315
MCV 0,5/14-G-2,54 SMD R56	**1821669**	315
MCV 0,5/15-G-2,54 SMD R56	**1821672**	315
MCV 0,5/16-G-2,54 SMD R72	**1821685**	315

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Headers for reflow/SMD processes



- Versions for use in THR or SMD processes
- With anchor metal for secure hold on the PCB
- Delivery form: tape-on-reel packing according to IEC 60286-3 for automated assembly
- With fixed keying of the first position (C1) or the last position (C2)
- Can be combined with keyed plugs FMC 0,5...ST... C1 or C2

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
Possible combinations for plug-in connectors can be found in COMBICON select at **www.phoenixcontact.net/products**.

Pick and place pads for taped THR articles usually protrude beyond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of the pick and place pads can be found online at **www.phoenixcontact.net/products**.

Accessories

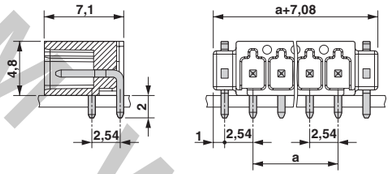
For all types	Type	Page
	Marker cards **SK 2,54/2,8**	796

N

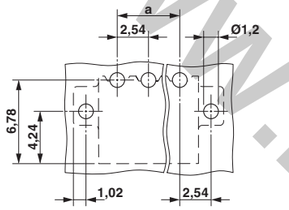


Keyed header for THR applications, pin length 2.0 mm, gold-plated contact system, plug-in direction parallel to the PCB

Dimensional drawing



Drilling diagram

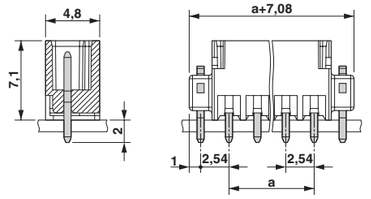


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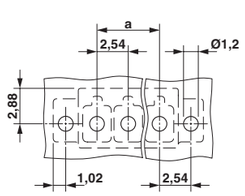


Keyed header for THR applications, pin length 2.0 mm, gold-plated contact system, plug-in direction vertical to the PCB

Dimensional drawing



Drilling diagram

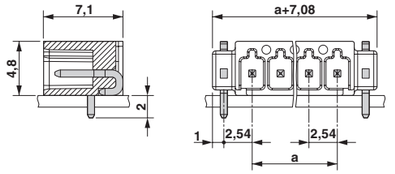


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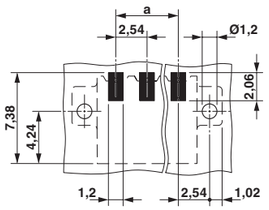


Keyed header for SMD applications, gold-plated contact system, plug-in direction parallel to the PCB

Dimensional drawing



Drilling diagram

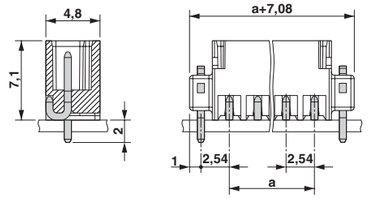


N

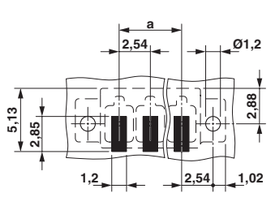


Keyed header for SMD applications, gold-plated contact system, plug-in direction vertical to the PCB

Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current	[A]	6		
Rated insulation voltage for pollution degree 2	[V]	160		
Pitch	[mm]	2.54		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	32	160	160
Rated surge voltage	[kV]	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		LCP / IIIa		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.2 / 0,64 x 0,64 mm		

Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		2.54 mm pitch, color: black		
2	2.54	MC 0,5/ 2-G-2,54 P20THRR24C1	1706225	465
3	5.08	MC 0,5/ 3-G-2,54 P20THRR24C1	1706224	465
4	7.62	MC 0,5/ 4-G-2,54 P20THRR24C1	1706223	465
5	10.16	MC 0,5/ 5-G-2,54 P20THRR24C1	1706221	465
6	12.70	MC 0,5/ 6-G-2,54 P20THRR44C1	1706220	465
7	15.24	MC 0,5/ 7-G-2,54 P20THRR44C1	1706218	465
8	17.78	MC 0,5/ 8-G-2,54 P20THRR44C1	1706217	465
9	20.32	MC 0,5/ 9-G-2,54 P20THRR44C1	1706216	465
10	22.86	MC 0,5/10-G-2,54 P20THRR44C1	1706214	465
11	25.40	MC 0,5/11-G-2,54 P20THRR56C1	1706213	465
12	27.94	MC 0,5/12-G-2,54 P20THRR56C1	1706212	465
13	30.48	MC 0,5/13-G-2,54 P20THRR56C1	1706211	465
14	33.02	MC 0,5/14-G-2,54 P20THRR56C1	1706210	465
15	35.56	MC 0,5/15-G-2,54 P20THRR56C1	1706209	465
16	38.10	MC 0,5/16-G-2,54 P20THRR72C1	1706208	465
		2.54 mm pitch, color: black		
2	2.54	MC 0,5/ 2-G-2,54 P20THRR24C2	1706207	465
3	5.08	MC 0,5/ 3-G-2,54 P20THRR24C2	1706205	465
4	7.62	MC 0,5/ 4-G-2,54 P20THRR24C2	1706204	465
5	10.16	MC 0,5/ 5-G-2,54 P20THRR24C2	1706203	465
6	12.70	MC 0,5/ 6-G-2,54 P20THRR44C2	1706201	465
7	15.24	MC 0,5/ 7-G-2,54 P20THRR44C2	1706200	465
8	17.78	MC 0,5/ 8-G-2,54 P20THRR44C2	1706199	465
9	20.32	MC 0,5/ 9-G-2,54 P20THRR44C2	1706198	465
10	22.86	MC 0,5/10-G-2,54 P20THRR44C2	1706197	465
11	25.40	MC 0,5/11-G-2,54 P20THRR56C2	1706195	465
12	27.94	MC 0,5/12-G-2,54 P20THRR56C2	1706194	465
13	30.48	MC 0,5/13-G-2,54 P20THRR56C2	1706193	465
14	33.02	MC 0,5/14-G-2,54 P20THRR56C2	1706191	465
15	35.56	MC 0,5/15-G-2,54 P20THRR56C2	1706190	465
16	38.10	MC 0,5/16-G-2,54 P20THRR72C2	1706188	465

Ordering data

Type	Order No.	Pcs. / Pkt.
2.54 mm pitch, color: black		
MCV 0,5/ 2-G-2,54 P20THRR24C1	1706187	315
MCV 0,5/ 3-G-2,54 P20THRR24C1	1706186	315
MCV 0,5/ 4-G-2,54 P20THRR24C1	1706185	315
MCV 0,5/ 5-G-2,54 P20THRR44C1	1706184	315
MCV 0,5/ 6-G-2,54 P20THRR44C1	1706182	315
MCV 0,5/ 7-G-2,54 P20THRR44C1	1706181	315
MCV 0,5/ 8-G-2,54 P20THRR44C1	1706180	315
MCV 0,5/ 9-G-2,54 P20THRR56C1	1706179	315
MCV 0,5/10-G-2,54 P20THRR56C1	1706178	315
MCV 0,5/11-G-2,54 P20THRR56C1	1706177	315
MCV 0,5/12-G-2,54 P20THRR56C1	1706175	315
MCV 0,5/13-G-2,54 P20THRR56C1	1706174	315
MCV 0,5/14-G-2,54 P20THRR72C1	1706173	315
MCV 0,5/15-G-2,54 P20THRR72C1	1706172	315
MCV 0,5/16-G-2,54 P20THRR72C1	1706171	315
2.54 mm pitch, color: black		
MCV 0,5/ 2-G-2,54 P20THRR24C2	1706169	315
MCV 0,5/ 3-G-2,54 P20THRR24C2	1706168	315
MCV 0,5/ 4-G-2,54 P20THRR24C2	1706166	315
MCV 0,5/ 5-G-2,54 P20THRR44C2	1706165	315
MCV 0,5/ 6-G-2,54 P20THRR44C2	1706164	315
MCV 0,5/ 7-G-2,54 P20THRR44C2	1706162	315
MCV 0,5/ 8-G-2,54 P20THRR44C2	1706161	315
MCV 0,5/ 9-G-2,54 P20THRR56C2	1706160	315
MCV 0,5/10-G-2,54 P20THRR56C2	1706159	315
MCV 0,5/11-G-2,54 P20THRR56C2	1706158	315
MCV 0,5/12-G-2,54 P20THRR56C2	1706157	315
MCV 0,5/13-G-2,54 P20THRR56C2	1706156	315
MCV 0,5/14-G-2,54 P20THRR72C2	1706155	315
MCV 0,5/15-G-2,54 P20THRR72C2	1706153	315
MCV 0,5/16-G-2,54 P20THRR72C2	1706152	315

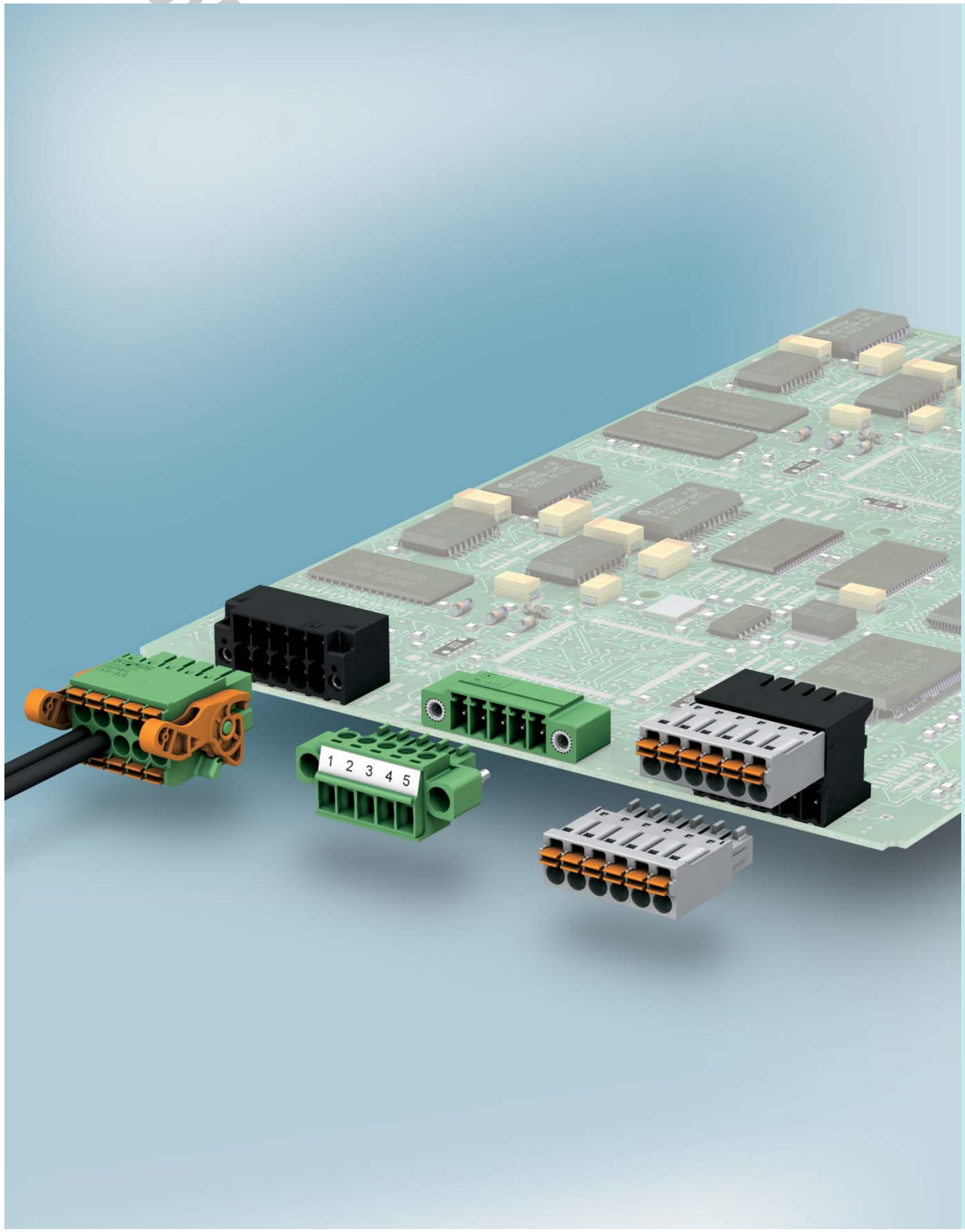
Ordering data

Type	Order No.	Pcs. / Pkt.
2.54 mm pitch, color: black		
MC 0,5/ 2-G-2,54 SMDR24C1	1706151	465
MC 0,5/ 3-G-2,54 SMDR24C1	1706149	465
MC 0,5/ 4-G-2,54 SMDR24C1	1706148	465
MC 0,5/ 5-G-2,54 SMDR44C1	1706146	465
MC 0,5/ 6-G-2,54 SMDR44C1	1706145	465
MC 0,5/ 7-G-2,54 SMDR44C1	1706144	465
MC 0,5/ 8-G-2,54 SMDR44C1	1706143	465
MC 0,5/ 9-G-2,54 SMDR44C1	1706142	465
MC 0,5/10-G-2,54 SMDR44C1	1706140	465
MC 0,5/11-G-2,54 SMDR56C1	1706139	465
MC 0,5/12-G-2,54 SMDR56C1	1706137	465
MC 0,5/13-G-2,54 SMDR56C1	1706136	465
MC 0,5/14-G-2,54 SMDR56C1	1706135	465
MC 0,5/15-G-2,54 SMDR56C1	1706133	465
MC 0,5/16-G-2,54 SMDR72C1	1706132	465
2.54 mm pitch, color: black		
MC 0,5/ 2-G-2,54 SMDR24C2	1706131	465
MC 0,5/ 3-G-2,54 SMDR24C2	1706130	465
MC 0,5/ 4-G-2,54 SMDR24C2	1706129	465
MC 0,5/ 5-G-2,54 SMDR24C2	1706128	465
MC 0,5/ 6-G-2,54 SMDR44C2	1706127	465
MC 0,5/ 7-G-2,54 SMDR44C2	1706126	465
MC 0,5/ 8-G-2,54 SMDR44C2	1706124	465
MC 0,5/ 9-G-2,54 SMDR44C2	1706123	465
MC 0,5/10-G-2,54 SMDR44C2	1706122	465
MC 0,5/11-G-2,54 SMDR56C2	1706120	465
MC 0,5/12-G-2,54 SMDR56C2	1706119	465
MC 0,5/13-G-2,54 SMDR56C2	1706117	465
MC 0,5/14-G-2,54 SMDR56C2	1706116	465
MC 0,5/15-G-2,54 SMDR56C2	1706115	465
MC 0,5/16-G-2,54 SMDR72C2	1706114	465

Ordering data

Type	Order No.	Pcs. / Pkt.
2.54 mm pitch, color: black		
MCV 0,5/ 2-G-2,54 SMDR24C1	1706113	315
MCV 0,5/ 3-G-2,54 SMDR24C1	1706111	315
MCV 0,5/ 4-G-2,54 SMDR24C1	1706110	315
MCV 0,5/ 5-G-2,54 SMDR44C1	1706108	315
MCV 0,5/ 6-G-2,54 SMDR44C1	1706107	315
MCV 0,5/ 7-G-2,54 SMDR44C1	1706106	315
MCV 0,5/ 8-G-2,54 SMDR44C1	1706104	315
MCV 0,5/ 9-G-2,54 SMDR56C1	1706103	315
MCV 0,5/10-G-2,54 SMDR56C1	1706102	315
MCV 0,5/11-G-2,54 SMDR56C1	1706101	315
MCV 0,5/12-G-2,54 SMDR56C1	1706100	315
MCV 0,5/13-G-2,54 SMDR56C1	1706098	315
MCV 0,5/14-G-2,54 SMDR72C1	1706097	315
MCV 0,5/15-G-2,54 SMDR72C1	1706096	315
MCV 0,5/16-G-2,54 SMDR72C1	1706094	315
2.54 mm pitch, color: black		
MCV 0,5/ 2-G-2,54 SMDR24C2	1706093	315
MCV 0,5/ 3-G-2,54 SMDR24C2	1706092	315
MCV 0,5/ 4-G-2,54 SMDR24C2	1706091	315
MCV 0,5/ 5-G-2,54 SMDR44C2	1706090	315
MCV 0,5/ 6-G-2,54 SMDR44C2	1706089	315
MCV 0,5/ 7-G-2,54 SMDR44C2	1706088	315
MCV 0,5/ 8-G-2,54 SMDR44C2	1706087	315
MCV 0,5/ 9-G-2,54 SMDR56C2	1706085	315
MCV 0,5/10-G-2,54 SMDR56C2	1706084	315
MCV 0,5/11-G-2,54 SMDR56C2	1706083	315
MCV 0,5/12-G-2,54 SMDR56C2	1706081	315
MCV 0,5/13-G-2,54 SMDR56C2	1706080	315
MCV 0,5/14-G-2,54 SMDR72C2	1706078	315
MCV 0,5/15-G-2,54 SMDR72C2	1706077	315
MCV 0,5/16-G-2,54 SMDR72C2	1706076	315

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Mini plug-in connectors with 3.5/3.81 and 5.08 mm pitch

The trend towards the miniaturization of modules and devices continues. In terms of device development, an ever increasing number of wiring points on devices have to be taken into consideration.

The plug-in connectors in the COMBICON Mini series follow this trend with space-saving 3.5/3.81 mm and 5.08 mm pitch. Thanks to their compact dimensions, they offer convenient conductor connection up to 1.5 mm².

In addition to proven screw connection, the product range includes innovative push-in spring connection, fast insulation displacement connection technology, and crimp connections for assembly.

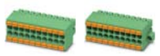
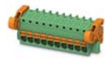
A wide choice of different designs are available for plug-in combinations.

The header range offers horizontal, vertical or double-level versions for the wave soldering and SMT process. Through hole reflow (THR) headers, which are made from high-temperature-resistant material, are available in tape-on-reel packing, enabling fully automated handling in the SMT process.

COMBICON control mini cross-reference list	**182**
MINI-COMBICON plug-in connectors, 3.5/3.81 and 5.08 mm pitch	**184**
Double-row plug with push-in spring connection	**184**
Double row headers for reflow processes	**186**
Plugs with screw connection	**190**
Inverted plugs with screw connection	**196**
Plug with push-in spring connection	**198**
Plugs with displacement connection	**204**
Plugs with crimp connection	**206**
Single-level headers for reflow processes	**208**
Double-level headers for reflow processes	**218**
Single-level headers for press-in technology	**222**
Single-level headers for wave soldering processes	**224**
Orthogonal headers for wave soldering processes	**230**
Double-level headers for wave soldering processes	**234**
Inverted headers for wave soldering processes	**238**
Headers for panel feed-throughs and direct mounting	**240**
Cable housing	**242**
Fiber optics for headers	**244**
Plugs with screw connection with 5.08 mm pitch	**246**
Headers for wave soldering processes with 5.08 mm pitch	**248**
Special designs	
SUBCON headers with MINI COMBICON pin connector pattern	**251**

Mini plug-in connectors with 3.5/3.81 and 5.08 mm pitch

COMBICON control mini cross-reference list

MINI COMBICON plugs	Type	Pitch	MINI COMBICON headers DMC...G(F) Page 186 3.5	IMC...ST(GF) Page 196 3.81	EMC(V)...G MC(V)..G (THR) Page 222 224 / 208 3.5 3.81	EMC(V)...GF MC(V)..GF(THR) Page 223 208 3.5 3.81	SMC...G(F) Page 228 3.81	MC ..GF-LR MCV ...GF-LR Page 225 3.5 3.81	MCDN...G1 MCDNV...G1 Page 218 220 3.5 3.81	MC(V)...G RN MCDN(V)...G1 RN Page 225 219 3.5	MCO...G Page 230 3.81	MCO...G1 Page 232 3.5	MCD(V)...G Page 234 3.81	MCD(V)...GF Page 235 3.81	MCD(V)...G1 Page 235 3.81	MCDV...G1F Page 235 3.81	DFK-MC...GF Page 240 3.81	MCVU...GFD Page 241 3.81	MC...G MCV...G Page 248 5.08	MC...GF MCV...GF Page 249 5.08
	DFMC...ST Page 184 DFMC...STF(...-LR) Page 185	3.5 3.5	• •																	
	MC...ST Page 190 MC...STF Page 191	3.5 3.81 3.5 3.81		•	• •	• •	• •	• •			•	•	•	•						
	MC...ST-LR Page 191	3.5 3.81						• •												
	FRONT-MC...ST Page 194 FRONT-MC...STF Page 195	3.81		•	•		•				•		•	•	•					
	MCVR(W)...ST Page 192 MCVR(W)...STF Page 193	3.5 3.81 3.5 3.81		•	• •	• •	•	•			•		•	•	•					
	FK-MCP...ST-LR Page 199	3.5 3.81						• •												
	FK-MCP...ST Page 198 FK-MCP...STF Page 199	3.5 3.81 3.5 3.81		•	• •	• •	•	• •			•	•	•	•	•	•	•	•		
	FMC...ST Page 200 FMC...STF Page 201	3.5 3.81 3.5 3.81		•	• •	• •	•	• •	• •		•	•	•	•	•	•	•	•		
	FMC...ST...RF Page 201	3.5								•										
	FMCD...ST Page 201	3.5							•											
	TFMC...ST Page 202 TFMC...STF Page 202	3.5 3.5			•	• •		• •												
	QC...ST Page 204 QC...STF Page 205	3.81 3.81		•	• •	• •	•	•			•		•	•				•		
	MCC...STZ Page 206 MCC...STZF Page 207	3.81 3.81		•	• •	• •	•	•			•		•	•	•					
	IMC...G Page 238 IMCV...G Page 239	3.81 3.81		•	• •		•	• •			•		•		•					
	MC...ST(1) Page 246 MC...ST(1)F Page 247	5.08 5.08																	•	•

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Double-row plug with push-in spring connection



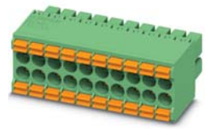
- Fast conductor connection through Push-in direct plug-in technology
- Extremely flat design, 13.3 mm
- Combination with very flat DMC headers
- Conductor cross section up to 1.5 mm²
- Versions with and without screw flanges and lock & release levers
- Lock & release levers lock the connector to the header and function as a release tool
- Higher numbers of positions up to 20-pos. can be found at: **www.phoenixcontact.net/products**

Notes:

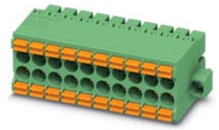
In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 182.

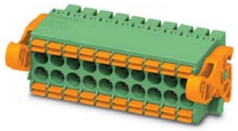
The maximum torque for the screw flange is 0.2 Nm.



Two-row connector with Push-in connection



With screw flange

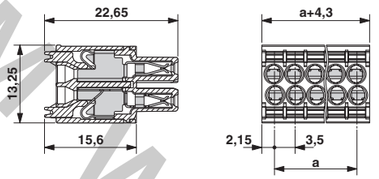


With lock & release levers for locking and releasing

Accessories

For all types	Type	Page
	Marker cards **SK 3,5/2,8**	797
	Keying profile **CP-DMC-THR NAT** **Order No. 1790647**	
	Screwdriver **SZS 0,4 x 2,5** **Order No. 1205037**	
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm² **CRIMPFOX 6** **Order No. 1212034**	

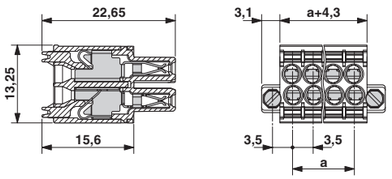
Dimensional drawing



Note derating curves

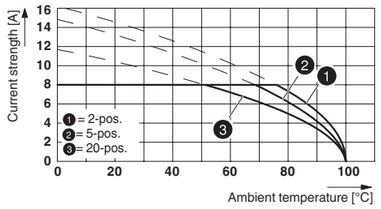
Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 1.5 mm²
Reduction factor = 0.8
Number of positions = see diagram

Dimensional drawing

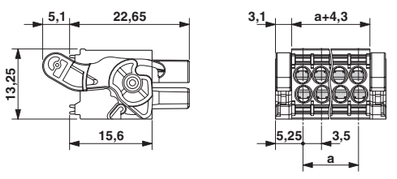


Representative derating curve

Type: DFMC 1,5/...-ST-3,5 with DMC 1,5/...-G1-3,5 P20 THR



Dimensional drawing



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	8 / 1.5		
Rated insulation voltage for pollution degree 2	[V]	160		
Pitch	[mm]	3.5		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 1.5 / 0.2 - 1.5 / 24 - 16		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 1.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 0.75		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	- / -		
Stranded with ferrules without plastic sleeve	[mm²]	-		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	-		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	160	160	250
Rated surge voltage	[kV]	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	150	-	-
Nominal current	[A]	8	-	-
Connection capacity AWG	AWG	16 - 24	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Stripping length	[mm]	10		
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		

Ordering data

No. of pos.	Dim. a [mm]
2	3.50
3	7.00
4	10.50
5	14.00
6	17.50
7	21.00
8	24.50
9	28.00
10	31.50
11	35.00
12	38.50
13	42.00
14	45.50
15	49.00
16	52.50

Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
DFMC 1,5/ 2-ST-3,5	**1790108**	50
DFMC 1,5/ 3-ST-3,5	**1790111**	50
DFMC 1,5/ 4-ST-3,5	**1790124**	50
DFMC 1,5/ 5-ST-3,5	**1790137**	50
DFMC 1,5/ 6-ST-3,5	**1790140**	50
DFMC 1,5/ 7-ST-3,5	**1790153**	50
DFMC 1,5/ 8-ST-3,5	**1790166**	50
DFMC 1,5/ 9-ST-3,5	**1790179**	50
DFMC 1,5/10-ST-3,5	**1790182**	50
DFMC 1,5/11-ST-3,5	**1790195**	50
DFMC 1,5/12-ST-3,5	**1790205**	50
DFMC 1,5/13-ST-3,5	**1790218**	50
DFMC 1,5/14-ST-3,5	**1790221**	50
DFMC 1,5/15-ST-3,5	**1790234**	50
DFMC 1,5/16-ST-3,5	**1790247**	50

Ordering data

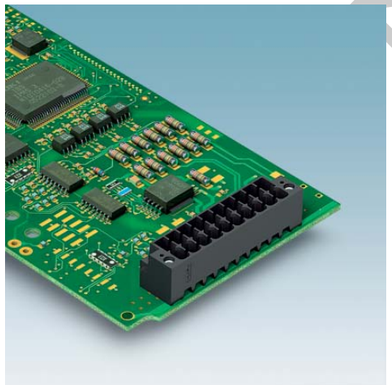
Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
DFMC 1,5/ 2-STF-3,5	**1790292**	50
DFMC 1,5/ 3-STF-3,5	**1790302**	50
DFMC 1,5/ 4-STF-3,5	**1790315**	50
DFMC 1,5/ 5-STF-3,5	**1790328**	50
DFMC 1,5/ 6-STF-3,5	**1790331**	50
DFMC 1,5/ 7-STF-3,5	**1790344**	50
DFMC 1,5/ 8-STF-3,5	**1790357**	50
DFMC 1,5/ 9-STF-3,5	**1790360**	50
DFMC 1,5/10-STF-3,5	**1790373**	50
DFMC 1,5/11-STF-3,5	**1790386**	50
DFMC 1,5/12-STF-3,5	**1790399**	50
DFMC 1,5/13-STF-3,5	**1790409**	50
DFMC 1,5/14-STF-3,5	**1790412**	50
DFMC 1,5/15-STF-3,5	**1790425**	50
DFMC 1,5/16-STF-3,5	**1790438**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
DFMC 1,5/ 2-ST-3,5-LR	**1790483**	50
DFMC 1,5/ 3-ST-3,5-LR	**1790496**	50
DFMC 1,5/ 4-ST-3,5-LR	**1790506**	50
DFMC 1,5/ 5-ST-3,5-LR	**1790519**	50
DFMC 1,5/ 6-ST-3,5-LR	**1790522**	50
DFMC 1,5/ 7-ST-3,5-LR	**1790535**	50
DFMC 1,5/ 8-ST-3,5-LR	**1790548**	50
DFMC 1,5/ 9-ST-3,5-LR	**1790551**	50
DFMC 1,5/10-ST-3,5-LR	**1790564**	50
DFMC 1,5/11-ST-3,5-LR	**1790577**	50
DFMC 1,5/12-ST-3,5-LR	**1790580**	50
DFMC 1,5/13-ST-3,5-LR	**1790593**	50
DFMC 1,5/14-ST-3,5-LR	**1790603**	50
DFMC 1,5/15-ST-3,5-LR	**1790616**	50
DFMC 1,5/16-ST-3,5-LR	**1790629**	50

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Two-row headers for reflow processes



- Extremely small THR two-row headers for SMT and wave soldering processes
- At 8 mm, the distance from the edge of the PCB to the first row of holes is compatible with MC headers
- Headers with flange can be combined with screw-type lock & release lever connectors
- Type of packaging: bulk
- Higher numbers of positions up to 20-pos. can be found at: **www.phoenixcontact.net/products**

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 182.

Panel cutout dimensions for DMC 1,5 and DMCV 1,5 appear on page 840.

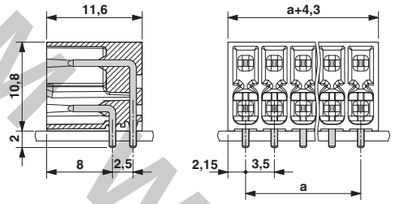
Accessories

For all types	Type	Page
	Keying profile **CP-DMC-THR NAT Order No. 1790647**	
	Marker cards **SK 3,5/2,8**	797

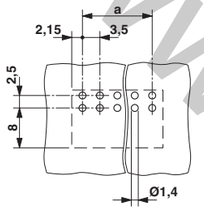


Plug-in direction parallel to the PCB

Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current	[A]	8		
Rated insulation voltage for pollution degree 2	[V]	160		
Pitch	[mm]	3.5		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	160	160	250
Rated surge voltage	[kV]	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	150	-	-
Nominal current	[A]	8	-	-
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		LCP / IIIa		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.4 / 0,8 x 0,8 mm		

No. of pos.	Dim. a [mm]
2	3.50
3	7.00
4	10.50
5	14.00
6	17.50
7	21.00
8	24.50
9	28.00
10	31.50
11	35.00
12	38.50
13	42.00
14	45.50
15	49.00
16	52.50

Ordering data

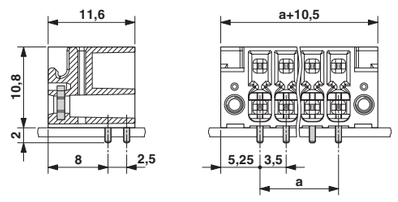
Type	Order No.	Pcs. / Pkt.
Pitch 3.5 mm, color: Black		
DMC 1,5/ 2-G1-3,5 P20THR	1786837	50
DMC 1,5/ 3-G1-3,5 P20THR	1786840	50
DMC 1,5/ 4-G1-3,5 P20THR	1786853	50
DMC 1,5/ 5-G1-3,5 P20THR	1786866	50
DMC 1,5/ 6-G1-3,5 P20THR	1786879	50
DMC 1,5/ 7-G1-3,5 P20THR	1786882	50
DMC 1,5/ 8-G1-3,5 P20THR	1786895	50
DMC 1,5/ 9-G1-3,5 P20THR	1786905	50
DMC 1,5/10-G1-3,5 P20THR	1786918	50
DMC 1,5/11-G1-3,5 P20THR	1786921	50
DMC 1,5/12-G1-3,5 P20THR	1786934	50
DMC 1,5/13-G1-3,5 P20THR	1786947	50
DMC 1,5/14-G1-3,5 P20THR	1786950	50
DMC 1,5/15-G1-3,5 P20THR	1786963	50
DMC 1,5/16-G1-3,5 P20THR	1786976	50

Mini plug-in connectors with 3.5/3.81 and 5.08 mm pitch
MINI COMBICON plug-in connectors, pitches 3.5 or 3.81 and 5.08 mm

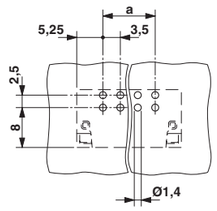


With lock & release mechanism and threaded flange, plug-in direction parallel to the PCB

Dimensional drawing



Drilling diagram



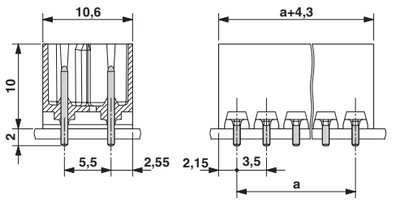
Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 3.5 mm, color: Black		
DMC 1,5/ 2-G1F-3,5-LR P20THR	1787014	50
DMC 1,5/ 3-G1F-3,5-LR P20THR	1787027	50
DMC 1,5/ 4-G1F-3,5-LR P20THR	1787030	50
DMC 1,5/ 5-G1F-3,5-LR P20THR	1787043	50
DMC 1,5/ 6-G1F-3,5-LR P20THR	1787056	50
DMC 1,5/ 7-G1F-3,5-LR P20THR	1787069	50
DMC 1,5/ 8-G1F-3,5-LR P20THR	1787072	50
DMC 1,5/ 9-G1F-3,5-LR P20THR	1787085	50
DMC 1,5/10-G1F-3,5-LR P20THR	1787098	50
DMC 1,5/11-G1F-3,5-LR P20THR	1787108	50
DMC 1,5/12-G1F-3,5-LR P20THR	1787111	50
DMC 1,5/13-G1F-3,5-LR P20THR	1787124	50
DMC 1,5/14-G1F-3,5-LR P20THR	1787137	50
DMC 1,5/15-G1F-3,5-LR P20THR	1787140	50
DMC 1,5/16-G1F-3,5-LR P20THR	1787153	50

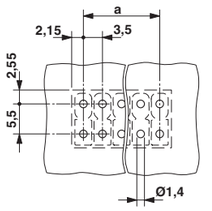


Plug-in direction vertical to the PCB

Dimensional drawing



Drilling diagram



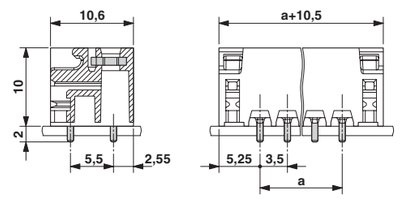
Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 3.5 mm, color: Black		
DMCV 1,5/ 2-G1-3,5 P20THR	1787205	50
DMCV 1,5/ 3-G1-3,5 P20THR	1787218	50
DMCV 1,5/ 4-G1-3,5 P20THR	1787221	50
DMCV 1,5/ 5-G1-3,5 P20THR	1787234	50
DMCV 1,5/ 6-G1-3,5 P20THR	1787247	50
DMCV 1,5/ 7-G1-3,5 P20THR	1787250	50
DMCV 1,5/ 8-G1-3,5 P20THR	1787263	50
DMCV 1,5/ 9-G1-3,5 P20THR	1787276	50
DMCV 1,5/10-G1-3,5 P20THR	1787289	50
DMCV 1,5/11-G1-3,5 P20THR	1787292	50
DMCV 1,5/12-G1-3,5 P20THR	1787302	50
DMCV 1,5/13-G1-3,5 P20THR	1787315	50
DMCV 1,5/14-G1-3,5 P20THR	1787328	50
DMCV 1,5/15-G1-3,5 P20THR	1787331	50
DMCV 1,5/16-G1-3,5 P20THR	1787344	50

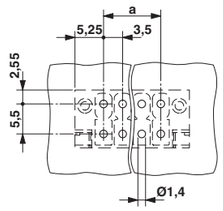


With lock & release mechanism and threaded flange, plug-in direction vertical to the PCB

Dimensional drawing



Drilling diagram

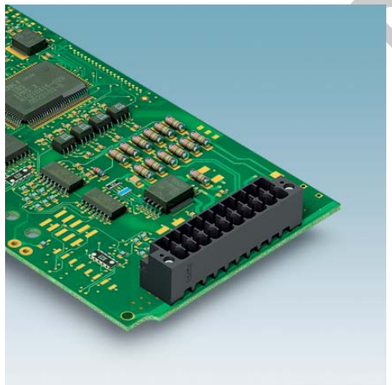


Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 3.5 mm, color: Black		
DMCV 1,5/ 2-G1F-3,5-LR P20THR	1787399	50
DMCV 1,5/ 3-G1F-3,5-LR P20THR	1787409	50
DMCV 1,5/ 4-G1F-3,5-LR P20THR	1787412	50
DMCV 1,5/ 5-G1F-3,5-LR P20THR	1787425	50
DMCV 1,5/ 6-G1F-3,5-LR P20THR	1787438	50
DMCV 1,5/ 7-G1F-3,5-LR P20THR	1787441	50
DMCV 1,5/ 8-G1F-3,5-LR P20THR	1787454	50
DMCV 1,5/ 9-G1F-3,5-LR P20THR	1787467	50
DMCV 1,5/10-G1F-3,5-LR P20THR	1787470	50
DMCV 1,5/11-G1F-3,5-LR P20THR	1787483	50
DMCV 1,5/12-G1F-3,5-LR P20THR	1787496	50
DMCV 1,5/13-G1F-3,5-LR P20THR	1787506	50
DMCV 1,5/14-G1F-3,5-LR P20THR	1787519	50
DMCV 1,5/15-G1F-3,5-LR P20THR	1787522	50
DMCV 1,5/16-G1F-3,5-LR P20THR	1787535	50

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Two-row headers for reflow processes



- Tape-on-reel packing according to IEC 60286-3 for automated mounting
- Reel diameter 330 mm
- Tape width corresponds to order designation
- Extremely small THR two-row headers for SMT and wave soldering processes
- At 8 mm, the distance from the edge of the PCB to the first row of holes is compatible with MC headers
- Headers with flange can be combined with screw-type lock & release lever connectors

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 182.

Panel cutout dimensions for DMC 1,5 and DMCV 1,5 appear on page 840.

Pick and place pads for taped THR articles usually protrude beyond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of tape reels and place pads can be found online at **www.phoenixcontact.net/products**.

Accessories

For all types	Type	Page
	Keying profile **CP-DMC-THR NAT** **Order No. 1790647**	
	Marker cards **SK 3,5/2,8**	797



N

Plug-in direction parallel to the PCB



N

With lock & release mechanism and threaded flange, plug-in direction parallel to the PCB



N

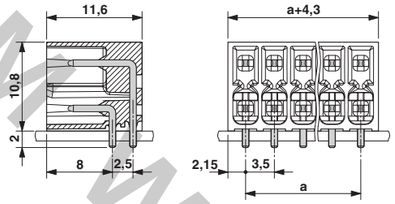
Plug-in direction vertical to the PCB



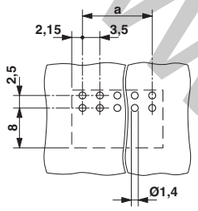
N

With lock & release mechanism and threaded flange, plug-in direction vertical to the PCB

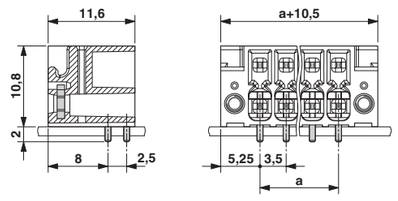
Dimensional drawing



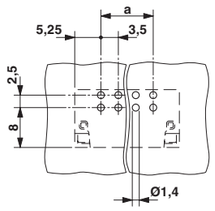
Drilling diagram



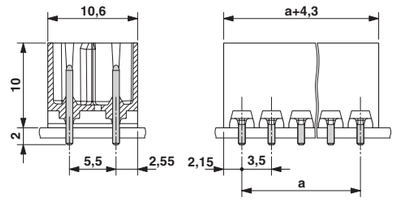
Dimensional drawing



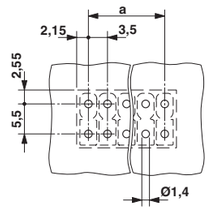
Drilling diagram



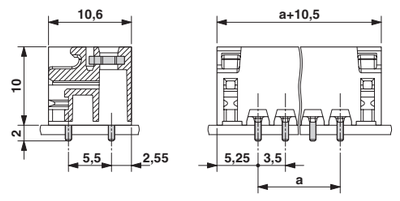
Dimensional drawing



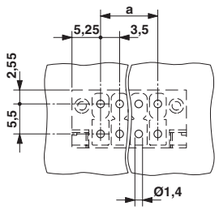
Drilling diagram



Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current	[A]	8		
Rated insulation voltage for pollution degree 2	[V]	160		
Pitch	[mm]	3.5		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	160	160	250
Rated surge voltage	[kV]	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	150	-	-
Nominal current	[A]	8	-	-
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		LCP / IIIa		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.4 / 0,8 x 0,8 mm		

No. of pos.	Dim. a [mm]
2	3.50
3	7.00
4	10.50
5	14.00
6	17.50
7	21.00
8	24.50
9	28.00
10	31.50
11	35.00
12	38.50
13	42.00
14	45.50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 3.5 mm, color: Black		
DMC 1,5/ 2-G1-3,5 P20THR R24-1	1816137	180
DMC 1,5/ 3-G1-3,5 P20THR R24-2	1816140	180
DMC 1,5/ 4-G1-3,5 P20THR R44	1816153	180
DMC 1,5/ 5-G1-3,5 P20THR R44	1816166	180
DMC 1,5/ 6-G1-3,5 P20THR R44	1818478	180
DMC 1,5/ 7-G1-3,5 P20THR R56	1818481	180
DMC 1,5/ 8-G1-3,5 P20THR R56	1816179	180
DMC 1,5/ 9-G1-3,5 P20THR R56	1818494	180
DMC 1,5/10-G1-3,5 P20THR R56	1816182	180
DMC 1,5/11-G1-3,5 P20THR R72	1706049	180
DMC 1,5/12-G1-3,5 P20THR R72	1706051	180
DMC 1,5/13-G1-3,5 P20THR R72	1706052	180
DMC 1,5/14-G1-3,5 P20THR R72	1706054	180

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 3.5 mm, color: Black		
DMC 1,5/ 2-G1F-3,5-LRP20THRR44	1818504	180
DMC 1,5/ 3-G1F-3,5-LRP20THRR44	1818517	180
DMC 1,5/ 4-G1F-3,5-LRP20THRR44	1818520	180
DMC 1,5/ 5-G1F-3,5-LRP20THRR56	1818533	180
DMC 1,5/ 6-G1F-3,5-LRP20THRR56	1818546	180
DMC 1,5/ 7-G1F-3,5-LRP20THRR56	1818559	180
DMC 1,5/ 8-G1F-3,5-LRP20THRR56	1818562	180
DMC 1,5/ 9-G1F-3,5-LRP20THRR72	1706055	180
DMC 1,5/10-G1F-3,5-LRP20THRR72	1706064	180
DMC 1,5/11-G1F-3,5-LRP20THRR72	1706065	180
DMC 1,5/12-G1F-3,5-LRP20THRR72	1706067	180

Ordering data

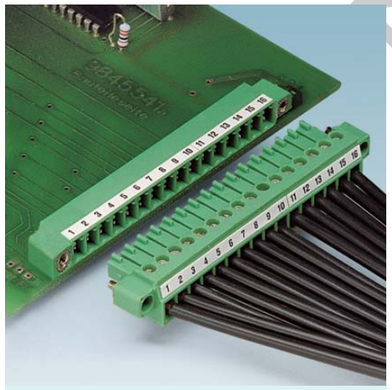
Type	Order No.	Pcs. / Pkt.
Pitch 3.5 mm, color: Black		
DMCV 1,5/ 2-G1-3,5 P20THR R24	1818575	220
DMCV 1,5/ 3-G1-3,5 P20THR R24	1818588	220
DMCV 1,5/ 4-G1-3,5 P20THR R44	1818591	220
DMCV 1,5/ 5-G1-3,5 P20THR R44	1818601	220
DMCV 1,5/ 6-G1-3,5 P20THR R44	1818614	220
DMCV 1,5/ 7-G1-3,5 P20THR R56	1818627	220
DMCV 1,5/ 8-G1-3,5 P20THR R56	1818630	220
DMCV 1,5/ 9-G1-3,5 P20THR R56	1818643	220
DMCV 1,5/10-G1-3,5 P20THR R56	1818656	220
DMCV 1,5/11-G1-3,5 P20THR R72	1818669	220
DMCV 1,5/12-G1-3,5 P20THR R72	1818672	220
DMCV 1,5/13-G1-3,5 P20THR R72	1818685	220
DMCV 1,5/14-G1-3,5 P20THR R72	1818698	220

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 3.5 mm, color: Black		
DMCV 1,5/ 2-G1F-3,5-LRP20THRR32	1818708	220
DMCV 1,5/ 3-G1F-3,5-LRP20THRR44	1818711	220
DMCV 1,5/ 4-G1F-3,5-LRP20THRR44	1818724	220
DMCV 1,5/ 5-G1F-3,5-LRP20THRR56	1818737	220
DMCV 1,5/ 6-G1F-3,5-LRP20THRR56	1818740	220
DMCV 1,5/ 7-G1F-3,5-LRP20THRR56	1818753	220
DMCV 1,5/ 8-G1F-3,5-LRP20THRR56	1818766	220
DMCV 1,5/ 9-G1F-3,5-LRP20THRR72	1818779	220
DMCV 1,5/10-G1F-3,5-LRP20THRR72	1818782	220
DMCV 1,5/11-G1F-3,5-LRP20THRR72	1818795	220
DMCV 1,5/12-G1F-3,5-LRP20THRR72	1818805	220

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Connector with a screw connection



- Flat design of the MC 1,5 connector range
- Generously dimensioned wiring space
- Plug-in direction parallel to the conductor axis
- Versions with and without screw flanges and lock & release levers
- Individual position keying by removing the keying tab and connecting the keying profile to the header
- Versions with a pullout aid can be provided; cables can be fixed to the pullout aid using cable binders
- Higher numbers of positions up to 20-pos. can be found at: **www.phoenixcontact.net/products**

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 182.

Dimension b:
3 to 4-pos. = 9.9 mm
5 to 7-pos. = 17.2 mm
8 to 9-pos. = 27.9 mm
≥ 10-pos. = 34.7 mm

The maximum torque for the screw flange is 0.3 Nm.

[1]) Please observe the derating curves. Derating curves of further combination options on request.

Accessories

For all types	Type	Page
	Marker cards **SK 3,5/2,8 or SK 3,81/2,8**	797
	Screwdriver **SZS 0,4 x 2,5 Order No. 1205037**	
Only for a 3.81 mm pitch		
	Insertion bridge **EBPL...-3,81**	829



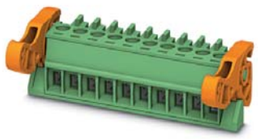
Connector with screw connection



With pull-out aid



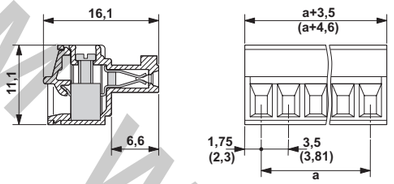
With screw flange



With Lock & Release system

N

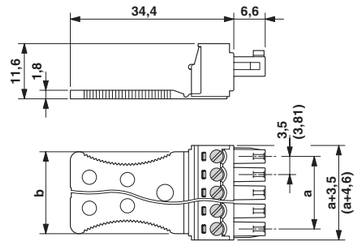
Dimensional drawing



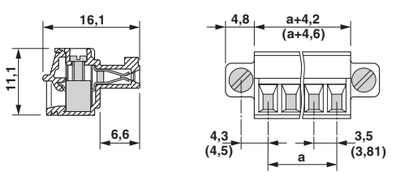
Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 1.5 mm²
Reduction factor = 0.8
Number of positions = see diagram

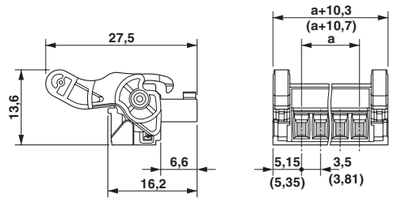
Dimensional drawing



Dimensional drawing

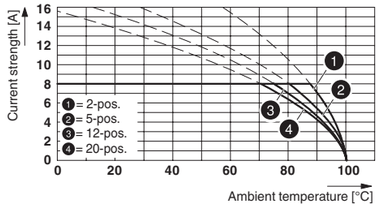


Dimensional drawing

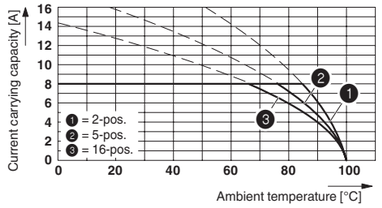


Representative derating curves of the above-mentioned plugs

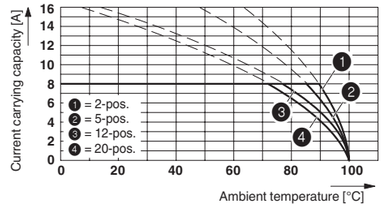
Type: MC 1,5/...-ST-3.81 with MC 1,5/...-G-3.81



Type: MC 1,5/...-ST-3.81 with MCD 1,5/...-G-3,81



Type: MC 1,5/...-ST-3,81 with SMC 1,5/...-G-3,81



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	8[1]) / 1.5		
Rated insulation voltage for pollution degree 2	[V]	160		
Pitch	[mm]	3.5 / 3.81		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	0.14 - 1.5 / 0.14 - 1.5 / 28 - 16		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 1.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 0.5		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	0.08 - 0.5 / 0.08 - 0.75		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 0.34		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 0.5		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	160	160	320
Rated surge voltage	[kV]	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	8	-	8
Connection capacity AWG	AWG	30 - 14	-	30 - 14
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	8	-	8
Connection capacity AWG	AWG	28 - 16	-	28 - 16
General data				
Stripping length	[mm]	7		
Screw thread		M2		
Tightening torque	[Nm]	0.22 - 0.25		
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		

Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		3.5 mm pitch, color: Green		
2	3.50	**MC 1,5/ 2-ST-3,5**	**1840366**	50
3	7.00	**MC 1,5/ 3-ST-3,5**	**1840379**	50
4	10.50	**MC 1,5/ 4-ST-3,5**	**1840382**	50
5	14.00	**MC 1,5/ 5-ST-3,5**	**1840395**	50
6	17.50	**MC 1,5/ 6-ST-3,5**	**1840405**	50
7	21.00	**MC 1,5/ 7-ST-3,5**	**1840418**	50
8	24.50	**MC 1,5/ 8-ST-3,5**	**1840421**	50
9	28.00	**MC 1,5/ 9-ST-3,5**	**1840434**	50
10	31.50	**MC 1,5/10-ST-3,5**	**1840447**	50
11	35.00	**MC 1,5/11-ST-3,5**	**1840450**	50
12	38.50	**MC 1,5/12-ST-3,5**	**1840463**	50
13	42.00	**MC 1,5/13-ST-3,5**	**1840476**	50
14	45.50	**MC 1,5/14-ST-3,5**	**1840489**	50
15	49.00	**MC 1,5/15-ST-3,5**	**1840492**	50
16	52.50	**MC 1,5/16-ST-3,5**	**1840502**	50
		Pitch 3.81 mm, color: Green		
2	3.81	**MC 1,5/ 2-ST-3,81**	**1803578**	50
3	7.62	**MC 1,5/ 3-ST-3,81**	**1803581**	50
4	11.43	**MC 1,5/ 4-ST-3,81**	**1803594**	50
5	15.24	**MC 1,5/ 5-ST-3,81**	**1803604**	50
6	19.05	**MC 1,5/ 6-ST-3,81**	**1803617**	50
7	22.86	**MC 1,5/ 7-ST-3,81**	**1803620**	50
8	26.67	**MC 1,5/ 8-ST-3,81**	**1803633**	50
9	30.48	**MC 1,5/ 9-ST-3,81**	**1803646**	50
10	34.29	**MC 1,5/10-ST-3,81**	**1803659**	50
11	38.10	**MC 1,5/11-ST-3,81**	**1803662**	50
12	41.91	**MC 1,5/12-ST-3,81**	**1803675**	50
13	45.72	**MC 1,5/13-ST-3,81**	**1803688**	50
14	49.53	**MC 1,5/14-ST-3,81**	**1803691**	50
15	53.34	**MC 1,5/15-ST-3,81**	**1803701**	50
16	57.15	**MC 1,5/16-ST-3,81**	**1803714**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
MC 1,5/ 3-STZ1-3,5	**1768871**	50
MC 1,5/ 4-STZ1-3,5	**1767500**	50
MC 1,5/ 5-STZ2-3,5	**1767623**	50
MC 1,5/ 6-STZ2-3,5	**1767610**	50
MC 1,5/ 7-STZ2-3,5	**1768884**	50
MC 1,5/ 8-STZ3-3,5	**1765599**	50
MC 1,5/ 9-STZ3-3,5	**1768897**	50
MC 1,5/10-STZ4-3,5	**1766255**	50
MC 1,5/11-STZ4-3,5	**1768907**	50
MC 1,5/12-STZ4-3,5	**1768910**	50
Pitch 3.81 mm, color: Green		
MC 1,5/ 3-STZ1-3,81	**1768923**	50
MC 1,5/ 4-STZ1-3,81	**1767461**	50
MC 1,5/ 5-STZ2-3,81	**1768936**	50
MC 1,5/ 6-STZ2-3,81	**1767694**	50
MC 1,5/ 7-STZ2-3,81	**1768949**	50
MC 1,5/ 8-STZ3-3,81	**1768952**	50
MC 1,5/ 9-STZ3-3,81	**1767665**	50
MC 1,5/10-STZ4-3,81	**1767209**	50
MC 1,5/11-STZ4-3,81	**1768965**	50
MC 1,5/12-STZ4-3,81	**1768978**	50
MC 1,5/13-STZ4-3,81	**1765557**	50

Ordering data

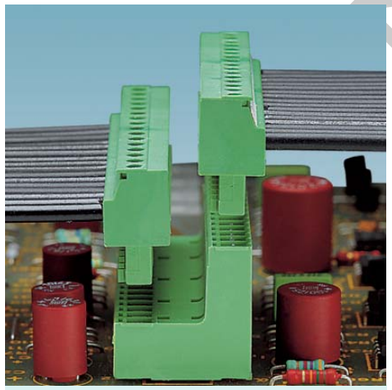
Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
MC 1,5/ 2-STF-3,5	**1847055**	50
MC 1,5/ 3-STF-3,5	**1847068**	50
MC 1,5/ 4-STF-3,5	**1847071**	50
MC 1,5/ 5-STF-3,5	**1847084**	50
MC 1,5/ 6-STF-3,5	**1847097**	50
MC 1,5/ 7-STF-3,5	**1847107**	50
MC 1,5/ 8-STF-3,5	**1847181**	50
MC 1,5/ 9-STF-3,5	**1847194**	50
MC 1,5/10-STF-3,5	**1847204**	50
MC 1,5/11-STF-3,5	**1847217**	50
MC 1,5/12-STF-3,5	**1847220**	50
MC 1,5/13-STF-3,5	**1847233**	50
MC 1,5/14-STF-3,5	**1847246**	50
MC 1,5/15-STF-3,5	**1847259**	50
MC 1,5/16-STF-3,5	**1847262**	50
Pitch 3.81 mm, color: Green		
MC 1,5/ 2-STF-3,81	**1827703**	50
MC 1,5/ 3-STF-3,81	**1827716**	50
MC 1,5/ 4-STF-3,81	**1827729**	50
MC 1,5/ 5-STF-3,81	**1827732**	50
MC 1,5/ 6-STF-3,81	**1827745**	50
MC 1,5/ 7-STF-3,81	**1827758**	50
MC 1,5/ 8-STF-3,81	**1827761**	50
MC 1,5/ 9-STF-3,81	**1827774**	50
MC 1,5/10-STF-3,81	**1827787**	50
MC 1,5/11-STF-3,81	**1827790**	50
MC 1,5/12-STF-3,81	**1827800**	50
MC 1,5/13-STF-3,81	**1827813**	50
MC 1,5/14-STF-3,81	**1827826**	50
MC 1,5/15-STF-3,81	**1827839**	50
MC 1,5/16-STF-3,81	**1827842**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
MC 1,5/ 2-ST-3,5-LR	**1816852**	50
MC 1,5/ 3-ST-3,5-LR	**1816865**	50
MC 1,5/ 4-ST-3,5-LR	**1816878**	50
MC 1,5/ 5-ST-3,5-LR	**1816881**	50
MC 1,5/ 6-ST-3,5-LR	**1816894**	50
MC 1,5/ 7-ST-3,5-LR	**1816904**	50
MC 1,5/ 8-ST-3,5-LR	**1816917**	50
MC 1,5/ 9-ST-3,5-LR	**1816920**	50
MC 1,5/10-ST-3,5-LR	**1816933**	50
MC 1,5/11-ST-3,5-LR	**1816946**	50
MC 1,5/12-ST-3,5-LR	**1816959**	50
MC 1,5/13-ST-3,5-LR	**1816962**	50
MC 1,5/14-ST-3,5-LR	**1816975**	50
MC 1,5/15-ST-3,5-LR	**1816988**	50
MC 1,5/16-ST-3,5-LR	**1816991**	50
Pitch 3.81 mm, color: Green		
MC 1,5/ 2-ST-3,81-LR	**1817042**	50
MC 1,5/ 3-ST-3,81-LR	**1817055**	50
MC 1,5/ 4-ST-3,81-LR	**1817068**	50
MC 1,5/ 5-ST-3,81-LR	**1817071**	50
MC 1,5/ 6-ST-3,81-LR	**1817084**	50
MC 1,5/ 7-ST-3,81-LR	**1817097**	50
MC 1,5/ 8-ST-3,81-LR	**1817107**	50
MC 1,5/ 9-ST-3,81-LR	**1817110**	50
MC 1,5/10-ST-3,81-LR	**1817123**	50
MC 1,5/11-ST-3,81-LR	**1817136**	50
MC 1,5/12-ST-3,81-LR	**1817149**	50
MC 1,5/13-ST-3,81-LR	**1817152**	50
MC 1,5/14-ST-3,81-LR	**1817165**	50
MC 1,5/15-ST-3,81-LR	**1817178**	50
MC 1,5/16-ST-3,81-LR	**1817181**	50

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Connector with a screw connection



- Connectors for vertical plug-in direction
- Compact dimensions of the MCV 1,5 connector range
- Generously dimensioned wiring space
- Versions with and without a screw flange
- Individual position keying by removing the keying tab and connecting the keying profile to the header

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

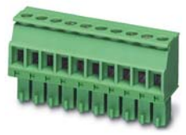
COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 182.

The maximum torque for the screw flange is 0.3 Nm.

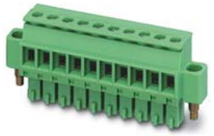
[1]) Derating curves on request.

Accessories

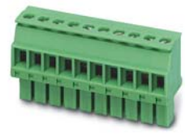
For all types	Type	Page
	Marker cards **SK 3,5/2,8 or SK 3,81/2,8**	797
	Screwdriver **SZS 0,4 x 2,5 Order No. 1205037**	
Only for a 3.81 mm pitch		
	Insertion bridge **EBPL...-3,81**	829



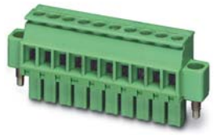
Conductor entry facing keying side



Conductor entry facing keying side, with screw flange

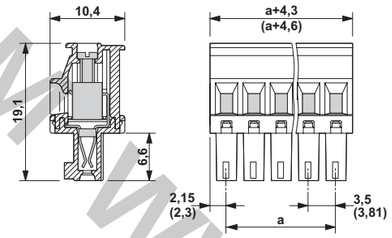


Conductor entry facing rippled side

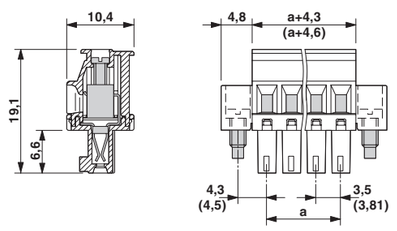


Conductor entry facing rippled side, with screw flange

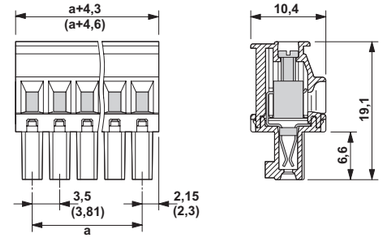
Dimensional drawing



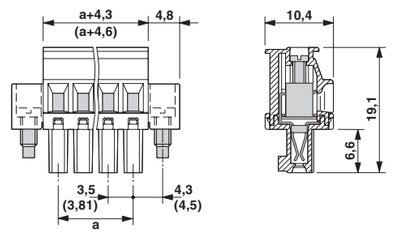
Dimensional drawing



Dimensional drawing



Dimensional drawing



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	8[1]) / 1.5		
Rated insulation voltage for pollution degree 2	[V]	160		
Pitch	[mm]	3.5 / 3.81		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	0.14 - 1.5 / 0.14 - 1.5 / 28 - 16		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 1.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 0.5		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	0.08 - 0.5 / 0.08 - 0.75		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 0.34		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 0.5		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	160	160	320
Rated surge voltage	[kV]	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	8	-	8
Connection capacity AWG	AWG	30 - 14	-	30 - 14
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Stripping length	[mm]	7		
Screw thread		M2		
Tightening torque	[Nm]	0.22 - 0.25		
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		

Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		3.5 mm pitch, color: Green		
2	3.50	**MCVR 1,5/ 2-ST-3,5**	**1863152**	50
3	7.00	**MCVR 1,5/ 3-ST-3,5**	**1863165**	50
4	10.50	**MCVR 1,5/ 4-ST-3,5**	**1863178**	50
5	14.00	**MCVR 1,5/ 5-ST-3,5**	**1863181**	50
6	17.50	**MCVR 1,5/ 6-ST-3,5**	**1863194**	50
7	21.00	**MCVR 1,5/ 7-ST-3,5**	**1863204**	50
8	24.50	**MCVR 1,5/ 8-ST-3,5**	**1863217**	50
9	28.00	**MCVR 1,5/ 9-ST-3,5**	**1863220**	50
10	31.50	**MCVR 1,5/10-ST-3,5**	**1863233**	50
11	35.00	**MCVR 1,5/11-ST-3,5**	**1863246**	50
12	38.50	**MCVR 1,5/12-ST-3,5**	**1863259**	50
13	42.00	**MCVR 1,5/13-ST-3,5**	**1863262**	50
14	45.50	**MCVR 1,5/14-ST-3,5**	**1863275**	50
15	49.00	**MCVR 1,5/15-ST-3,5**	**1863288**	50
16	52.50	**MCVR 1,5/16-ST-3,5**	**1863291**	50
		Pitch 3.81 mm, color: Green		
2	3.81	**MCVR 1,5/ 2-ST-3,81**	**1827127**	50
3	7.62	**MCVR 1,5/ 3-ST-3,81**	**1827130**	50
4	11.43	**MCVR 1,5/ 4-ST-3,81**	**1827143**	50
5	15.24	**MCVR 1,5/ 5-ST-3,81**	**1827156**	50
6	19.05	**MCVR 1,5/ 6-ST-3,81**	**1827169**	50
7	22.86	**MCVR 1,5/ 7-ST-3,81**	**1827172**	50
8	26.67	**MCVR 1,5/ 8-ST-3,81**	**1827185**	50
9	30.48	**MCVR 1,5/ 9-ST-3,81**	**1827198**	50
10	34.29	**MCVR 1,5/10-ST-3,81**	**1827208**	50
11	38.10	**MCVR 1,5/11-ST-3,81**	**1827211**	50
12	41.91	**MCVR 1,5/12-ST-3,81**	**1827224**	50
13	45.72	**MCVR 1,5/13-ST-3,81**	**1827237**	50
14	49.53	**MCVR 1,5/14-ST-3,81**	**1827240**	50
15	53.34	**MCVR 1,5/15-ST-3,81**	**1827253**	50
16	57.15	**MCVR 1,5/16-ST-3,81**	**1827266**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
MCVR 1,5/ 2-STF-3,5	**1863301**	50
MCVR 1,5/ 3-STF-3,5	**1863314**	50
MCVR 1,5/ 4-STF-3,5	**1863327**	50
MCVR 1,5/ 5-STF-3,5	**1863330**	50
MCVR 1,5/ 6-STF-3,5	**1863343**	50
MCVR 1,5/ 7-STF-3,5	**1863356**	50
MCVR 1,5/ 8-STF-3,5	**1863369**	50
MCVR 1,5/ 9-STF-3,5	**1863372**	50
MCVR 1,5/10-STF-3,5	**1863385**	50
MCVR 1,5/11-STF-3,5	**1863398**	50
MCVR 1,5/12-STF-3,5	**1863408**	50
MCVR 1,5/13-STF-3,5	**1863411**	50
MCVR 1,5/14-STF-3,5	**1863424**	50
MCVR 1,5/15-STF-3,5	**1863437**	50
MCVR 1,5/16-STF-3,5	**1863440**	50
Pitch 3.81 mm, color: Green		
MCVR 1,5/ 2-STF-3,81	**1828346**	50
MCVR 1,5/ 3-STF-3,81	**1828359**	50
MCVR 1,5/ 4-STF-3,81	**1828362**	50
MCVR 1,5/ 5-STF-3,81	**1828375**	50
MCVR 1,5/ 6-STF-3,81	**1828388**	50
MCVR 1,5/ 7-STF-3,81	**1828391**	50
MCVR 1,5/ 8-STF-3,81	**1828401**	50
MCVR 1,5/ 9-STF-3,81	**1828414**	50
MCVR 1,5/10-STF-3,81	**1828427**	50
MCVR 1,5/11-STF-3,81	**1828430**	50
MCVR 1,5/12-STF-3,81	**1828443**	50
MCVR 1,5/13-STF-3,81	**1828456**	50
MCVR 1,5/14-STF-3,81	**1828469**	50
MCVR 1,5/15-STF-3,81	**1828472**	50
MCVR 1,5/16-STF-3,81	**1828485**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
MCVW 1,5/ 2-ST-3,5	**1862852**	50
MCVW 1,5/ 3-ST-3,5	**1862865**	50
MCVW 1,5/ 4-ST-3,5	**1862878**	50
MCVW 1,5/ 5-ST-3,5	**1862881**	50
MCVW 1,5/ 6-ST-3,5	**1862894**	50
MCVW 1,5/ 7-ST-3,5	**1862904**	50
MCVW 1,5/ 8-ST-3,5	**1862917**	50
MCVW 1,5/ 9-ST-3,5	**1862920**	50
MCVW 1,5/10-ST-3,5	**1862933**	50
MCVW 1,5/11-ST-3,5	**1862946**	50
MCVW 1,5/12-ST-3,5	**1862959**	50
MCVW 1,5/13-ST-3,5	**1862962**	50
MCVW 1,5/14-ST-3,5	**1862975**	50
MCVW 1,5/15-ST-3,5	**1862988**	50
MCVW 1,5/16-ST-3,5	**1862991**	50
Pitch 3.81 mm, color: Green		
MCVW 1,5/ 2-ST-3,81	**1826979**	50
MCVW 1,5/ 3-ST-3,81	**1826982**	50
MCVW 1,5/ 4-ST-3,81	**1826995**	50
MCVW 1,5/ 5-ST-3,81	**1827004**	50
MCVW 1,5/ 6-ST-3,81	**1827017**	50
MCVW 1,5/ 7-ST-3,81	**1827020**	50
MCVW 1,5/ 8-ST-3,81	**1827033**	50
MCVW 1,5/ 9-ST-3,81	**1827046**	50
MCVW 1,5/10-ST-3,81	**1827059**	50
MCVW 1,5/11-ST-3,81	**1827062**	50
MCVW 1,5/12-ST-3,81	**1827075**	50
MCVW 1,5/13-ST-3,81	**1827088**	50
MCVW 1,5/14-ST-3,81	**1827091**	50
MCVW 1,5/15-ST-3,81	**1827101**	50
MCVW 1,5/16-ST-3,81	**1827114**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
MCVW 1,5/ 2-STF-3,5	**1863000**	50
MCVW 1,5/ 3-STF-3,5	**1863013**	50
MCVW 1,5/ 4-STF-3,5	**1863026**	50
MCVW 1,5/ 5-STF-3,5	**1863039**	50
MCVW 1,5/ 6-STF-3,5	**1863042**	50
MCVW 1,5/ 7-STF-3,5	**1863055**	50
MCVW 1,5/ 8-STF-3,5	**1863068**	50
MCVW 1,5/ 9-STF-3,5	**1863071**	50
MCVW 1,5/10-STF-3,5	**1863084**	50
MCVW 1,5/11-STF-3,5	**1863097**	50
MCVW 1,5/12-STF-3,5	**1863107**	50
MCVW 1,5/13-STF-3,5	**1863110**	50
MCVW 1,5/14-STF-3,5	**1863123**	50
MCVW 1,5/15-STF-3,5	**1863136**	50
MCVW 1,5/16-STF-3,5	**1863149**	50
Pitch 3.81 mm, color: Green		
MCVW 1,5/ 2-STF-3,81	**1828498**	50
MCVW 1,5/ 3-STF-3,81	**1828508**	50
MCVW 1,5/ 4-STF-3,81	**1828511**	50
MCVW 1,5/ 5-STF-3,81	**1828524**	50
MCVW 1,5/ 6-STF-3,81	**1828537**	50
MCVW 1,5/ 7-STF-3,81	**1828540**	50
MCVW 1,5/ 8-STF-3,81	**1828553**	50
MCVW 1,5/ 9-STF-3,81	**1828566**	50
MCVW 1,5/10-STF-3,81	**1828579**	50
MCVW 1,5/11-STF-3,81	**1828582**	50
MCVW 1,5/12-STF-3,81	**1828595**	50
MCVW 1,5/13-STF-3,81	**1828605**	50
MCVW 1,5/14-STF-3,81	**1828618**	50
MCVW 1,5/15-STF-3,81	**1828621**	50
MCVW 1,5/16-STF-3,81	**1828634**	50

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Connector with a screw connection



- Connectors with front screw connection
- Pitch: 3.81 mm
- Screwdriver axis parallel to the conductor axis
- Generously dimensioned wiring space
- Individual position keying by removing the keying tab and connecting the keying profile to the header
- Versions with and without a screw flange
- Higher numbers of positions up to 20-pos. can be found at: **www.phoenixcontact.net/products**

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

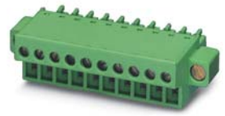
COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 182.

The maximum torque for the screw flange is 0.3 Nm.

[1]) Please observe the derating curves. Derating curves of further combination options on request.



With front screw connection

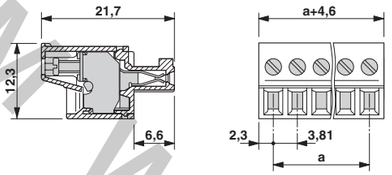


With front screw connection and screw flange

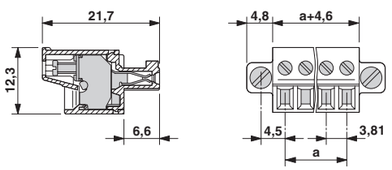
Accessories

For all types	Type	Page
	Marker cards **SK 3,5/2,8 or SK 3,81/2,8**	797
	Screwdriver **SZS 0,4 x 2,5 Order No. 1205037**	
	Insertion bridge **EBPL...-3,81**	829

Dimensional drawing



Dimensional drawing

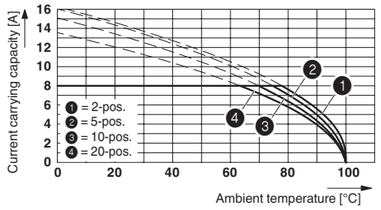


Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 1.5 mm²
Reduction factor = 0.8
Number of positions = see diagram

Representative derating curve

Type: FRONT-MC 1,5/...-ST-3,81 with MC 1,5/...-G-3,81



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	8[1]) / 1.5		
Rated insulation voltage for pollution degree 2	[V]	160		
Pitch	[mm]	3.81		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	0.14 - 1.5 / 0.14 - 1.5 / 28 - 16		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 1.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 0.5		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	0.14 - 0.5 / 0.14 - 0.75		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 0.34		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 0.5		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	160	160	320
Rated surge voltage	[kV]	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	8	-	8
Connection capacity AWG	AWG	30 - 16	-	30 - 16
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	8	-	8
Connection capacity AWG	AWG	28 - 16	-	28 - 16
General data				
Stripping length	[mm]	9		
Screw thread		M2		
Tightening torque	[Nm]	0.22 - 0.25		
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		

No. of pos.	Dim. a [mm]
2	3.81
3	7.62
4	11.43
5	15.24
6	19.05
7	22.86
8	26.67
9	30.48
10	34.29
11	38.10
12	41.91
13	45.72
14	49.53
15	53.34
16	57.18

Ordering data

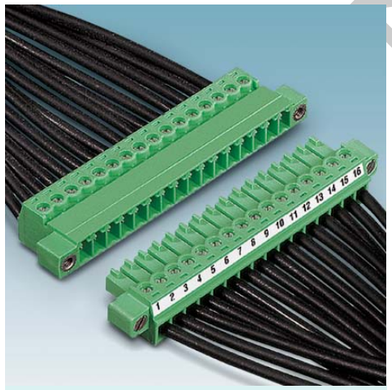
Type	Order No.	Pcs. / Pkt.
Pitch 3.81 mm, color: Green		
FRONT-MC 1,5/ 2-ST-3,81	**1850660**	50
FRONT-MC 1,5/ 3-ST-3,81	**1850673**	50
FRONT-MC 1,5/ 4-ST-3,81	**1850686**	50
FRONT-MC 1,5/ 5-ST-3,81	**1850699**	50
FRONT-MC 1,5/ 6-ST-3,81	**1850709**	50
FRONT-MC 1,5/ 7-ST-3,81	**1850712**	50
FRONT-MC 1,5/ 8-ST-3,81	**1850725**	50
FRONT-MC 1,5/ 9-ST-3,81	**1850738**	50
FRONT-MC 1,5/10-ST-3,81	**1850741**	50
FRONT-MC 1,5/11-ST-3,81	**1850754**	50
FRONT-MC 1,5/12-ST-3,81	**1850767**	50
FRONT-MC 1,5/13-ST-3,81	**1850770**	50
FRONT-MC 1,5/14-ST-3,81	**1850783**	50
FRONT-MC 1,5/15-ST-3,81	**1850796**	50
FRONT-MC 1,5/16-ST-3,81	**1850806**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 3.81 mm, color: Green		
FRONT-MC 1,5/ 2-STF-3,81	**1850851**	50
FRONT-MC 1,5/ 3-STF-3,81	**1850864**	50
FRONT-MC 1,5/ 4-STF-3,81	**1850877**	50
FRONT-MC 1,5/ 5-STF-3,81	**1850880**	50
FRONT-MC 1,5/ 6-STF-3,81	**1850893**	50
FRONT-MC 1,5/ 7-STF-3,81	**1850903**	50
FRONT-MC 1,5/ 8-STF-3,81	**1850916**	50
FRONT-MC 1,5/ 9-STF-3,81	**1850929**	50
FRONT-MC 1,5/10-STF-3,81	**1850932**	50
FRONT-MC 1,5/11-STF-3,81	**1850945**	50
FRONT-MC 1,5/12-STF-3,81	**1850958**	50
FRONT-MC 1,5/13-STF-3,81	**1850961**	50
FRONT-MC 1,5/14-STF-3,81	**1850974**	50
FRONT-MC 1,5/15-STF-3,81	**1850987**	50
FRONT-MC 1,5/16-STF-3,81	**1850990**	50

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Inverted connectors with a screw connection



- Use in contact protected applications
- Combination options with MC 1,5 connectors for free hanging connections
- Pitch: 3.81 mm
- Combination options with IMC headers for a clear separation of PCB inputs/outputs
- Individual position coding by connecting the keying profile to the inverted connector and by removing the keying tab on the counterpart
- Versions with and without a threaded flange

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 182.

The maximum torque for the screw flange is 0.3 Nm.

1) Please observe the derating curves. Derating curves of further combination options on request.

Accessories

For all types	Type	Page
	Keying profile **CP-MSTB** **Order No. 1734634**	38
	Screwdriver **SZS 0,4 x 2,5** **Order No. 1205037**	
	Marker cards **SK 3,81/2,8**	797
	Insertion bridge **EBPL...-3,81**	829

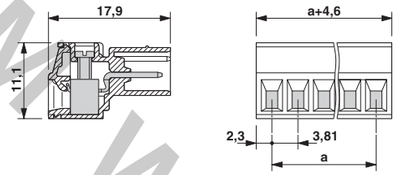


Inverted connector with screw connection



With threaded flange for screw connection with MC connectors

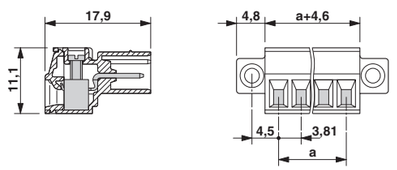
Dimensional drawing



Note derating curves

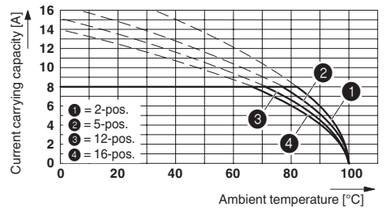
Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 1.5 mm²
Reduction factor = 0.8
Number of positions = see diagram

Dimensional drawing



Representative derating curve

Type: IMC 1,5/...-ST-3,81 with IMC 1,5/...-G-3,81



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	8¹) / 1.5		
Rated insulation voltage for pollution degree 2	[V]	160		
Pitch	[mm]	3.81		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	0.14 - 1.5 / 0.14 - 1.5 / 28 - 16		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 1.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 0.5		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	0.08 - 0.5 / 0.08 - 0.75		
Stranded with ferrules without plastic sleeve	[mm²]	0.2 - 0.34		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 0.5		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	160	160	320
Rated surge voltage	[kV]	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	8	-	8
Connection capacity AWG	AWG	30 - 14	-	30 - 14
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Stripping length	[mm]	7		
Screw thread		M2		
Tightening torque	[Nm]	0.22 - 0.25		
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		

No. of pos.	Dim. a [mm]
2	3.81
3	7.62
4	11.43
5	15.24
6	19.05
7	22.86
8	26.67
9	30.48
10	34.29
11	38.10
12	41.91
13	45.72
14	49.53
15	53.34
16	57.15

Ordering data

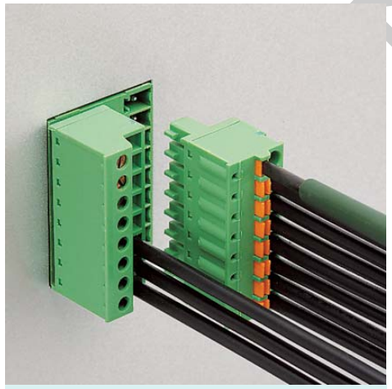
Type	Order No.	Pcs. / Pkt.
Pitch 3.81 mm, color: Green		
IMC 1,5/ 2-ST-3,81	**1857883**	50
IMC 1,5/ 3-ST-3,81	**1857896**	50
IMC 1,5/ 4-ST-3,81	**1857906**	50
IMC 1,5/ 5-ST-3,81	**1857919**	50
IMC 1,5/ 6-ST-3,81	**1857922**	50
IMC 1,5/ 7-ST-3,81	**1857935**	50
IMC 1,5/ 8-ST-3,81	**1857948**	50
IMC 1,5/ 9-ST-3,81	**1857951**	50
IMC 1,5/10-ST-3,81	**1857964**	50
IMC 1,5/11-ST-3,81	**1857977**	50
IMC 1,5/12-ST-3,81	**1857980**	50
IMC 1,5/13-ST-3,81	**1857993**	50
IMC 1,5/14-ST-3,81	**1858002**	50
IMC 1,5/15-ST-3,81	**1858015**	50
IMC 1,5/16-ST-3,81	**1858028**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 3.81 mm, color: Green		
IMC 1,5/ 2-STGF-3,81	**1858031**	50
IMC 1,5/ 3-STGF-3,81	**1858044**	50
IMC 1,5/ 4-STGF-3,81	**1858057**	50
IMC 1,5/ 5-STGF-3,81	**1858060**	50
IMC 1,5/ 6-STGF-3,81	**1858073**	50
IMC 1,5/ 7-STGF-3,81	**1858086**	50
IMC 1,5/ 8-STGF-3,81	**1858099**	50
IMC 1,5/ 9-STGF-3,81	**1858109**	50
IMC 1,5/10-STGF-3,81	**1858112**	50
IMC 1,5/11-STGF-3,81	**1858125**	50
IMC 1,5/12-STGF-3,81	**1858138**	50
IMC 1,5/13-STGF-3,81	**1858141**	50
IMC 1,5/14-STGF-3,81	**1858154**	50
IMC 1,5/15-STGF-3,81	**1858167**	50
IMC 1,5/16-STGF-3,81	**1858170**	50

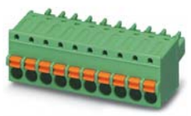
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Plug with push-in spring connection

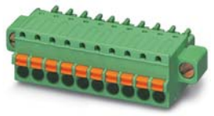


- Different combination options with MC headers with a 3.5/3.81 pitch
- Fast conductor connection, thanks to push-in spring connection
- Convenient operation of the terminal point using a screwdriver
- Test connection to accommodate 1.2 mm Ø test pins or 1 mm Ø test connectors
- Versions with and without a screw flange
- Versions with Lock & Release system
- Higher numbers of positions up to 20-pos. can be found at: **www.phoenixcontact.net/products**

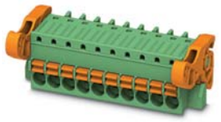
Notes:
In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
COMBICON select You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 182.
The maximum torque for the screw flange is 0.3 Nm.
1) Please observe the derating curves. Derating curves of further combination options on request.
2) Use of ferrules with stripping length L_2 = 10 mm



Plug with push-in spring connection



With screw flange

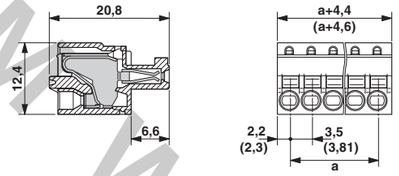


With Lock & Release system

Accessories

For all types	Type	Page
	Screwdriver **SZS 0,4 x 2,5** **Order No.** **1205037**	
	Marker cards **SK 3,5/2,8 or SK 3,81/2,8**	797
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm² **CRIMPFOX 6** **Order No.** **1212034**	
	Test plug **MPS-MT 1-S** **Order No.** **1944372**	831

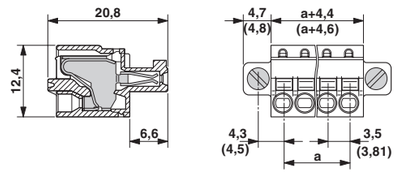
Dimensional drawing



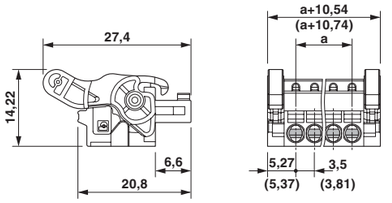
Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 1.5 mm²
Reduction factor = 0.8
Number of positions = see diagram

Dimensional drawing

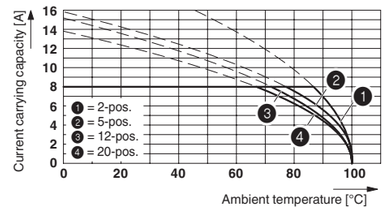


Dimensional drawing



Representative derating curve

Type: FK-MCP 1,5/...-ST-3,81 with MC 1,5/...-G-3,81



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	8¹) / 1.5		
Rated insulation voltage for pollution degree 2	[V]	160		
Pitch	[mm]	3.5 / 3.81		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	0.14 - 1.5 / 0.14 - 1.5 / 26 - 16		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 1.5²)		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 0.5²)		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	- / -		
Stranded with ferrules without plastic sleeve	[mm²]	-		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	-		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	160	160	320
Rated surge voltage	[kV]	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	8	-	8
Connection capacity AWG	AWG	28 - 16	-	28 - 16
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Stripping length	[mm]	9		
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		

Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		3.5 mm pitch, color: Green		
2	3.50	**FK-MCP 1,5/ 2-ST-3,5**	**1939918**	50
3	7.00	**FK-MCP 1,5/ 3-ST-3,5**	**1939921**	50
4	10.50	**FK-MCP 1,5/ 4-ST-3,5**	**1939934**	50
5	14.00	**FK-MCP 1,5/ 5-ST-3,5**	**1939947**	50
6	17.50	**FK-MCP 1,5/ 6-ST-3,5**	**1939950**	50
7	21.00	**FK-MCP 1,5/ 7-ST-3,5**	**1939960**	50
8	24.50	**FK-MCP 1,5/ 8-ST-3,5**	**1939963**	50
9	28.00	**FK-MCP 1,5/ 9-ST-3,5**	**1939976**	50
10	31.50	**FK-MCP 1,5/10-ST-3,5**	**1939989**	50
11	35.00	**FK-MCP 1,5/11-ST-3,5**	**1939992**	50
12	38.50	**FK-MCP 1,5/12-ST-3,5**	**1940004**	50
13	42.00	**FK-MCP 1,5/13-ST-3,5**	**1940017**	50
14	45.50	**FK-MCP 1,5/14-ST-3,5**	**1940020**	50
15	49.00	**FK-MCP 1,5/15-ST-3,5**	**1940033**	50
16	52.50	**FK-MCP 1,5/16-ST-3,5**	**1940046**	50
		Pitch 3.81 mm, color: Green		
2	3.81	**FK-MCP 1,5/ 2-ST-3,81**	**1851041**	50
3	7.62	**FK-MCP 1,5/ 3-ST-3,81**	**1851054**	50
4	11.43	**FK-MCP 1,5/ 4-ST-3,81**	**1851067**	50
5	15.24	**FK-MCP 1,5/ 5-ST-3,81**	**1851070**	50
6	19.05	**FK-MCP 1,5/ 6-ST-3,81**	**1851083**	50
7	22.86	**FK-MCP 1,5/ 7-ST-3,81**	**1851096**	50
8	26.67	**FK-MCP 1,5/ 8-ST-3,81**	**1851106**	50
9	30.48	**FK-MCP 1,5/ 9-ST-3,81**	**1851119**	50
10	34.29	**FK-MCP 1,5/10-ST-3,81**	**1851122**	50
11	38.10	**FK-MCP 1,5/11-ST-3,81**	**1851135**	50
12	41.91	**FK-MCP 1,5/12-ST-3,81**	**1851148**	50
13	45.72	**FK-MCP 1,5/13-ST-3,81**	**1851151**	50
14	49.53	**FK-MCP 1,5/14-ST-3,81**	**1851164**	50
15	53.34	**FK-MCP 1,5/15-ST-3,81**	**1851177**	50
16	57.15	**FK-MCP 1,5/16-ST-3,81**	**1851180**	50

Ordering data

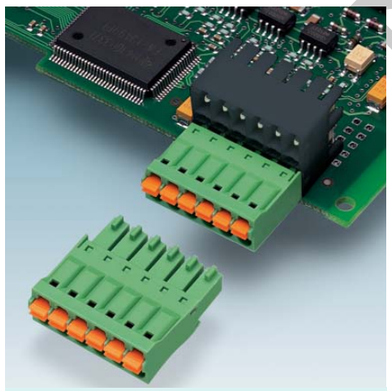
Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
FK-MCP 1,5/ 2-STF-3,5	**1940091**	50
FK-MCP 1,5/ 3-STF-3,5	**1940101**	50
FK-MCP 1,5/ 4-STF-3,5	**1940114**	50
FK-MCP 1,5/ 5-STF-3,5	**1940127**	50
FK-MCP 1,5/ 6-STF-3,5	**1940130**	50
FK-MCP 1,5/ 7-STF-3,5	**1940143**	50
FK-MCP 1,5/ 8-STF-3,5	**1940156**	50
FK-MCP 1,5/ 9-STF-3,5	**1940169**	50
FK-MCP 1,5/10-STF-3,5	**1940172**	50
FK-MCP 1,5/11-STF-3,5	**1940185**	50
FK-MCP 1,5/12-STF-3,5	**1940198**	50
FK-MCP 1,5/13-STF-3,5	**1940208**	50
FK-MCP 1,5/14-STF-3,5	**1940211**	50
FK-MCP 1,5/15-STF-3,5	**1940224**	50
FK-MCP 1,5/16-STF-3,5	**1940237**	50
Pitch 3.81 mm, color: Green		
FK-MCP 1,5/ 2-STF-3,81	**1851232**	50
FK-MCP 1,5/ 3-STF-3,81	**1851245**	50
FK-MCP 1,5/ 4-STF-3,81	**1851258**	50
FK-MCP 1,5/ 5-STF-3,81	**1851261**	50
FK-MCP 1,5/ 6-STF-3,81	**1851274**	50
FK-MCP 1,5/ 7-STF-3,81	**1851287**	50
FK-MCP 1,5/ 8-STF-3,81	**1851290**	50
FK-MCP 1,5/ 9-STF-3,81	**1851300**	50
FK-MCP 1,5/10-STF-3,81	**1851313**	50
FK-MCP 1,5/11-STF-3,81	**1851326**	50
FK-MCP 1,5/12-STF-3,81	**1851339**	50
FK-MCP 1,5/13-STF-3,81	**1851342**	50
FK-MCP 1,5/14-STF-3,81	**1851355**	50
FK-MCP 1,5/15-STF-3,81	**1851368**	50
FK-MCP 1,5/16-STF-3,81	**1851371**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
FK-MCP 1,5/ 2-ST-3,5-LR	**1817233**	50
FK-MCP 1,5/ 3-ST-3,5-LR	**1817246**	50
FK-MCP 1,5/ 4-ST-3,5-LR	**1817259**	50
FK-MCP 1,5/ 5-ST-3,5-LR	**1817262**	50
FK-MCP 1,5/ 6-ST-3,5-LR	**1817275**	50
FK-MCP 1,5/ 7-ST-3,5-LR	**1817288**	50
FK-MCP 1,5/ 8-ST-3,5-LR	**1817291**	50
FK-MCP 1,5/ 9-ST-3,5-LR	**1817301**	50
FK-MCP 1,5/10-ST-3,5-LR	**1817314**	50
FK-MCP 1,5/11-ST-3,5-LR	**1817327**	50
FK-MCP 1,5/12-ST-3,5-LR	**1817330**	50
FK-MCP 1,5/13-ST-3,5-LR	**1817343**	50
FK-MCP 1,5/14-ST-3,5-LR	**1817356**	50
FK-MCP 1,5/15-ST-3,5-LR	**1817369**	50
FK-MCP 1,5/16-ST-3,5-LR	**1817372**	50
Pitch 3.81 mm, color: Green		
FK-MCP 1,5/ 2-ST-3,81-LR	**1817424**	50
FK-MCP 1,5/ 3-ST-3,81-LR	**1817437**	50
FK-MCP 1,5/ 4-ST-3,81-LR	**1817440**	50
FK-MCP 1,5/ 5-ST-3,81-LR	**1817453**	50
FK-MCP 1,5/ 6-ST-3,81-LR	**1817466**	50
FK-MCP 1,5/ 7-ST-3,81-LR	**1817479**	50
FK-MCP 1,5/ 8-ST-3,81-LR	**1817482**	50
FK-MCP 1,5/ 9-ST-3,81-LR	**1817495**	50
FK-MCP 1,5/10-ST-3,81-LR	**1817505**	50
FK-MCP 1,5/11-ST-3,81-LR	**1817518**	50
FK-MCP 1,5/12-ST-3,81-LR	**1817521**	50
FK-MCP 1,5/13-ST-3,81-LR	**1817534**	50
FK-MCP 1,5/14-ST-3,81-LR	**1817547**	50
FK-MCP 1,5/15-ST-3,81-LR	**1817550**	50
FK-MCP 1,5/16-ST-3,81-LR	**1817563**	50

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Plug with push-in spring connection

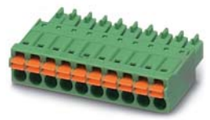


- Extremely flat design, only 7.8 mm
- Different combination options with all MC 1,5 headers with a 3.5 mm pitch
- Maximum contact and packaging density in combination with double-level MCDN(V) 1,5 headers
- Fast conductor connection, thanks to push-in spring connection
- Convenient operation of the terminal point using a screwdriver
- Touch connection for voltage testing using a 1 mm Ø test pin
- Versions with and without a screw flange or with a self-locking flange

Notes:
In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
COMBICON select You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 182.
For larger numbers of positions up to 20-pos., visit **www.phoenixcontact.net/products**
The maximum torque for the screw flange is 0.3 Nm.
[1]) Please observe the derating curves. Derating curves of further combination options on request.

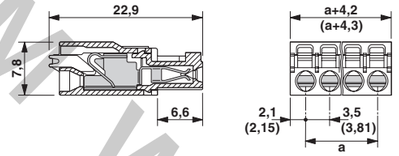
Accessories

For all types	Type	Page
	Marker cards **SK 3,5/2,8**	797
	Screwdriver **SZS 0,4 x 2,5** **Order No. 1205037**	
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm² **CRIMPFOX 6** **Order No. 1212034**	



Connector with flat design

Dimensional drawing



Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 1.5 mm²
Reduction factor = 0.8
Number of positions = see diagram

Technical data

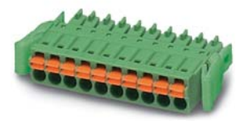
Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	8[1]) / 1.5		
Rated insulation voltage for pollution degree 2	[V]	160		
Pitch	[mm]	3.5 / 3.81		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 1.5 / 0.2 - 1.5 / 24 - 16		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 1.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 0.75		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	- / -		
Stranded with ferrules without plastic sleeve	[mm²]	-		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	-		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	160	160	320
Rated surge voltage	[kV]	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	150	-	150
Nominal current	[A]	8	-	8
Connection capacity AWG	AWG	24 - 16	-	24 - 16
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Stripping length	[mm]	10		
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		

Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		3.5 mm pitch, color: Green		
2	3.50	**FMC 1,5/ 2-ST-3,5**	**1952267**	50
3	7.00	**FMC 1,5/ 3-ST-3,5**	**1952270**	50
4	10.50	**FMC 1,5/ 4-ST-3,5**	**1952283**	50
5	14.00	**FMC 1,5/ 5-ST-3,5**	**1952296**	50
6	17.50	**FMC 1,5/ 6-ST-3,5**	**1952306**	50
7	21.00	**FMC 1,5/ 7-ST-3,5**	**1952319**	50
8	24.50	**FMC 1,5/ 8-ST-3,5**	**1952322**	50
9	28.00	**FMC 1,5/ 9-ST-3,5**	**1952335**	50
10	31.50	**FMC 1,5/10-ST-3,5**	**1952348**	50
11	35.00	**FMC 1,5/11-ST-3,5**	**1952351**	50
12	38.50	**FMC 1,5/12-ST-3,5**	**1952364**	50
13	42.00	**FMC 1,5/13-ST-3,5**	**1952377**	50
14	45.50	**FMC 1,5/14-ST-3,5**	**1952380**	50
15	49.00	**FMC 1,5/15-ST-3,5**	**1952393**	50
16	52.50	**FMC 1,5/16-ST-3,5**	**1952403**	50
		Pitch 3.81 mm, color: Green		
2	3.81	**FMC 1,5/ 2-ST-3,81**	**1745894**	50
3	7.62	**FMC 1,5/ 3-ST-3,81**	**1745904**	50
4	11.43	**FMC 1,5/ 4-ST-3,81**	**1745917**	50
5	15.24	**FMC 1,5/ 5-ST-3,81**	**1745920**	50
6	19.05	**FMC 1,5/ 6-ST-3,81**	**1748011**	50
7	22.86	**FMC 1,5/ 7-ST-3,81**	**1748024**	50
8	26.67	**FMC 1,5/ 8-ST-3,81**	**1748037**	50
9	30.48	**FMC 1,5/ 9-ST-3,81**	**1748040**	50
10	34.29	**FMC 1,5/10-ST-3,81**	**1748053**	50
11	38.10	**FMC 1,5/11-ST-3,81**	**1748066**	50
12	41.91	**FMC 1,5/12-ST-3,81**	**1748079**	50
13	44.72	**FMC 1,5/13-ST-3,81**	**1748082**	50
14	48.53	**FMC 1,5/14-ST-3,81**	**1748095**	50
15	52.34	**FMC 1,5/15-ST-3,81**	**1748105**	50
16	56.15	**FMC 1,5/16-ST-3,81**	**1748118**	50

Mini plug-in connectors with 3.5/3.81 and 5.08 mm pitch

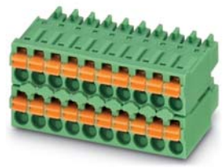
MINI COMBICON plug-in connectors, pitches 3.5 or 3.81 and 5.08 mm



Connector with flat design with self-locking flange

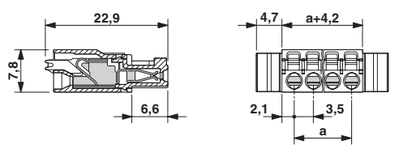


Connector with flat design with screw flange

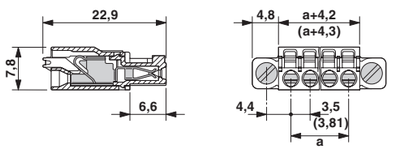


Double-row connector with flat design

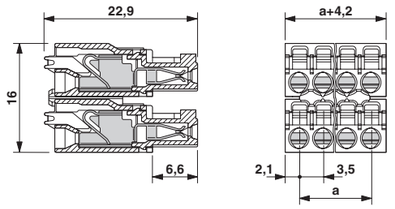
Dimensional drawing



Dimensional drawing

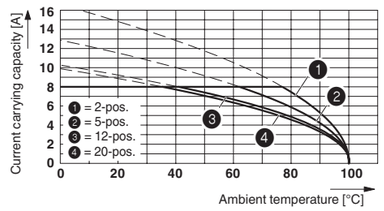


Dimensional drawing

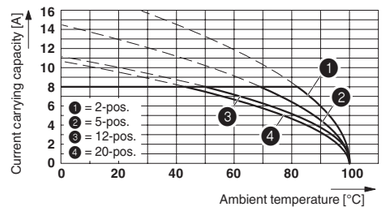


Representative derating curves of the above-mentioned plugs

Type: FMC 1,5/...-ST-3,5 with MCDN 1,5/...-G1-3,5 P26THR



Typ:FMC 1,5/...-ST-3,5 with MCDNV 1,5/...-G1-3,5 P26THR



Ordering data

Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
FMC 1,5/ 2-ST-3,5-RF	**1952021**	50
FMC 1,5/ 3-ST-3,5-RF	**1952034**	50
FMC 1,5/ 4-ST-3,5-RF	**1952047**	50
FMC 1,5/ 5-ST-3,5-RF	**1952050**	50
FMC 1,5/ 6-ST-3,5-RF	**1952063**	50
FMC 1,5/ 7-ST-3,5-RF	**1952076**	50
FMC 1,5/ 8-ST-3,5-RF	**1952089**	50
FMC 1,5/ 9-ST-3,5-RF	**1952092**	50
FMC 1,5/10-ST-3,5-RF	**1952102**	50
FMC 1,5/11-ST-3,5-RF	**1952115**	50
FMC 1,5/12-ST-3,5-RF	**1952128**	50
FMC 1,5/13-ST-3,5-RF	**1952131**	50
FMC 1,5/14-ST-3,5-RF	**1952144**	50
FMC 1,5/15-ST-3,5-RF	**1952157**	50
FMC 1,5/16-ST-3,5-RF	**1952160**	50

Ordering data

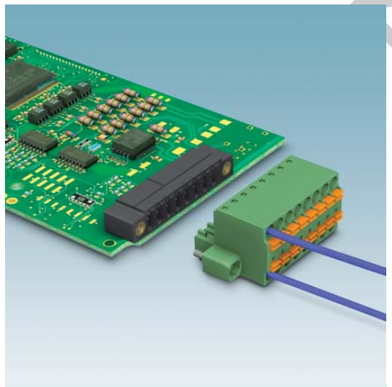
Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
FMC 1,5/ 2-STF-3,5	**1966091**	50
FMC 1,5/ 3-STF-3,5	**1966101**	50
FMC 1,5/ 4-STF-3,5	**1966114**	50
FMC 1,5/ 5-STF-3,5	**1966127**	50
FMC 1,5/ 6-STF-3,5	**1966130**	50
FMC 1,5/ 7-STF-3,5	**1966143**	50
FMC 1,5/ 8-STF-3,5	**1966156**	50
FMC 1,5/ 9-STF-3,5	**1966169**	50
FMC 1,5/10-STF-3,5	**1966172**	50
FMC 1,5/11-STF-3,5	**1966185**	50
FMC 1,5/12-STF-3,5	**1966198**	50
FMC 1,5/13-STF-3,5	**1966208**	50
FMC 1,5/14-STF-3,5	**1966211**	50
FMC 1,5/15-STF-3,5	**1966224**	50
FMC 1,5/16-STF-3,5	**1966237**	50
Pitch 3.81 mm, color: Green		
FMC 1,5/ 2-STF-3,81	**1748354**	50
FMC 1,5/ 3-STF-3,81	**1748367**	50
FMC 1,5/ 4-STF-3,81	**1748370**	50
FMC 1,5/ 5-STF-3,81	**1748383**	50
FMC 1,5/ 6-STF-3,81	**1748396**	50
FMC 1,5/ 7-STF-3,81	**1748406**	50
FMC 1,5/ 8-STF-3,81	**1748419**	50
FMC 1,5/ 9-STF-3,81	**1748422**	50
FMC 1,5/10-STF-3,81	**1748435**	50
FMC 1,5/11-STF-3,81	**1748448**	50
FMC 1,5/12-STF-3,81	**1748451**	50
FMC 1,5/13-STF-3,81	**1748464**	50
FMC 1,5/14-STF-3,81	**1748477**	50
FMC 1,5/15-STF-3,81	**1748480**	50
FMC 1,5/16-STF-3,81	**1748493**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
FMCD 1,5/ 3-ST-3,5	**1738814**	50
FMCD 1,5/ 4-ST-3,5	**1738827**	50
FMCD 1,5/ 5-ST-3,5	**1738830**	50
FMCD 1,5/ 6-ST-3,5	**1738843**	50
FMCD 1,5/ 7-ST-3,5	**1738856**	50
FMCD 1,5/ 8-ST-3,5	**1738869**	50
FMCD 1,5/ 9-ST-3,5	**1738872**	50
FMCD 1,5/10-ST-3,5	**1738885**	50
FMCD 1,5/11-ST-3,5	**1738898**	50
FMCD 1,5/12-ST-3,5	**1738908**	50
FMCD 1,5/13-ST-3,5	**1738911**	50
FMCD 1,5/14-ST-3,5	**1738924**	50
FMCD 1,5/15-ST-3,5	**1738937**	50
FMCD 1,5/16-ST-3,5	**1738940**	50

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Plug with push-in spring connection



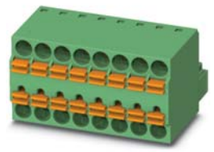
- Very compact front TWIN connection for 1.5 mm²
- Signal distribution up to 8 A directly on device
- Fast conductor connection, thanks to push-in spring connection
- Two connections per position
- Touch connection for voltage testing using a 1 mm Ø test pin
- Versions with and without a screw flange

Notes:

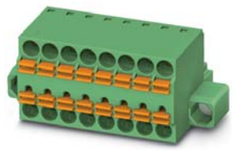
In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 182.

The maximum torque for the screw flange is 0.3 Nm.



With two connections per position

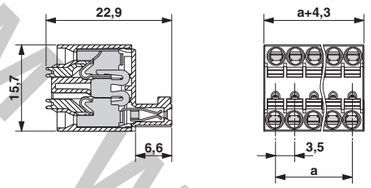


With screw flange

Accessories

For all types	Type	Page
	Marker cards **SK 3,5/2,8**	797
	Screwdriver **SZS 0,4 x 2,5 Order No. 1205037**	
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm² **CRIMPFOX 6 Order No. 1212034**	

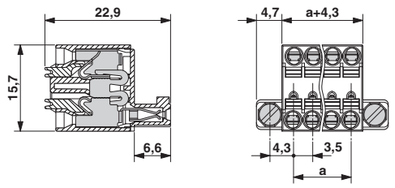
Dimensional drawing



Note derating curves

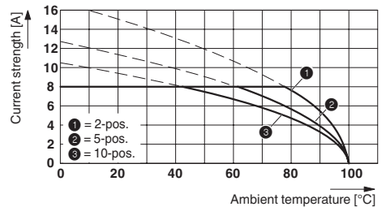
Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 1.5 mm²
Reduction factor = 0.8
Number of positions = see diagram

Dimensional drawing



Representative derating curve

Type: TFMC 1,5/...-ST-3,5 with MCV 1,5/....-G-3,5



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	8 / 1.5		
Rated insulation voltage for pollution degree 2	[V]	160		
Pitch	[mm]	3.5		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 1.5 / 0.2 - 1.5 / 24 - 16		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 1.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 0.75		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	- / -		
Stranded with ferrules without plastic sleeve	[mm²]	-		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	-		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	160	160	320
Rated surge voltage	[kV]	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	-	-
Nominal current	[A]	8	-	-
Connection capacity AWG	AWG	24 - 16	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Stripping length	[mm]	10		
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		

Ordering data

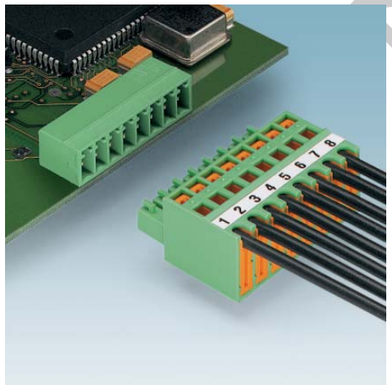
No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		3.5 mm pitch, color: Green		
2	3.50	**TFMC 1,5/ 2-ST-3,5**	**1772618**	50
3	7.00	**TFMC 1,5/ 3-ST-3,5**	**1772621**	50
4	10.50	**TFMC 1,5/ 4-ST-3,5**	**1772634**	50
5	14.00	**TFMC 1,5/ 5-ST-3,5**	**1772647**	50
6	17.50	**TFMC 1,5/ 6-ST-3,5**	**1772650**	50
7	21.00	**TFMC 1,5/ 7-ST-3,5**	**1772663**	50
8	24.50	**TFMC 1,5/ 8-ST-3,5**	**1772676**	50
9	28.00	**TFMC 1,5/ 9-ST-3,5**	**1772689**	50
10	31.50	**TFMC 1,5/10-ST-3,5**	**1772692**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
TFMC 1,5/ 2-STF-3,5	**1772702**	50
TFMC 1,5/ 3-STF-3,5	**1772715**	50
TFMC 1,5/ 4-STF-3,5	**1772728**	50
TFMC 1,5/ 5-STF-3,5	**1772731**	50
TFMC 1,5/ 6-STF-3,5	**1772744**	50
TFMC 1,5/ 7-STF-3,5	**1772757**	50
TFMC 1,5/ 8-STF-3,5	**1772760**	50
TFMC 1,5/ 9-STF-3,5	**1772773**	50
TFMC 1,5/10-STF-3,5	**1772786**	50

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Plug with displacement connection



- Reduced wiring time since pretreatment of the conductor is no longer necessary
- Stranded conductors of 0.34 to 0.5 mm² with PVC or PE insulation
- Connection as per EN 60352-4
- Integrated 1.2 mm Ø test connection
- Versions with and without a screw flange
- User notes and recommendations for the insulation displacement technology can be found on page 22

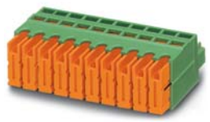
Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

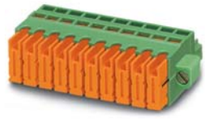
COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 182.

The maximum torque for the screw flange is 0.3 Nm.

¹) Please observe the derating curves. Derating curves of further combination options on request.



Plug with displacement connection

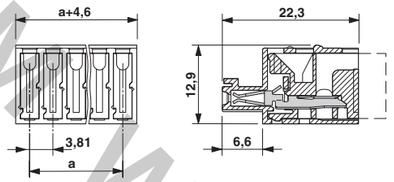


With screw flange

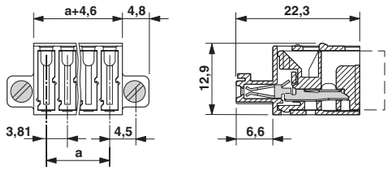
Accessories

For all types	Type	Page
	Marker cards **SK 3,81/2,8**	797
	Screwdriver **SZS 0,4 X 2,0 Order No. 1205202**	

Dimensional drawing



Dimensional drawing

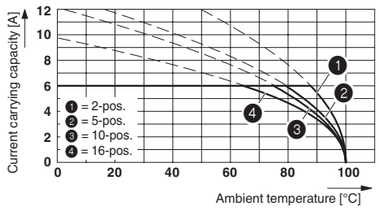


Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 0.5 mm²
Reduction factor = 0.8
Number of positions = see diagram

Representative derating curve

Type: QC 0,5/...-ST-3,81 with MC 1,5/...-G-3,81



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	6¹) / 0.5		
Rated insulation voltage for pollution degree 2	[V]	200		
Pitch	[mm]	3.81		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	- / 0.34 - 0.5 / 22 - 20		
Stranded with ferrules without plastic sleeve	[mm²]	-		
Stranded with ferrules with plastic sleeve	[mm²]	-		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	- / -		
Stranded with ferrules without plastic sleeve	[mm²]	-		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	-		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	200	200	400
Rated surge voltage	[kV]	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	300	-
Nominal current	[A]	6	6	-
Connection capacity AWG	AWG	24 - 20	24 - 20	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		

No. of pos.	Dim. a [mm]
2	3.81
3	7.62
4	11.43
5	15.24
6	19.05
7	22.86
8	26.67
9	30.48
10	34.29
11	38.10
12	41.91
13	45.72
14	49.53
15	53.34
16	57.15

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 3.81 mm, color: Green		
QC 0,5/ 2-ST-3,81	**1897393**	50
QC 0,5/ 3-ST-3,81	**1897403**	50
QC 0,5/ 4-ST-3,81	**1897416**	50
QC 0,5/ 5-ST-3,81	**1897429**	50
QC 0,5/ 6-ST-3,81	**1897432**	50
QC 0,5/ 7-ST-3,81	**1897445**	50
QC 0,5/ 8-ST-3,81	**1897458**	50
QC 0,5/ 9-ST-3,81	**1897461**	50
QC 0,5/10-ST-3,81	**1897474**	50
QC 0,5/11-ST-3,81	**1897487**	50
QC 0,5/12-ST-3,81	**1897490**	50
QC 0,5/13-ST-3,81	**1897500**	50
QC 0,5/14-ST-3,81	**1897513**	50
QC 0,5/15-ST-3,81	**1897526**	50
QC 0,5/16-ST-3,81	**1897539**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 3.81 mm, color: Green		
QC 0,5/ 2-STF-3,81	**1897542**	50
QC 0,5/ 3-STF-3,81	**1897555**	50
QC 0,5/ 4-STF-3,81	**1897568**	50
QC 0,5/ 5-STF-3,81	**1897571**	50
QC 0,5/ 6-STF-3,81	**1897584**	50
QC 0,5/ 7-STF-3,81	**1897597**	50
QC 0,5/ 8-STF-3,81	**1897607**	50
QC 0,5/ 9-STF-3,81	**1897610**	50
QC 0,5/10-STF-3,81	**1897623**	50
QC 0,5/11-STF-3,81	**1897636**	50
QC 0,5/12-STF-3,81	**1897649**	50
QC 0,5/13-STF-3,81	**1897652**	50
QC 0,5/14-STF-3,81	**1897665**	50
QC 0,5/15-STF-3,81	**1897678**	50
QC 0,5/16-STF-3,81	**1897681**	50

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Connectors with crimp connection



- Flat design of the MCC 1 connector range
- Versions with and without a screw flange
- With snap-lock option for pullout aid
- Can be combined with MC 1,5 base strips and IMC 1,5 connectors
- Two different crimp contacts can be used:

MCC-MT 0,2 -0,35
- for conductor cross sections of 0.2 to 0.34 mm² (AWG 24-22) and currents of 4 to 5 A

MCC-MT 0,5-1,0
- for conductor cross sections of 0.5 to 1.0 mm² (AWG 20-18) and currents of 6 to 8 A

Notes:
In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
COMBICON select You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 182.
For larger numbers of positions up to 20-pos. and additional technical data, visit **www.phoenixcontact.com**.
The maximum torque for the screw flange is 0.3 Nm.
1) Please observe the derating curves. Derating curves of further combination options on request.

Accessories

For all types	Type	Page
	Module female contact **MCC-MT...**	827
	Pullout aid **STZ...-PCC 4-7,62**	828
	Crimping pliers for 0.14 to 1.5 mm² **CRIMPFOX-1,6-ER-1,50-GH** **Order No.** **1772793**	
	Screwdriver **SZF 0-0,4 x 2,5** **Order No.** **1204504**	

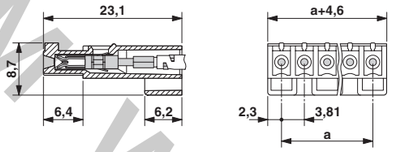


Connectors with crimp connection

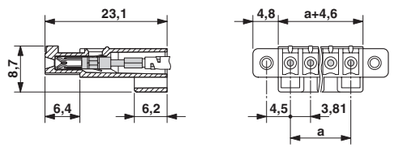


With screw flange

Dimensional drawing



Dimensional drawing

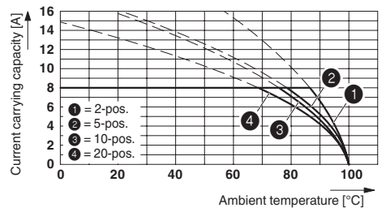


Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 1 mm²
Reduction factor = 0.8
Number of positions = see diagram

Representative derating curve

Type: MCC 1/...-ST-3,81 with MC 1,5/...-G-3,81



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	8¹) / 1		
Rated insulation voltage for pollution degree 2	[V]	160		
Pitch	[mm]	3.81		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	- / 0.2 - 1 / 24 - 18		
Stranded with ferrules without plastic sleeve	[mm²]	-		
Stranded with ferrules with plastic sleeve	[mm²]	-		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	- / -		
Stranded with ferrules without plastic sleeve	[mm²]	-		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	-		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	160	160	320
Rated surge voltage	[kV]	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	8	-	8
Connection capacity AWG	AWG	20 - 18	-	20 - 18
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		

No. of pos.	Dim. a [mm]
2	3.81
3	7.62
4	11.43
5	15.24
6	19.05
7	22.86
8	26.67
9	30.48
10	34.29
11	38.10
12	41.91
13	45.72
14	49.53
15	53.34
16	57.15

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 3.81 mm, color: Green		
MCC 1/ 2-STZ-3,81	**1852176**	50
MCC 1/ 3-STZ-3,81	**1852189**	50
MCC 1/ 4-STZ-3,81	**1852192**	50
MCC 1/ 5-STZ-3,81	**1852202**	50
MCC 1/ 6-STZ-3,81	**1852215**	50
MCC 1/ 7-STZ-3,81	**1852228**	50
MCC 1/ 8-STZ-3,81	**1852231**	50
MCC 1/ 9-STZ-3,81	**1852244**	50
MCC 1/10-STZ-3,81	**1852257**	50
MCC 1/11-STZ-3,81	**1852260**	50
MCC 1/12-STZ-3,81	**1852273**	50
MCC 1/13-STZ-3,81	**1852286**	50
MCC 1/14-STZ-3,81	**1852299**	50
MCC 1/15-STZ-3,81	**1852309**	50
MCC 1/16-STZ-3,81	**1852312**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 3.81 mm, color: Green		
MCC 1/ 2-STZF-3,81	**1852367**	50
MCC 1/ 3-STZF-3,81	**1852370**	50
MCC 1/ 4-STZF-3,81	**1852383**	50
MCC 1/ 5-STZF-3,81	**1852396**	50
MCC 1/ 6-STZF-3,81	**1852406**	50
MCC 1/ 7-STZF-3,81	**1852419**	50
MCC 1/ 8-STZF-3,81	**1852422**	50
MCC 1/ 9-STZF-3,81	**1852435**	50
MCC 1/10-STZF-3,81	**1852448**	50
MCC 1/11-STZF-3,81	**1852451**	50
MCC 1/12-STZF-3,81	**1852464**	50
MCC 1/13-STZF-3,81	**1852477**	50
MCC 1/14-STZF-3,81	**1852480**	50
MCC 1/15-STZF-3,81	**1852493**	50
MCC 1/16-STZF-3,81	**1852503**	50

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Single-level header for reflow processes



- High-precision pin strips for increased tolerance requirements
- Position tolerance of pins less than ±0.1 mm around zero position
- Short 1.4 mm pin, no overhang in 1.6 mm PCBs for two-sided mounting
- Tape-on-reel packing according to IEC 60286-3 for automated mounting
- 330 mm roll diameter
- Tape width corresponds to order designation, e.g., R32 = 32 mm tape width
- You can find user notes and recommendations for THR procedure on page 27

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 182.

CP-MSTB may only be used after reflow soldering. CP-MSTB NAT HT may also be used prior to reflow soldering.

Pick and place pads for taped THR articles usually protrude beyond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of tape reels and place pads can be found online at **www.phoenixcontact.net/products**.

Accessories

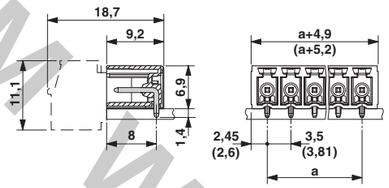
For all types	Type	Page
	Keying profile **CP-MSTB** **Order No. 1734634**	38
	Marker cards **SK 3,81/2,8**	797



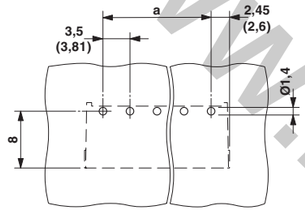
N

Pin length 1.4 mm, taped headers, plug-in direction parallel to the PCB

Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current	[A]	8		
Rated insulation voltage for pollution degree 2	[V]	160		
Pitch	[mm]	3.5		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	160	160	250
Rated surge voltage	[kV]	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	8	-	8
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		LCP / IIIa		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.4 / 0,8 x 0,8 mm		

Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		Pitch 3.5 mm, color: Black		
2	3.50	MC 1,5/ 2-G-3,5 P14 THRR32	1788958	470
3	7.00	MC 1,5/ 3-G-3,5 P14 THRR32	1788974	470
4	10.50	MC 1,5/ 4-G-3,5 P14 THRR32	1788990	470
5	14.00	MC 1,5/ 5-G-3,5 P14 THRR56	1789012	470
6	17.50	MC 1,5/ 6-G-3,5 P14 THRR56	1789038	470
7	21.00	MC 1,5/ 7-G-3,5 P14 THRR56	1789054	470
8	24.50	MC 1,5/ 8-G-3,5 P14 THRR56	1789070	470
9	28.00	MC 1,5/ 9-G-3,5 P14 THRR56	1789096	470
10	31.50	MC 1,5/10-G-3,5 P14 THRR56	1789119	470
11	35.00	MC 1,5/11-G-3,5 P14 THRR56	1789135	470
12	38.50	MC 1,5/12-G-3,5 P14 THRR72	1789151	380
		3.81 mm pitch, color: Black		
2	3.81	MC 1,5/ 2-G-3,81 P14 THRR32	1722095	470
3	7.62	MC 1,5/ 3-G-3,81 P14 THRR32	1722105	470
4	11.43	MC 1,5/ 4-G-3,81 P14 THRR32	1722118	470
5	15.24	MC 1,5/ 5-G-3,81 P14 THRR56	1702662	470
6	19.05	MC 1,5/ 6-G-3,81 P14 THRR56	1702663	470
7	22.86	MC 1,5/ 7-G-3,81 P14 THRR56	1702664	470
8	26.67	MC 1,5/ 8-G-3,81 P14 THRR56	1702665	470
9	30.48	MC 1,5/ 9-G-3,81 P14 THRR56	1702666	470
10	34.29	MC 1,5/10-G-3,81 P14 THRR56	1702667	470
11	38.10	MC 1,5/11-G-3,81 P14 THRR56	1702668	470
12	41.91	MC 1,5/12-G-3,81 P14 THRR72	1702669	380

Mini plug-in connectors with 3.5/3.81 and 5.08 mm pitch

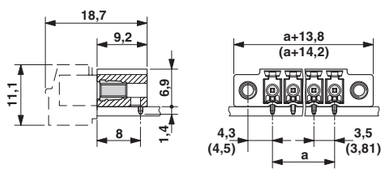
MINI COMBICON plug-in connectors, pitches 3.5 or 3.81 and 5.08 mm



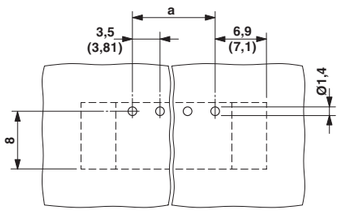
N

Pin length 1.4 mm, with threaded flange, taped headers, plug-in direction parallel to the PCB

Dimensional drawing



Drilling diagram



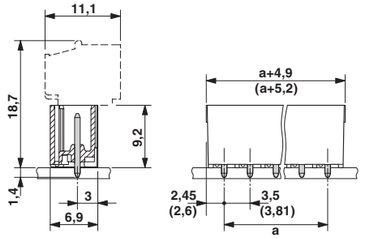
Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 3.5 mm, color: Black		
MC 1,5/ 2-GF-3,5 P14 THRR32	1789614	470
MC 1,5/ 3-GF-3,5 P14 THRR56	1789630	470
MC 1,5/ 4-GF-3,5 P14 THRR56	1789656	470
MC 1,5/ 5-GF-3,5 P14 THRR56	1789672	470
MC 1,5/ 6-GF-3,5 P14 THRR56	1789698	470
MC 1,5/ 7-GF-3,5 P14 THRR56	1789711	470
MC 1,5/ 8-GF-3,5 P14 THRR56	1789737	470
MC 1,5/ 9-GF-3,5 P14 THRR72	1789753	470
MC 1,5/10-GF-3,5 P14 THRR72	1789779	380
MC 1,5/11-GF-3,5 P14 THRR72	1789795	380
MC 1,5/12-GF-3,5 P14 THRR72	1789818	380
3.81 mm pitch, color: Black		
MC 1,5/ 2-GF-3,81 P14 THRR32	1782132	470
MC 1,5/ 3-GF-3,81 P14 THRR56	1782145	470
MC 1,5/ 4-GF-3,81 P14 THRR56	1782158	470
MC 1,5/ 5-GF-3,81 P14 THRR56	1782161	470
MC 1,5/ 6-GF-3,81 P14 THRR56	1782174	470
MC 1,5/ 7-GF-3,81 P14 THRR56	1782187	470
MC 1,5/ 8-GF-3,81 P14 THRR56	1782190	470
MC 1,5/ 9-GF-3,81 P14 THRR72	1782200	470
MC 1,5/10-GF-3,81 P14 THRR72	1782213	380
MC 1,5/11-GF-3,81 P14 THRR72	1782226	380
MC 1,5/12-GF-3,81 P14 THRR72	1782239	380

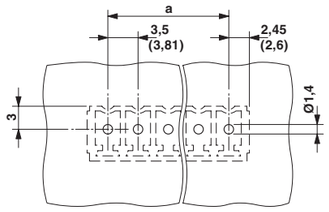


1.4 mm pin length, taped headers, plug-in direction vertical to the PCB

Dimensional drawing



Drilling diagram



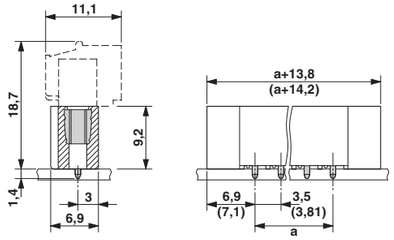
Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 3.5 mm, color: Black		
MCV 1,5/ 2-G-3,5 P14 THRR32	1780202	200
MCV 1,5/ 3-G-3,5 P14 THRR32	1780228	200
MCV 1,5/ 4-G-3,5 P14 THRR32	1780244	200
MCV 1,5/ 5-G-3,5 P14 THRR56	1780260	200
MCV 1,5/ 6-G-3,5 P14 THRR56	1780286	200
MCV 1,5/ 7-G-3,5 P14 THRR56	1780309	200
MCV 1,5/ 8-G-3,5 P14 THRR56	1780325	200
MCV 1,5/ 9-G-3,5 P14 THRR56	1780341	200
MCV 1,5/10-G-3,5 P14 THRR56	1780367	200
MCV 1,5/11-G-3,5 P14 THRR56	1780383	200
MCV 1,5/12-G-3,5 P14 THRR72	1780406	180
3.81 mm pitch, color: Black		
MCV 1,5/ 2-G-3,81 P14 THR R32	1755473	200
MCV 1,5/ 3-G-3,81 P14 THR R32	1728374	200
MCV 1,5/ 4-G-3,81 P14 THR R32	1728387	200
MCV 1,5/ 8-G-3,81 P14 THRR56	1754526	200
MCV 1,5/10-G-3,81 P14 THRR56	1754539	200

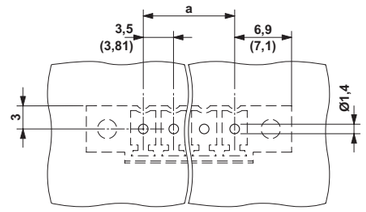


1.4 mm pin length, with threaded flange, taped headers, plug-in direction vertical to the PCB

Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 3.5 mm, color: Black		
MCV 1,5/ 2-GF-3,5 P14 THRR32	1779941	200
MCV 1,5/ 3-GF-3,5 P14 THRR56	1779967	200
MCV 1,5/ 4-GF-3,5 P14 THRR56	1779983	200
MCV 1,5/ 5-GF-3,5 P14 THRR56	1780008	200
MCV 1,5/ 6-GF-3,5 P14 THRR56	1780024	200
MCV 1,5/ 7-GF-3,5 P14 THRR56	1780040	200
MCV 1,5/ 8-GF-3,5 P14 THRR56	1780066	200
MCV 1,5/ 9-GF-3,5 P14 THRR56	1780082	200
MCV 1,5/10-GF-3,5 P14 THRR72	1780105	180
MCV 1,5/11-GF-3,5 P14 THRR72	1780147	180
MCV 1,5/12-GF-3,5 P14 THRR72	1780189	180
MCV 1,5/10-GF-3,81 P14 THRR72	1763931	140

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Single-level header for reflow processes



- High-precision pin strips for increased tolerance requirements
- Position tolerance of pins less than ±0.1 mm around zero position
- Short 2.0 mm pin for reduced overhang in 1.6 mm PCBs
- Tape-on-reel packing according to IEC 60286-3 for automated mounting
- 330 mm roll diameter
- Tape width corresponds to order designation, e.g., R32 = 32 mm tape width
- You can find user notes and recommendations for THR procedure on page 27

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 182.

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Pick and place pads for taped THR articles usually protrude beyond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of tape reels and place pads can be found online at **www.phoenixcontact.net/products**.

Accessories

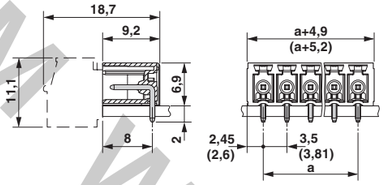
For all types	Type	Page
	Keying profile **CP-MSTB** **Order No. 1734634**	38
	Marker cards **SK 3,5/2,8 or SK 3,81/2,8**	797



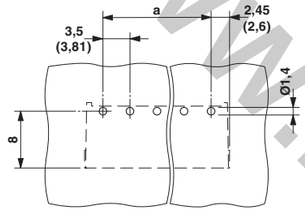
N

**Pin length 2.0 mm,
Taped headers,
Plug-in direction parallel to the PCB**

Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current	[A]	8		
Rated insulation voltage for pollution degree 2	[V]	160		
Pitch	[mm]	3.5		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	160	160	250
Rated surge voltage	[kV]	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	8	-	8
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		LCP / IIIa		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.4 / 0,8 x 0,8 mm		

Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		Pitch 3.5 mm, color: Black		
2	3.50	MC 1,5/ 2-G-3,5 P20 THRR32	1788738	470
3	7.00	MC 1,5/ 3-G-3,5 P20 THRR32	1788754	470
4	10.50	MC 1,5/ 4-G-3,5 P20 THRR32	1788770	470
5	14.00	MC 1,5/ 5-G-3,5 P20 THRR56	1788796	470
6	17.50	MC 1,5/ 6-G-3,5 P20 THRR56	1788819	470
7	21.00	MC 1,5/ 7-G-3,5 P20 THRR56	1788835	470
8	24.50	MC 1,5/ 8-G-3,5 P20 THRR56	1788851	470
9	28.00	MC 1,5/ 9-G-3,5 P20 THRR56	1788877	470
10	31.50	MC 1,5/10-G-3,5 P20 THRR56	1788893	470
11	35.00	MC 1,5/11-G-3,5 P20 THRR56	1788916	470
12	38.50	MC 1,5/12-G-3,5 P20 THRR72	1788932	380
		3.81 mm pitch, color: Black		
2	3.81	MC 1,5/ 2-G-3,81 P20 THRR32	1782572	470
3	7.62	MC 1,5/ 3-G-3,81 P20 THRR32	1782585	470
4	11.43	MC 1,5/ 4-G-3,81 P20 THRR32	1782598	470
5	15.24	MC 1,5/ 5-G-3,81 P20 THRR56	1782608	470
6	19.05	MC 1,5/ 6-G-3,81 P20 THRR56	1782611	470
7	22.86	MC 1,5/ 7-G-3,81 P20 THRR56	1782624	470
8	26.67	MC 1,5/ 8-G-3,81 P20 THRR56	1782637	470
9	30.48	MC 1,5/ 9-G-3,81 P20 THRR56	1782640	470
10	34.29	MC 1,5/10-G-3,81 P20 THRR56	1782653	470
11	38.10	MC 1,5/11-G-3,81 P20 THRR56	1782666	470
12	41.91	MC 1,5/12-G-3,81 P20 THRR72	1782679	380

Mini plug-in connectors with 3.5/3.81 and 5.08 mm pitch

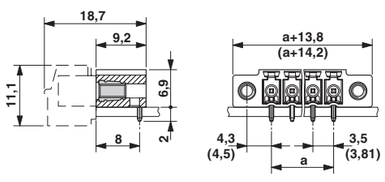
MINI COMBICON plug-in connectors, pitches 3.5 or 3.81 and 5.08 mm



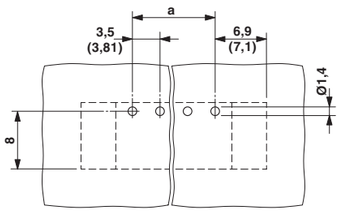
N

**Pin length 2.0 mm, with threaded flange,
Taped headers,
Plug-in direction parallel to the PCB**

Dimensional drawing



Drilling diagram



Ordering data

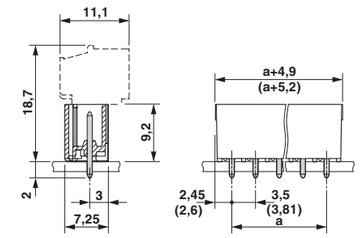
Type	Order No.	Pcs. / Pkt.
Pitch 3.5 mm, color: Black		
MC 1,5/ 2-GF-3,5 P20 THRR32	1789397	470
MC 1,5/ 3-GF-3,5 P20 THRR56	1789410	470
MC 1,5/ 4-GF-3,5 P20 THRR56	1789436	470
MC 1,5/ 5-GF-3,5 P20 THRR56	1789452	470
MC 1,5/ 6-GF-3,5 P20 THRR56	1789478	470
MC 1,5/ 7-GF-3,5 P20 THRR56	1789494	470
MC 1,5/ 8-GF-3,5 P20 THRR56	1789517	470
MC 1,5/ 9-GF-3,5 P20 THRR72	1789533	470
MC 1,5/10-GF-3,5 P20 THRR72	1789559	380
MC 1,5/11-GF-3,5 P20 THRR72	1789575	380
MC 1,5/12-GF-3,5 P20 THRR72	1789591	380
3.81 mm pitch, color: Black		
MC 1,5/ 2-GF-3,81 P20 THRR32	1782022	470
MC 1,5/ 3-GF-3,81 P20 THRR56	1782035	470
MC 1,5/ 4-GF-3,81 P20 THRR56	1782048	470
MC 1,5/ 5-GF-3,81 P20 THRR56	1782051	470
MC 1,5/ 6-GF-3,81 P20 THRR56	1782064	470
MC 1,5/ 7-GF-3,81 P20 THRR56	1782077	470
MC 1,5/ 8-GF-3,81 P20 THRR56	1782080	470
MC 1,5/ 9-GF-3,81 P20 THRR72	1782093	470
MC 1,5/10-GF-3,81 P20 THRR72	1782103	380
MC 1,5/11-GF-3,81 P20 THRR72	1782116	380
MC 1,5/12-GF-3,81 P20 THRR72	1782129	380



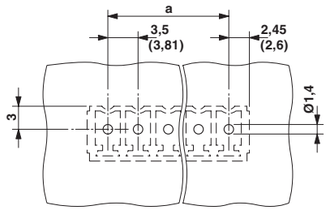
N

**Pin length 2.0 mm,
Taped headers,
Plug-in direction vertical to the PCB**

Dimensional drawing



Drilling diagram



Ordering data

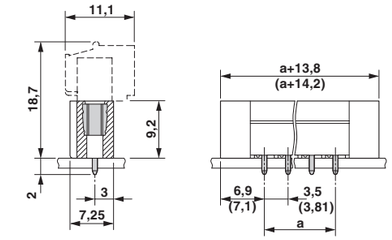
Type	Order No.	Pcs. / Pkt.
Pitch 3.5 mm, color: Black		
MCV 1,5/ 2-G-3,5 P20 THRR32	1780888	200
MCV 1,5/ 3-G-3,5 P20 THRR32	1780901	200
MCV 1,5/ 4-G-3,5 P20 THRR32	1780927	200
MCV 1,5/ 5-G-3,5 P20 THRR56	1780943	200
MCV 1,5/ 6-G-3,5 P20 THRR56	1780969	200
MCV 1,5/ 7-G-3,5 P20 THRR56	1780985	200
MCV 1,5/ 8-G-3,5 P20 THRR56	1781007	200
MCV 1,5/ 9-G-3,5 P20 THRR56	1781023	200
MCV 1,5/10-G-3,5 P20 THRR56	1781049	200
MCV 1,5/11-G-3,5 P20 THRR56	1781065	200
MCV 1,5/12-G-3,5 P20 THRR72	1781081	180
3.81 mm pitch, color: Black		
MCV 1,5/ 2-G-3,81 P20 THRR32	1825665	200
MCV 1,5/ 3-G-3,81 P20 THRR32	1825678	200
MCV 1,5/ 4-G-3,81 P20 THRR32	1825681	200
MCV 1,5/ 5-G-3,81 P20 THRR56	1825694	200
MCV 1,5/ 6-G-3,81 P20 THRR56	1825704	200
MCV 1,5/ 7-G-3,81 P20 THRR56	1825717	200
MCV 1,5/ 8-G-3,81 P20 THRR56	1825720	200
MCV 1,5/ 9-G-3,81 P20 THRR56	1825733	200
MCV 1,5/10-G-3,81 P20 THRR56	1825746	200
MCV 1,5/11-G-3,81 P20 THRR72	1825759	200
MCV 1,5/12-G-3,81 P20 THRR72	1825762	180



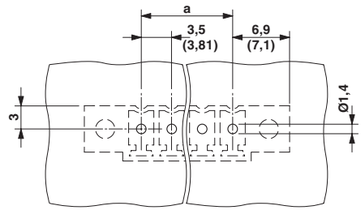
N

**Pin length 2.0 mm, with threaded flange,
Taped headers,
Plug-in direction vertical to the PCB**

Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 3.5 mm, color: Black		
MCV 1,5/ 2-GF-3,5 P20 THRR32	1780668	200
MCV 1,5/ 3-GF-3,5 P20 THRR56	1780684	200
MCV 1,5/ 4-GF-3,5 P20 THRR56	1780707	200
MCV 1,5/ 5-GF-3,5 P20 THRR56	1780723	200
MCV 1,5/ 6-GF-3,5 P20 THRR56	1780749	200
MCV 1,5/ 7-GF-3,5 P20 THRR56	1780765	200
MCV 1,5/ 8-GF-3,5 P20 THRR56	1780781	200
MCV 1,5/ 9-GF-3,5 P20 THRR56	1780804	200
MCV 1,5/10-GF-3,5 P20 THRR72	1780820	180
MCV 1,5/11-GF-3,5 P20 THRR72	1780846	180
MCV 1,5/12-GF-3,5 P20 THRR72	1780862	180
3.81 mm pitch, color: Black		
MCV 1,5/ 2-GF-3,81 P20 THRR32	1825775	200
MCV 1,5/ 3-GF-3,81 P20 THRR56	1825788	200
MCV 1,5/ 4-GF-3,81 P20 THRR56	1825791	200
MCV 1,5/ 5-GF-3,81 P20 THRR56	1825801	200
MCV 1,5/ 6-GF-3,81 P20 THRR56	1825814	200
MCV 1,5/ 7-GF-3,81 P20 THRR56	1825827	200
MCV 1,5/ 8-GF-3,81 P20 THRR56	1825830	200
MCV 1,5/ 9-GF-3,81 P20 THRR72	1825843	200
MCV 1,5/10-GF-3,81 P20 THRR72	1825856	180
MCV 1,5/11-GF-3,81 P20 THRR72	1825869	180
MCV 1,5/12-GF-3,81 P20 THRR72	1825872	180

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Single-level header for reflow processes



- High-precision pin strips for increased tolerance requirements
- Position tolerance of pins less than ±0.1 mm around zero position
- 2.6 mm pin
- Tape-on-reel packing according to IEC 60286-3 for automated mounting
- 330 mm roll diameter
- Tape width corresponds to order designation, e.g., R32 = 32 mm tape width
- You can find user notes and recommendations for THR procedure on page 27

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 182.

CP-MSTB may only be used after reflow soldering. CP-MSTB NAT HT may also be used prior to reflow soldering.

Pick and place pads for taped THR articles usually protrude beyond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of tape reels and place pads can be found online at **www.phoenixcontact.net/products**.

Accessories

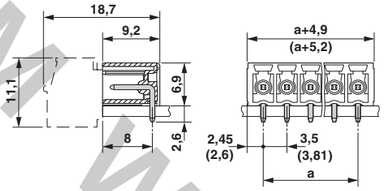
For all types	Type	Page
	Keying profile **CP-MSTB Order No. 1734634**	38
	Marker cards **SK 3,5/2,8 or SK 3,81/2,8**	797



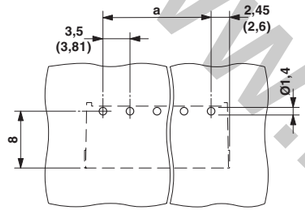
Pin length 2.6 mm, taped headers, plug-in direction parallel to the PCB

N

Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current	[A]	8		
Rated insulation voltage for pollution degree 2	[V]	160		
Pitch	[mm]	3.5 / 3.81		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	160	160	250
Rated surge voltage	[kV]	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	8	-	8
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		LCP / IIIa		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.4 / 0,8 x 0,8 mm		

Ordering data

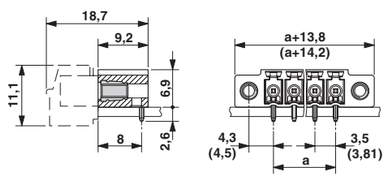
No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		Pitch 3.5 mm, color: Black		
2	3.50	**MC 1,5/ 2-G-3,5 P26 THRR32**	**1788518**	470
3	7.00	**MC 1,5/ 3-G-3,5 P26 THRR32**	**1788534**	470
4	10.50	**MC 1,5/ 4-G-3,5 P26 THRR32**	**1788550**	470
5	14.00	**MC 1,5/ 5-G-3,5 P26 THRR56**	**1788576**	470
6	17.50	**MC 1,5/ 6-G-3,5 P26 THRR56**	**1788592**	470
7	21.00	**MC 1,5/ 7-G-3,5 P26 THRR56**	**1788615**	470
8	24.50	**MC 1,5/ 8-G-3,5 P26 THRR56**	**1788631**	470
9	28.00	**MC 1,5/ 9-G-3,5 P26 THRR56**	**1788657**	470
10	31.50	**MC 1,5/10-G-3,5 P26 THRR56**	**1788673**	470
11	35.00	**MC 1,5/11-G-3,5 P26 THRR56**	**1788699**	470
12	38.50	**MC 1,5/12-G-3,5 P26 THRR72**	**1788712**	380
		Pitch 3.5 mm, color: Black		
2	3.81	**MC 1,5/ 2-G-3,81 P26 THRR32**	**1782462**	470
3	7.62	**MC 1,5/ 3-G-3,81 P26 THRR32**	**1782475**	470
4	11.43	**MC 1,5/ 4-G-3,81 P26 THRR32**	**1782488**	470
5	15.24	**MC 1,5/ 5-G-3,81 P26 THRR56**	**1782491**	470
6	19.05	**MC 1,5/ 6-G-3,81 P26 THRR56**	**1782501**	470
7	22.86	**MC 1,5/ 7-G-3,81 P26 THRR56**	**1782514**	470
8	26.67	**MC 1,5/ 8-G-3,81 P26 THRR56**	**1782527**	470
9	30.48	**MC 1,5/ 9-G-3,81 P26 THRR56**	**1782530**	470
10	34.29	**MC 1,5/10-G-3,81 P26 THRR56**	**1782543**	470
11	38.10	**MC 1,5/11-G-3,81 P26 THRR56**	**1782556**	470
12	41.91	**MC 1,5/12-G-3,81 P26 THRR72**	**1782569**	380



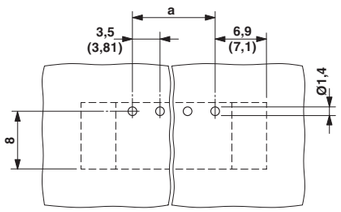
Pin length 2.6 mm, with threaded flange, taped headers, plug-in direction parallel to the PCB

N

Dimensional drawing



Drilling diagram



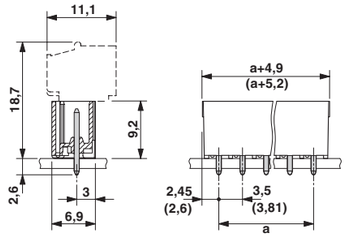
Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 3.5 mm, color: Black		
MC 1,5/ 2-GF-3,5 P26 THRR32	**1789177**	470
MC 1,5/ 3-GF-3,5 P26 THRR56	**1789193**	470
MC 1,5/ 4-GF-3,5 P26 THRR56	**1789216**	470
MC 1,5/ 5-GF-3,5 P26 THRR56	**1789232**	470
MC 1,5/ 6-GF-3,5 P26 THRR56	**1789258**	470
MC 1,5/ 7-GF-3,5 P26 THRR56	**1789274**	470
MC 1,5/ 8-GF-3,5 P26 THRR56	**1789290**	470
MC 1,5/ 9-GF-3,5 P26 THRR72	**1789313**	470
MC 1,5/10-GF-3,5 P26 THRR72	**1789339**	380
MC 1,5/11-GF-3,5 P26 THRR72	**1789355**	380
MC 1,5/12-GF-3,5 P26 THRR72	**1789371**	380
Pitch 3.5 mm, color: Black		
MC 1,5/ 2-GF-3,81 P26 THRR32	**1781913**	470
MC 1,5/ 3-GF-3,81 P26 THRR56	**1781926**	470
MC 1,5/ 4-GF-3,81 P26 THRR56	**1781939**	470
MC 1,5/ 5-GF-3,81 P26 THRR56	**1781942**	470
MC 1,5/ 6-GF-3,81 P26 THRR56	**1781955**	470
MC 1,5/ 7-GF-3,81 P26 THRR56	**1781968**	470
MC 1,5/ 8-GF-3,81 P26 THRR56	**1781971**	470
MC 1,5/ 9-GF-3,81 P26 THRR72	**1781984**	470
MC 1,5/10-GF-3,81 P26 THRR72	**1781997**	380
MC 1,5/11-GF-3,81 P26 THRR72	**1782006**	380
MC 1,5/12-GF-3,81 P26 THRR72	**1782019**	380

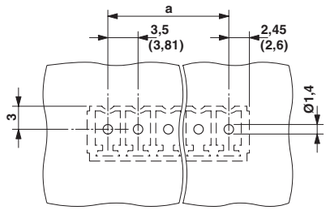


2.6 mm pin length, taped headers, plug-in direction vertical to the PCB

Dimensional drawing



Drilling diagram



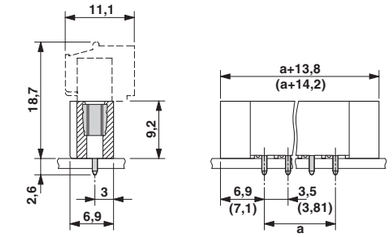
Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 3.5 mm, color: Black		
MCV 1,5/ 2-G-3,5 P26 THRR32	**1779378**	200
MCV 1,5/ 3-G-3,5 P26 THRR32	**1779394**	200
MCV 1,5/ 4-G-3,5 P26 THRR32	**1779417**	200
MCV 1,5/ 5-G-3,5 P26 THRR56	**1779433**	200
MCV 1,5/ 6-G-3,5 P26 THRR56	**1779459**	200
MCV 1,5/ 7-G-3,5 P26 THRR56	**1779475**	200
MCV 1,5/ 8-G-3,5 P26 THRR56	**1779491**	200
MCV 1,5/ 9-G-3,5 P26 THRR56	**1779514**	200
MCV 1,5/10-G-3,5 P26 THRR56	**1779530**	200
MCV 1,5/11-G-3,5 P26 THRR56	**1779899**	200
MCV 1,5/12-G-3,5 P26 THRR72	**1779572**	180
Pitch 3.5 mm, color: Black		
MCV 1,5/ 2-G-3,81 P26 THRR32	**1713554**	200
MCV 1,5/ 3-G-3,81 P26 THRR32	**1712843**	200
MCV 1,5/ 4-G-3,81 P26 THRR32	**1712872**	200
MCV 1,5/ 5-G-3,81 P26 THRR56	**1712898**	200
MCV 1,5/ 6-G-3,81 P26 THRR56	**1712911**	200
MCV 1,5/ 7-G-3,81 P26 THRR56	**1712937**	200
MCV 1,5/ 8-G-3,81 P26 THRR56	**1712940**	200
MCV 1,5/ 9-G-3,81 P26 THRR56	**1713567**	200
MCV 1,5/10-G-3,81 P26 THRR56	**1712966**	200
MCV 1,5/11-G-3,81 P26 THRR72	**1714003**	180
MCV 1,5/12-G-3,81 P26 THRR72	**1712982**	200

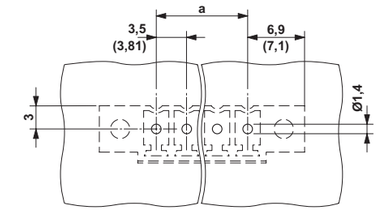


2.6 mm pin length, with threaded flange, taped headers, plug-in direction vertical to the PCB

Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 3.5 mm, color: Black		
MCV 1,5/ 2-GF-3,5 P26 THRR32	**1779077**	200
MCV 1,5/ 3-GF-3,5 P26 THRR56	**1779093**	200
MCV 1,5/ 4-GF-3,5 P26 THRR56	**1779116**	200
MCV 1,5/ 5-GF-3,5 P26 THRR56	**1779132**	200
MCV 1,5/ 6-GF-3,5 P26 THRR56	**1779158**	200
MCV 1,5/ 7-GF-3,5 P26 THRR56	**1779174**	200
MCV 1,5/ 8-GF-3,5 P26 THRR56	**1779190**	200
MCV 1,5/ 9-GF-3,5 P26 THRR56	**1779213**	200
MCV 1,5/10-GF-3,5 P26 THRR72	**1779239**	180
MCV 1,5/11-GF-3,5 P26 THRR72	**1780121**	180
MCV 1,5/12-GF-3,5 P26 THRR72	**1780163**	180
Pitch 3.5 mm, color: Black		
MCV 1,5/ 2-GF-3,81 P26 THRR32	**1713347**	200
MCV 1,5/ 3-GF-3,81 P26 THRR56	**1713350**	200
MCV 1,5/ 4-GF-3,81 P26 THRR56	**1713363**	200
MCV 1,5/ 5-GF-3,81 P26 THRR56	**1713376**	200
MCV 1,5/ 6-GF-3,81 P26 THRR56	**1713389**	200
MCV 1,5/ 7-GF-3,81 P26 THRR56	**1713392**	200
MCV 1,5/ 8-GF-3,81 P26 THRR56	**1713402**	200
MCV 1,5/ 9-GF-3,81 P26 THRR72	**1713415**	180
MCV 1,5/10-GF-3,81 P26 THRR72	**1713428**	200
MCV 1,5/11-GF-3,81 P26 THRR72	**1713431**	200
MCV 1,5/12-GF-3,81 P26 THRR72	**1713444**	200

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Single-level header for reflow processes



- High-precision pin strips for increased tolerance requirements
- Position tolerance of pins less than ±0.1 mm around zero position
- Short 1.4 mm pin, no overhang in 1.6 mm PCBs for two-sided mounting
- Box packaging
- You can find user notes and recommendations for THR procedure on page 27

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 182.

CP-MSTB may only be used after reflow soldering. CP-MSTB NAT HT may also be used prior to reflow soldering.

Dimensional drawings of the free space for solder paste, the tape, and pick-and-place pads can be found online at **www.phoenixcontact.net/products**.

Accessories

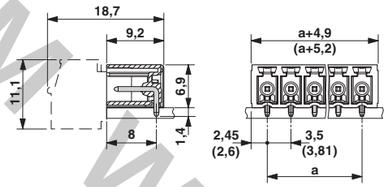
For all types	Type	Page
	Keying profile **CP-MSTB** **Order No. 1734634**	38
	Marker cards **SK 3,5/2,8 or SK 3,81/2,8**	797

N

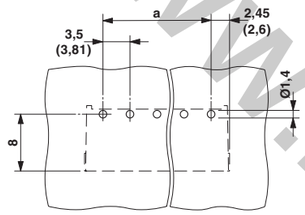


1.4 mm pin length, box-packaged headers, plug-in direction parallel to the PCB

Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current	[A]	8		
Rated insulation voltage for pollution degree 2	[V]	160		
Pitch	[mm]	3.5		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	160	160	250
Rated surge voltage	[kV]	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	8	-	8
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		LCP / IIIa		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.4 / 0,8 x 0,8 mm		

Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		Pitch 3.5 mm, color: Black		
2	3.50	**MC 1,5/ 2-G-3,5 P14 THR**	**1788945**	50
3	7.00	**MC 1,5/ 3-G-3,5 P14 THR**	**1788961**	50
4	10.50	**MC 1,5/ 4-G-3,5 P14 THR**	**1788987**	50
5	14.00	**MC 1,5/ 5-G-3,5 P14 THR**	**1789009**	50
6	17.50	**MC 1,5/ 6-G-3,5 P14 THR**	**1789025**	50
7	21.00	**MC 1,5/ 7-G-3,5 P14 THR**	**1789041**	50
8	24.50	**MC 1,5/ 8-G-3,5 P14 THR**	**1789067**	50
9	28.00	**MC 1,5/ 9-G-3,5 P14 THR**	**1789083**	50
10	31.50	**MC 1,5/10-G-3,5 P14 THR**	**1789106**	50
11	35.00	**MC 1,5/11-G-3,5 P14 THR**	**1789122**	50
12	38.50	**MC 1,5/12-G-3,5 P14 THR**	**1789148**	50
		3.81 mm pitch, color: Black		
2	3.81	**MC 1,5/ 2-G-3,81 P14 THR**	**1782352**	100
3	7.62	**MC 1,5/ 3-G-3,81 P14 THR**	**1782365**	100
4	11.43	**MC 1,5/ 4-G-3,81 P14 THR**	**1782378**	100
5	15.24	**MC 1,5/ 5-G-3,81 P14 THR**	**1782381**	50
6	19.05	**MC 1,5/ 6-G-3,81 P14 THR**	**1782394**	50
7	22.86	**MC 1,5/ 7-G-3,81 P14 THR**	**1782404**	50
8	26.67	**MC 1,5/ 8-G-3,81 P14 THR**	**1782417**	50
9	30.48	**MC 1,5/ 9-G-3,81 P14 THR**	**1782420**	50
10	34.29	**MC 1,5/10-G-3,81 P14 THR**	**1782433**	50
11	38.10	**MC 1,5/11-G-3,81 P14 THR**	**1782446**	50
12	41.91	**MC 1,5/12-G-3,81 P14 THR**	**1782459**	50

Mini plug-in connectors with 3.5/3.81 and 5.08 mm pitch

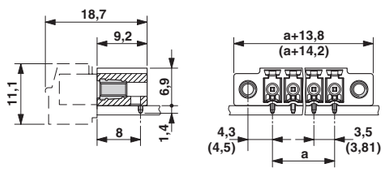
MINI COMBICON plug-in connectors, pitches 3.5 or 3.81 and 5.08 mm

N

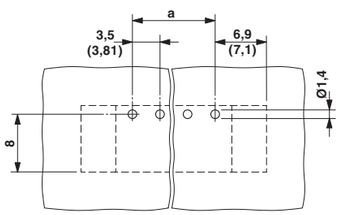


Pin length of 1.4 mm, with threaded flange Box-packaged headers Plug-in direction parallel to the PCB

Dimensional drawing



Drilling diagram

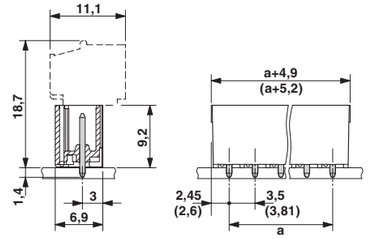


Ordering data

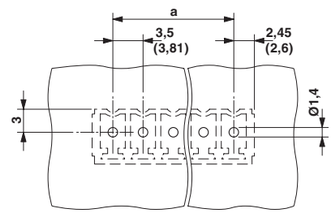
Type	Order No.	Pcs. / Pkt.
Pitch 3.5 mm, color: Black		
MC 1,5/ 2-GF-3,5 P14 THR	**1789601**	50
MC 1,5/ 3-GF-3,5 P14 THR	**1789627**	50
MC 1,5/ 4-GF-3,5 P14 THR	**1789643**	50
MC 1,5/ 5-GF-3,5 P14 THR	**1789669**	50
MC 1,5/ 6-GF-3,5 P14 THR	**1789685**	50
MC 1,5/ 7-GF-3,5 P14 THR	**1789708**	50
MC 1,5/ 8-GF-3,5 P14 THR	**1789724**	50
MC 1,5/ 9-GF-3,5 P14 THR	**1789740**	50
MC 1,5/10-GF-3,5 P14 THR	**1789766**	50
MC 1,5/11-GF-3,5 P14 THR	**1789782**	50
MC 1,5/12-GF-3,5 P26 THR	**1789368**	50
3.81 mm pitch, color: Black		
MC 1,5/ 2-GF-3,81 P14 THR	**1781803**	100
MC 1,5/ 3-GF-3,81 P14 THR	**1781816**	100
MC 1,5/ 4-GF-3,81 P14 THR	**1781829**	100
MC 1,5/ 5-GF-3,81 P14 THR	**1781832**	50
MC 1,5/ 6-GF-3,81 P14 THR	**1781845**	50
MC 1,5/ 7-GF-3,81 P14 THR	**1781858**	50
MC 1,5/ 8-GF-3,81 P14 THR	**1781861**	50
MC 1,5/ 9-GF-3,81 P14 THR	**1781874**	50
MC 1,5/10-GF-3,81 P14 THR	**1781887**	50
MC 1,5/11-GF-3,81 P14 THR	**1781890**	50
MC 1,5/12-GF-3,81 P14 THR	**1781900**	50

1.4 mm pin length, box-packaged headers, plug-in direction vertical to the PCB

Dimensional drawing



Drilling diagram

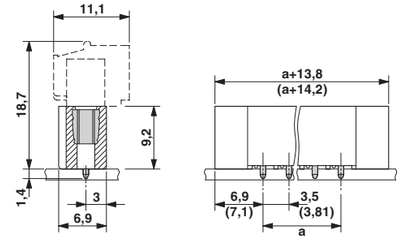


Ordering data

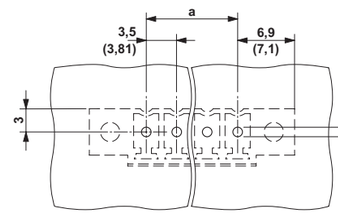
Type	Order No.	Pcs. / Pkt.
Pitch 3.5 mm, color: Black		
MCV 1,5/ 2-G-3,5 P14 THR	**1780192**	100
MCV 1,5/ 3-G-3,5 P14 THR	**1780215**	100
MCV 1,5/ 4-G-3,5 P14 THR	**1780231**	100
MCV 1,5/ 5-G-3,5 P14 THR	**1780257**	50
MCV 1,5/ 6-G-3,5 P14 THR	**1780273**	50
MCV 1,5/ 7-G-3,5 P14 THR	**1780299**	50
MCV 1,5/ 8-G-3,5 P14 THR	**1780312**	50
MCV 1,5/ 9-G-3,5 P14 THR	**1780338**	50
MCV 1,5/10-G-3,5 P14 THR	**1780354**	50
MCV 1,5/11-G-3,5 P14 THR	**1780370**	50
MCV 1,5/12-G-3,5 P14 THR	**1780396**	50
3.81 mm pitch, color: Black		
MCV 1,5/ 2-G-3,81 P14 THR	**1707007**	50
MCV 1,5/ 3-G-3,81 P14 THR	**1707010**	50
MCV 1,5/ 4-G-3,81 P14 THR	**1707023**	50
MCV 1,5/ 5-G-3,81 P14 THR	**1707036**	50
MCV 1,5/ 6-G-3,81 P14 THR	**1707049**	50
MCV 1,5/ 7-G-3,81 P14 THR	**1707052**	50
MCV 1,5/ 8-G-3,81 P14 THR	**1707065**	50
MCV 1,5/ 9-G-3,81 P14 THR	**1707078**	50
MCV 1,5/10-G-3,81 P14 THR	**1707081**	50
MCV 1,5/11-G-3,81 P14 THR	**1707094**	50
MCV 1,5/12-G-3,81 P14 THR	**1707104**	50

1.4 mm pin length, with threaded flange, box-packaged headers, plug-in direction vertical to the PCB

Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 3.5 mm, color: Black		
MCV 1,5/ 2-GF-3,5 P14 THR	**1779938**	100
MCV 1,5/ 3-GF-3,5 P14 THR	**1779954**	100
MCV 1,5/ 4-GF-3,5 P14 THR	**1779970**	100
MCV 1,5/ 5-GF-3,5 P14 THR	**1779996**	50
MCV 1,5/ 6-GF-3,5 P14 THR	**1780011**	50
MCV 1,5/ 7-GF-3,5 P14 THR	**1780037**	50
MCV 1,5/ 8-GF-3,5 P14 THR	**1780053**	50
MCV 1,5/ 9-GF-3,5 P14 THR	**1780079**	50
MCV 1,5/10-GF-3,5 P14 THR	**1780095**	50
MCV 1,5/11-GF-3,5 P14 THR	**1780134**	50
MCV 1,5/12-GF-3,5 P14 THR	**1780176**	50
3.81 mm pitch, color: Black		
MCV 1,5/ 2-GF-3,81 P14 THR	**1707214**	50
MCV 1,5/ 3-GF-3,81 P14 THR	**1707227**	50
MCV 1,5/ 4-GF-3,81 P14 THR	**1707230**	50
MCV 1,5/ 5-GF-3,81 P14 THR	**1707243**	50
MCV 1,5/ 6-GF-3,81 P14 THR	**1707256**	50
MCV 1,5/ 7-GF-3,81 P14 THR	**1707269**	50
MCV 1,5/ 8-GF-3,81 P14 THR	**1707272**	50
MCV 1,5/ 9-GF-3,81 P14 THR	**1707285**	50
MCV 1,5/10-GF-3,81 P14 THR	**1707298**	50
MCV 1,5/11-GF-3,81 P14 THR	**1707308**	50
MCV 1,5/12-GF-3,81 P14 THR	**1707311**	50

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Single-level header for reflow processes



- High-precision pin strips for increased tolerance requirements
- Position tolerance of pins less than ±0.1 mm around zero position
- 2.6 mm pin
- Box packaging
- You can find user notes and recommendations for THR procedure on page 27

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 182.

CP-MSTB may only be used after reflow soldering. CP-MSTB NAT HT may also be used prior to reflow soldering.

Dimensional drawings of the free space for solder paste, the tape, and pick-and-place pads can be found online at **www.phoenixcontact.net/products**.

Accessories

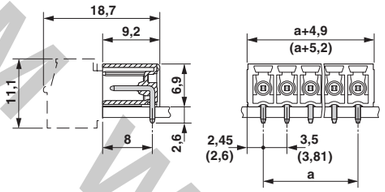
For all types	Type	Page
	Keying profile **CP-MSTB Order No. 1734634**	38
	Keying profile **CP-MSTB NAT HT Order No. 1954359**	38
	Marker cards **SK 3,81/2,8**	797

N

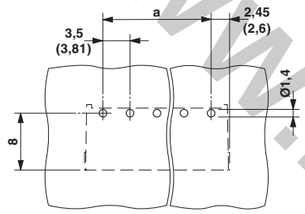


2.6 mm pin length, box-packaged headers, plug-in direction parallel to the PCB

Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current	[A]	8		
Rated insulation voltage for pollution degree 2	[V]	160		
Pitch	[mm]	3.5 / 3.81		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	160	160	250
Rated surge voltage	[kV]	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	8	-	8
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		LCP / IIIa		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.4 / 0,8 x 0,8 mm		

Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		Pitch 3.5 mm, color: Black		
2	3.50	**MC 1,5/ 2-G-3,5 P26 THR**	**1788505**	50
3	7.00	**MC 1,5/ 3-G-3,5 P26 THR**	**1788521**	50
4	10.50	**MC 1,5/ 4-G-3,5 P26 THR**	**1788547**	50
5	14.00	**MC 1,5/ 5-G-3,5 P26 THR**	**1788563**	50
6	17.50	**MC 1,5/ 6-G-3,5 P26 THR**	**1788589**	50
7	21.00	**MC 1,5/ 7-G-3,5 P26 THR**	**1788602**	50
8	24.50	**MC 1,5/ 8-G-3,5 P26 THR**	**1788628**	50
9	28.00	**MC 1,5/ 9-G-3,5 P26 THR**	**1788644**	50
10	31.50	**MC 1,5/10-G-3,5 P26 THR**	**1788660**	50
11	35.00	**MC 1,5/11-G-3,5 P26 THR**	**1788686**	50
12	38.50	**MC 1,5/12-G-3,5 P26 THR**	**1788709**	50
		Pitch 3.5 mm, color: Black		
2	3.81	**MC 1,5/ 2-G-3,81 P26 THR**	**1721986**	100
3	7.62	**MC 1,5/ 3-G-3,81 P26 THR**	**1721999**	100
4	11.43	**MC 1,5/ 4-G-3,81 P26 THR**	**1722008**	100
5	15.24	**MC 1,5/ 5-G-3,81 P26 THR**	**1722011**	50
6	19.05	**MC 1,5/ 6-G-3,81 P26 THR**	**1722024**	50
7	22.86	**MC 1,5/ 7-G-3,81 P26 THR**	**1722037**	50
8	26.67	**MC 1,5/ 8-G-3,81 P26 THR**	**1722040**	50
9	30.48	**MC 1,5/ 9-G-3,81 P26 THR**	**1722053**	50
10	34.29	**MC 1,5/10-G-3,81 P26 THR**	**1722066**	50
11	38.10	**MC 1,5/11-G-3,81 P26 THR**	**1722079**	50
12	41.91	**MC 1,5/12-G-3,81 P26 THR**	**1722082**	50

Mini plug-in connectors with 3.5/3.81 and 5.08 mm pitch

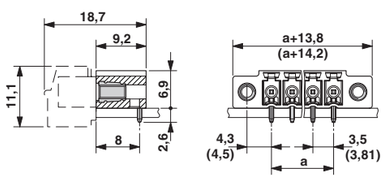
MINI COMBICON plug-in connectors, pitches 3.5 or 3.81 and 5.08 mm

N

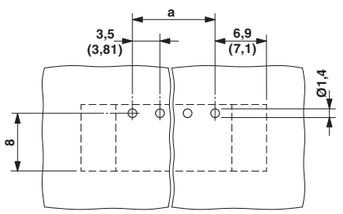


Pin length of 2.6 mm, with threaded flange Box-packaged headers Plug-in direction parallel to the PCB

Dimensional drawing



Drilling diagram

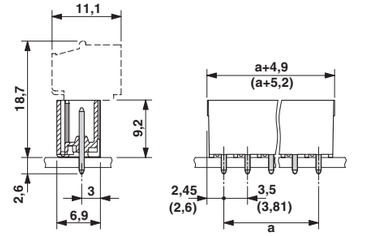


Ordering data

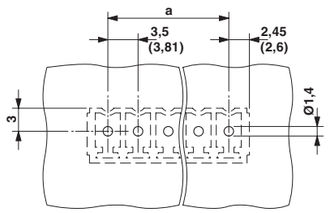
Type	Order No.	Pcs. / Pkt.
Pitch 3.5 mm, color: Black		
MC 1,5/ 2-GF-3,5 P26 THR	**1789164**	50
MC 1,5/ 3-GF-3,5 P26 THR	**1789180**	50
MC 1,5/ 4-GF-3,5 P26 THR	**1789203**	50
MC 1,5/ 5-GF-3,5 P26 THR	**1789229**	50
MC 1,5/ 6-GF-3,5 P26 THR	**1789245**	50
MC 1,5/ 7-GF-3,5 P26 THR	**1789261**	50
MC 1,5/ 8-GF-3,5 P26 THR	**1789287**	50
MC 1,5/ 9-GF-3,5 P26 THR	**1789300**	50
MC 1,5/10-GF-3,5 P26 THR	**1789326**	50
MC 1,5/11-GF-3,5 P26 THR	**1789342**	50
MC 1,5/12-GF-3,5 P26 THR	**1789368**	50
3.81 mm pitch, color: Black		
MC 1,5/ 2-GF-3,81 P26 THR	**1722150**	100
MC 1,5/ 3-GF-3,81 P26 THR	**1722163**	100
MC 1,5/ 4-GF-3,81 P26 THR	**1722176**	100
MC 1,5/ 5-GF-3,81 P26 THR	**1722189**	50
MC 1,5/ 6-GF-3,81 P26 THR	**1722202**	50
MC 1,5/ 7-GF-3,81 P26 THR	**1722215**	50
MC 1,5/ 8-GF-3,81 P26 THR	**1722228**	50
MC 1,5/ 9-GF-3,81 P26 THR	**1722231**	50
MC 1,5/10-GF-3,81 P26 THR	**1722244**	50
MC 1,5/11-GF-3,81 P26 THR	**1722257**	50
MC 1,5/12-GF-3,81 P26 THR	**1722260**	50

2.6 mm pin length, box-packaged headers, plug-in direction vertical to the PCB

Dimensional drawing



Drilling diagram

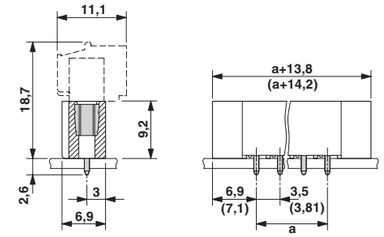


Ordering data

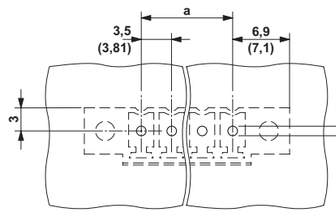
Type	Order No.	Pcs. / Pkt.
Pitch 3.5 mm, color: Black		
MCV 1,5/ 2-G-3,5 P26 THR	**1779365**	100
MCV 1,5/ 3-G-3,5 P26 THR	**1779381**	100
MCV 1,5/ 4-G-3,5 P26 THR	**1779404**	100
MCV 1,5/ 5-G-3,5 P26 THR	**1779420**	50
MCV 1,5/ 6-G-3,5 P26 THR	**1779446**	50
MCV 1,5/ 7-G-3,5 P26 THR	**1779462**	50
MCV 1,5/ 8-G-3,5 P26 THR	**1779488**	50
MCV 1,5/ 9-G-3,5 P26 THR	**1779501**	50
MCV 1,5/10-G-3,5 P26 THR	**1779527**	50
MCV 1,5/11-G-3,5 P26 THR	**1779543**	50
MCV 1,5/12-G-3,5 P26 THR	**1779569**	50
3.81 mm pitch, color: Black		
MCV 1,5/ 2-G-3,81 P26 THR	**1707421**	50
MCV 1,5/ 3-G-3,81 P26 THR	**1707434**	50
MCV 1,5/ 4-G-3,81 P26 THR	**1707447**	50
MCV 1,5/ 5-G-3,81 P26 THR	**1707450**	50
MCV 1,5/ 6-G-3,81 P26 THR	**1707463**	50
MCV 1,5/ 7-G-3,81 P26 THR	**1707476**	50
MCV 1,5/ 8-G-3,81 P26 THR	**1707489**	50
MCV 1,5/ 9-G-3,81 P26 THR	**1707492**	50
MCV 1,5/10-G-3,81 P26 THR	**1707502**	50
MCV 1,5/11-G-3,81 P26 THR	**1707515**	50
MCV 1,5/12-G-3,81 P26 THR	**1707528**	50

2.6 mm pin length, with threaded flange, box-packaged headers, plug-in direction vertical to the PCB

Dimensional drawing



Drilling diagram

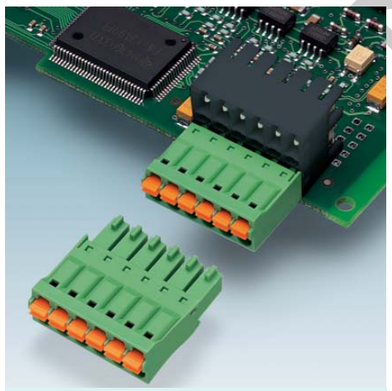


Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 3.5 mm, color: Black		
MCV 1,5/ 2-GF-3,5 P26 THR	**1779064**	100
MCV 1,5/ 3-GF-3,5 P26 THR	**1779080**	100
MCV 1,5/ 4-GF-3,5 P26 THR	**1779103**	100
MCV 1,5/ 5-GF-3,5 P26 THR	**1779129**	50
MCV 1,5/ 6-GF-3,5 P26 THR	**1779145**	50
MCV 1,5/ 7-GF-3,5 P26 THR	**1779161**	50
MCV 1,5/ 8-GF-3,5 P26 THR	**1779187**	50
MCV 1,5/ 9-GF-3,5 P26 THR	**1779200**	50
MCV 1,5/10-GF-3,5 P26 THR	**1779226**	50
MCV 1,5/11-GF-3,5 P26 THR	**1780118**	50
MCV 1,5/12-GF-3,5 P26 THR	**1780150**	50
3.81 mm pitch, color: Black		
MCV 1,5/ 2-GF-3,81 P26 THR	**1707638**	50
MCV 1,5/ 3-GF-3,81 P26 THR	**1707641**	50
MCV 1,5/ 4-GF-3,81 P26 THR	**1707654**	50
MCV 1,5/ 5-GF-3,81 P26 THR	**1707667**	50
MCV 1,5/ 6-GF-3,81 P26 THR	**1707670**	50
MCV 1,5/ 7-GF-3,81 P26 THR	**1707683**	50
MCV 1,5/ 8-GF-3,81 P26 THR	**1707696**	50
MCV 1,5/ 9-GF-3,81 P26 THR	**1707706**	50
MCV 1,5/10-GF-3,81 P26 THR	**1707719**	50
MCV 1,5/11-GF-3,81 P26 THR	**1707722**	50
MCV 1,5/12-GF-3,81 P26 THR	**1707735**	50

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Double-level header for reflow processes



- Application in SMT reflow processes
- THR double-level pin strips with a flat design featuring compact pitches of 3.5 mm and 3.81 mm
- Alternative pin lengths 1.4 mm or 2.6 mm
- Plug-in direction parallel to the PCB
- Without a level offset, for flush installation in the front of the devices
- Versions with engagement noses for locking plugs with self-locking flanges
- Higher numbers of positions up to 20-pos. can be found at: **www.phoenixcontact.net/products**
- Relevant FMC 1,5/...connectors can be found on page 200

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 182.

Application notes and suggestions for the THR process can be found on page 27

CP-MSTB may only be used after reflow soldering. CP-MSTB NAT HT may also be used prior to reflow soldering.

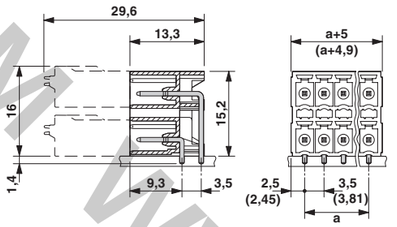
Accessories

For all types	Type	Page
	Keying profile **CP-MSTB Order No. 1734634**	38
	Marker cards **SK 3,5/2,8 or SK 3,81/2,8**	797

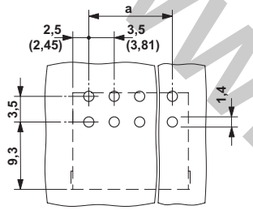


1.4 mm pin length, plug-in direction parallel to the PCB

Dimensional drawing



Drilling diagram



Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		Pitch 3.5 mm, color: Black		
2	3.50	**MCDN 1,5/ 2-G1-3,5 P14THR**	**1953907**	50
3	7.00	**MCDN 1,5/ 3-G1-3,5 P14THR**	**1953923**	50
4	10.50	**MCDN 1,5/ 4-G1-3,5 P14THR**	**1953936**	50
5	14.00	**MCDN 1,5/ 5-G1-3,5 P14THR**	**1953949**	50
6	17.50	**MCDN 1,5/ 6-G1-3,5 P14THR**	**1953952**	50
7	21.00	**MCDN 1,5/ 7-G1-3,5 P14THR**	**1953965**	50
8	24.50	**MCDN 1,5/ 8-G1-3,5 P14THR**	**1953978**	50
9	28.00	**MCDN 1,5/ 9-G1-3,5 P14THR**	**1953981**	50
10	31.50	**MCDN 1,5/10-G1-3,5 P14THR**	**1953994**	50
11	35.00	**MCDN 1,5/11-G1-3,5 P14THR**	**1954003**	50
12	38.50	**MCDN 1,5/12-G1-3,5 P14THR**	**1954032**	50
13	42.00	**MCDN 1,5/13-G1-3,5 P14THR**	**1954045**	50
14	45.50	**MCDN 1,5/14-G1-3,5 P14THR**	**1954058**	50
15	49.00	**MCDN 1,5/15-G1-3,5 P14THR**	**1954061**	50
16	52.50	**MCDN 1,5/16-G1-3,5 P14THR**	**1954074**	50
		3.81 mm pitch, color: Black		
2	3.81	**MCDN 1,5/ 2-G1-3,81 P14THR**	**1749337**	50
2	7.62	**MCDN 1,5/ 3-G1-3,81 P14THR**	**1749340**	50
4	11.43	**MCDN 1,5/ 4-G1-3,81 P14THR**	**1749353**	50
5	15.24	**MCDN 1,5/ 5-G1-3,81 P14THR**	**1749366**	50
6	19.05	**MCDN 1,5/ 6-G1-3,81 P14THR**	**1749379**	50
7	22.86	**MCDN 1,5/ 7-G1-3,81 P14THR**	**1749382**	50
8	26.67	**MCDN 1,5/ 8-G1-3,81 P14THR**	**1749395**	50
9	30.48	**MCDN 1,5/ 9-G1-3,81 P14THR**	**1749405**	50
10	34.29	**MCDN 1,5/10-G1-3,81 P14THR**	**1749418**	50
11	38.10	**MCDN 1,5/11-G1-3,81 P14THR**	**1749421**	50
12	41.91	**MCDN 1,5/12-G1-3,81 P14THR**	**1749434**	50
13	45.72	**MCDN 1,5/13-G1-3,81 P14THR**	**1749447**	50
14	49.53	**MCDN 1,5/14-G1-3,81 P14THR**	**1749450**	50
15	53.34	**MCDN 1,5/15-G1-3,81 P14THR**	**1749463**	50
16	57.15	**MCDN 1,5/16-G1-3,81 P14THR**	**1749476**	50

Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current	[A]	8		
Rated insulation voltage for pollution degree 2	[V]	160		
Pitch	[mm]	3.5 / 3.81		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	160	160	250
Rated surge voltage	[kV]	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	150	-	150
Nominal current	[A]	8	-	8
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		LCP / IIIa		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.4 / 0,8 x 0,8 mm		

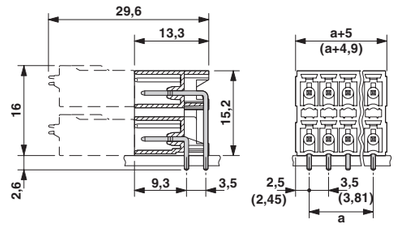
Mini plug-in connectors with 3.5/3.81 and 5.08 mm pitch

MINI COMBICON plug-in connectors, pitches 3.5 or 3.81 and 5.08 mm

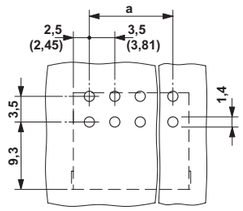


2.6 mm pin length, plug-in direction parallel to the PCB

Dimensional drawing



Drilling diagram



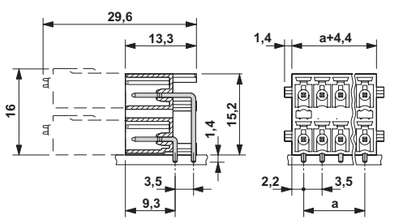
Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 3.5 mm, color: Black		
MCDN 1,5/ 2-G1-3,5 P26THR	**1953716**	50
MCDN 1,5/ 3-G1-3,5 P26THR	**1953729**	50
MCDN 1,5/ 4-G1-3,5 P26THR	**1953732**	50
MCDN 1,5/ 5-G1-3,5 P26THR	**1953745**	50
MCDN 1,5/ 6-G1-3,5 P26THR	**1953758**	50
MCDN 1,5/ 7-G1-3,5 P26THR	**1953761**	50
MCDN 1,5/ 8-G1-3,5 P26THR	**1953774**	50
MCDN 1,5/ 9-G1-3,5 P26THR	**1953787**	50
MCDN 1,5/10-G1-3,5 P26THR	**1953790**	50
MCDN 1,5/11-G1-3,5 P26THR	**1953800**	50
MCDN 1,5/12-G1-3,5 P26THR	**1953813**	50
MCDN 1,5/13-G1-3,5 P26THR	**1953826**	50
MCDN 1,5/14-G1-3,5 P26THR	**1953839**	50
MCDN 1,5/15-G1-3,5 P26THR	**1953842**	50
MCDN 1,5/16-G1-3,5 P26THR	**1953855**	50
3.81 mm pitch, color: Black		
MCDN 1,5/ 2-G1-3,81 P26THR	**1749528**	50
MCDN 1,5/ 3-G1-3,81 P26THR	**1749531**	50
MCDN 1,5/ 4-G1-3,81 P26THR	**1749544**	50
MCDN 1,5/ 5-G1-3,81 P26THR	**1749557**	50
MCDN 1,5/ 6-G1-3,81 P26THR	**1749560**	50
MCDN 1,5/ 7-G1-3,81 P26THR	**1749573**	50
MCDN 1,5/ 8-G1-3,81 P26THR	**1749586**	50
MCDN 1,5/ 9-G1-3,81 P26THR	**1749599**	50
MCDN 1,5/10-G1-3,81 P26THR	**1749609**	50
MCDN 1,5/11-G1-3,81 P26THR	**1749612**	50
MCDN 1,5/12-G1-3,81 P26THR	**1749625**	50
MCDN 1,5/13-G1-3,81 P26THR	**1749638**	50
MCDN 1,5/14-G1-3,81 P26THR	**1749641**	50
MCDN 1,5/15-G1-3,81 P26THR	**1749654**	50
MCDN 1,5/16-G1-3,81 P26THR	**1749667**	50

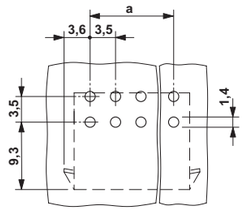


1.4 mm pin length, with engagement noses, plug-in direction parallel to the PCB

Dimensional drawing



Drilling diagram



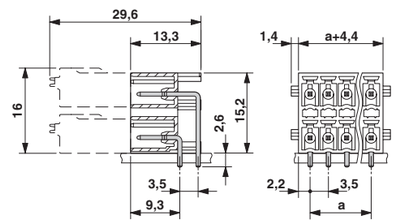
Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 3.5 mm, color: Black		
MCDN 1,5/ 2-G1-3,5 RNP14THR	**1953208**	50
MCDN 1,5/ 3-G1-3,5 RNP14THR	**1953211**	50
MCDN 1,5/ 4-G1-3,5 RNP14THR	**1953224**	50
MCDN 1,5/ 5-G1-3,5 RNP14THR	**1953237**	50
MCDN 1,5/ 6-G1-3,5 RNP14THR	**1953240**	50
MCDN 1,5/ 7-G1-3,5 RNP14THR	**1953253**	50
MCDN 1,5/ 8-G1-3,5 RNP14THR	**1953266**	50
MCDN 1,5/ 9-G1-3,5 RNP14THR	**1953279**	50
MCDN 1,5/10-G1-3,5 RNP14THR	**1953282**	50
MCDN 1,5/11-G1-3,5 RNP14THR	**1953295**	50
MCDN 1,5/12-G1-3,5 RNP14THR	**1953305**	50
MCDN 1,5/13-G1-3,5 RNP14THR	**1953318**	50
MCDN 1,5/14-G1-3,5 RNP14THR	**1953321**	50
MCDN 1,5/15-G1-3,5 RNP14THR	**1953334**	50
MCDN 1,5/16-G1-3,5 RNP14THR	**1953350**	50

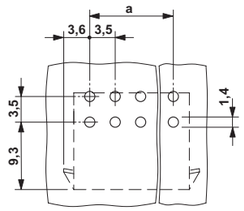


2.6 mm pin length, with engagement noses, plug-in direction parallel to the PCB

Dimensional drawing



Drilling diagram

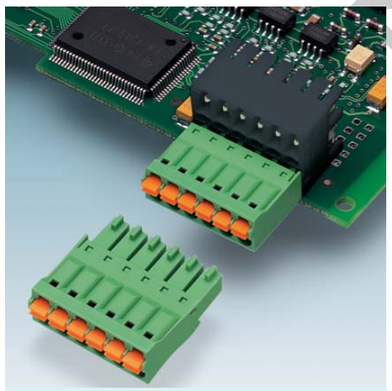


Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 3.5 mm, color: Black		
MCDN 1,5/ 2-G1-3,5 RNP26THR	**1953402**	50
MCDN 1,5/ 3-G1-3,5 RNP26THR	**1953415**	50
MCDN 1,5/ 4-G1-3,5 RNP26THR	**1953428**	50
MCDN 1,5/ 5-G1-3,5 RNP26THR	**1953554**	50
MCDN 1,5/ 6-G1-3,5 RNP26THR	**1953567**	50
MCDN 1,5/ 7-G1-3,5 RNP26THR	**1953570**	50
MCDN 1,5/ 8-G1-3,5 RNP26THR	**1953583**	50
MCDN 1,5/ 9-G1-3,5 RNP26THR	**1953596**	50
MCDN 1,5/10-G1-3,5 RNP26THR	**1953606**	50
MCDN 1,5/11-G1-3,5 RNP26THR	**1953619**	50
MCDN 1,5/12-G1-3,5 RNP26THR	**1953622**	50
MCDN 1,5/13-G1-3,5 RNP26THR	**1953635**	50
MCDN 1,5/14-G1-3,5 RNP26THR	**1953648**	50
MCDN 1,5/15-G1-3,5 RNP26THR	**1953651**	50
MCDN 1,5/16-G1-3,5 RNP26THR	**1953664**	50

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Double-level header for reflow processes



- Application in SMT reflow processes
- THR double-level pin strips with a flat design featuring compact pitches of 3.5 mm and 3.81 mm
- Alternative pin lengths 1.4 mm or 2.6 mm
- Plug-in direction vertical to the PCB
- Without a level offset, for flush installation in the front of the devices
- Versions with engagement noses for locking plugs with self-locking flanges
- Higher numbers of positions up to 20-pos. can be found at: **www.phoenixcontact.net/products**
- Relevant FMC 1,5/...connectors can be found on page 200

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 182.

Application notes and suggestions for the THR process can be found on page 27.

CP-MSTB may only be used after reflow soldering. CP-MSTB NAT HT may also be used prior to reflow soldering.

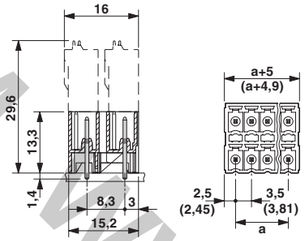
Accessories

For all types	Type	Page
	Keying profile **CP-MSTB Order No. 1734634**	38
	Marker cards **SK 3,5/2,8 or SK 3,81/2,8**	797

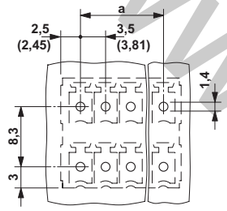


1.4 mm pin length, plug-in direction vertical to the PCB

Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current	[A]	8		
Rated insulation voltage for pollution degree 2	[V]	200		
Pitch	[mm]	3.5 / 3.81		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	160	200	250
Rated surge voltage	[kV]	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	150	-	150
Nominal current	[A]	8	-	8
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		LCP / IIIa		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.4 / 0,8 x 0,8 mm		

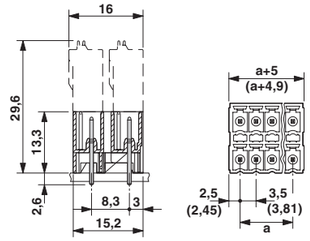
Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		Pitch 3.5 mm, color: Black		
2	3.50	MCDNV 1,5/ 2-G1-3,5 P14THR	1952979	50
3	7.00	MCDNV 1,5/ 3-G1-3,5 P14THR	1952982	50
4	10.50	MCDNV 1,5/ 4-G1-3,5 P14THR	1952995	50
5	14.00	MCDNV 1,5/ 5-G1-3,5 P14THR	1953004	50
6	17.50	MCDNV 1,5/ 6-G1-3,5 P14THR	1953046	50
7	21.00	MCDNV 1,5/ 7-G1-3,5 P14THR	1953059	50
8	24.50	MCDNV 1,5/ 8-G1-3,5 P14THR	1953062	50
9	28.00	MCDNV 1,5/ 9-G1-3,5 P14THR	1953075	50
10	31.50	MCDNV 1,5/10-G1-3,5 P14THR	1953088	50
11	35.00	MCDNV 1,5/11-G1-3,5 P14THR	1953101	50
12	38.50	MCDNV 1,5/12-G1-3,5 P14THR	1953114	50
13	42.00	MCDNV 1,5/13-G1-3,5 P14THR	1953127	50
14	45.50	MCDNV 1,5/14-G1-3,5 P14THR	1953130	50
15	49.00	MCDNV 1,5/15-G1-3,5 P14THR	1953143	50
16	52.50	MCDNV 1,5/16-G1-3,5 P14THR	1953156	50
		3.81 mm pitch, color: Black		
2	3.81	MCDNV 1,5/ 2-G1-3,81 P14THR	1750106	50
3	7.62	MCDNV 1,5/ 3-G1-3,81 P14THR	1750119	50
4	11.43	MCDNV 1,5/ 4-G1-3,81 P14THR	1750122	50
5	15.24	MCDNV 1,5/ 5-G1-3,81 P14THR	1750135	50
6	19.05	MCDNV 1,5/ 6-G1-3,81 P14THR	1750148	50
7	22.86	MCDNV 1,5/ 7-G1-3,81 P14THR	1750151	50
8	26.67	MCDNV 1,5/ 8-G1-3,81 P14THR	1750164	50
9	30.48	MCDNV 1,5/ 9-G1-3,81 P14THR	1750177	50
10	34.29	MCDNV 1,5/10-G1-3,81 P14THR	1750180	50
11	38.10	MCDNV 1,5/11-G1-3,81 P14THR	1750193	50
12	41.91	MCDNV 1,5/12-G1-3,81 P14THR	1750203	50
13	45.72	MCDNV 1,5/13-G1-3,81 P14THR	1750216	50
14	49.53	MCDNV 1,5/14-G1-3,81 P14THR	1750229	50
15	53.34	MCDNV 1,5/15-G1-3,81 P14THR	1750232	50
16	57.15	MCDNV 1,5/16-G1-3,81 P14THR	1750245	50

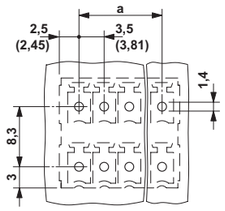


2.6 mm pin length, plug-in direction vertical to the PCB

Dimensional drawing



Drilling diagram



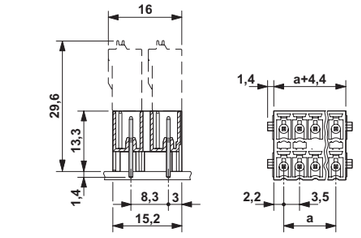
Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 3.5 mm, color: Black		
MCDNV 1,5/ 2-G1-3,5 P26THR	1952788	50
MCDNV 1,5/ 3-G1-3,5 P26THR	1952791	50
MCDNV 1,5/ 4-G1-3,5 P26THR	1952801	50
MCDNV 1,5/ 5-G1-3,5 P26THR	1952814	50
MCDNV 1,5/ 6-G1-3,5 P26THR	1952827	50
MCDNV 1,5/ 7-G1-3,5 P26THR	1952830	50
MCDNV 1,5/ 8-G1-3,5 P26THR	1952843	50
MCDNV 1,5/ 9-G1-3,5 P26THR	1952856	50
MCDNV 1,5/10-G1-3,5 P26THR	1952869	50
MCDNV 1,5/11-G1-3,5 P26THR	1952872	50
MCDNV 1,5/12-G1-3,5 P26THR	1952885	50
MCDNV 1,5/13-G1-3,5 P26THR	1952898	50
MCDNV 1,5/14-G1-3,5 P26THR	1952908	50
MCDNV 1,5/15-G1-3,5 P26THR	1952911	50
MCDNV 1,5/16-G1-3,5 P26THR	1952924	50
3.81 mm pitch, color: Black		
MCDNV 1,5/ 2-G1-3,81 P26THR	1750290	50
MCDNV 1,5/ 3-G1-3,81 P26THR	1750300	50
MCDNV 1,5/ 4-G1-3,81 P26THR	1750313	50
MCDNV 1,5/ 5-G1-3,81 P26THR	1750326	50
MCDNV 1,5/ 6-G1-3,81 P26THR	1750339	50
MCDNV 1,5/ 7-G1-3,81 P26THR	1750342	50
MCDNV 1,5/ 8-G1-3,81 P26THR	1750355	50
MCDNV 1,5/ 9-G1-3,81 P26THR	1750368	50
MCDNV 1,5/10-G1-3,81 P26THR	1750371	50
MCDNV 1,5/11-G1-3,81 P26THR	1750384	50
MCDNV 1,5/12-G1-3,81 P26THR	1750397	50
MCDNV 1,5/13-G1-3,81 P26THR	1750407	50
MCDNV 1,5/14-G1-3,81 P26THR	1750410	50
MCDNV 1,5/15-G1-3,81 P26THR	1750423	50
MCDNV 1,5/16-G1-3,81 P26THR	1750436	50

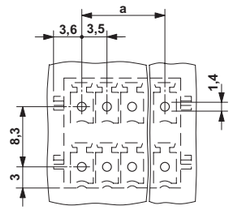


1.4 mm pin length, with engagement noses, plug-in direction vertical to the PCB

Dimensional drawing



Drilling diagram



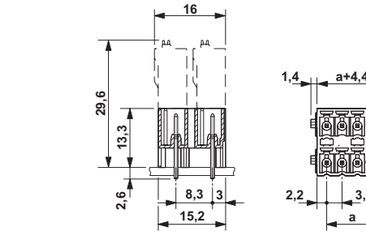
Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 3.5 mm, color: Black		
MCDNV 1,5/ 2-G1-3,5 RNP14THR	1952500	50
MCDNV 1,5/ 3-G1-3,5 RNP14THR	1952513	50
MCDNV 1,5/ 4-G1-3,5 RNP14THR	1952526	50
MCDNV 1,5/ 5-G1-3,5 RNP14THR	1952539	50
MCDNV 1,5/ 6-G1-3,5 RNP14THR	1952542	50
MCDNV 1,5/ 7-G1-3,5 RNP14THR	1952555	50
MCDNV 1,5/ 8-G1-3,5 RNP14THR	1952568	50
MCDNV 1,5/ 9-G1-3,5 RNP14THR	1952571	50
MCDNV 1,5/10-G1-3,5 RNP14THR	1952584	50
MCDNV 1,5/11-G1-3,5 RNP14THR	1952597	50
MCDNV 1,5/12-G1-3,5 RNP14THR	1952607	50
MCDNV 1,5/13-G1-3,5 RNP14THR	1952610	50
MCDNV 1,5/14-G1-3,5 RNP14THR	1952623	50
MCDNV 1,5/15-G1-3,5 RNP14THR	1952636	50
MCDNV 1,5/16-G1-3,5 RNP14THR	1952649	50

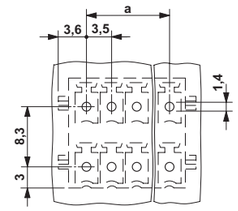


2.6 mm pin length, with engagement noses, plug-in direction vertical to the PCB

Dimensional drawing



Drilling diagram

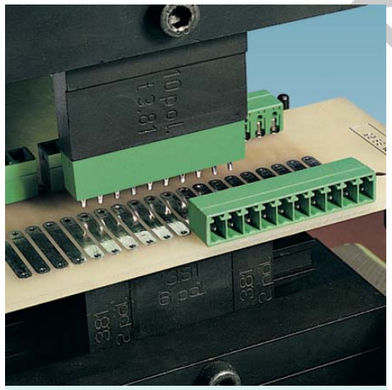


Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 3.5 mm, color: Black		
MCDNV 1,5/ 2-G1-3,5 RNP26THR	1952458	50
MCDNV 1,5/ 3-G1-3,5 RNP26THR	1952461	50
MCDNV 1,5/ 4-G1-3,5 RNP26THR	1952474	50
MCDNV 1,5/ 5-G1-3,5 RNP26THR	1952487	50
MCDNV 1,5/ 6-G1-3,5 RNP26THR	1952490	50
MCDNV 1,5/ 7-G1-3,5 RNP26THR	1952212	50
MCDNV 1,5/ 8-G1-3,5 RNP26THR	1952225	50
MCDNV 1,5/ 9-G1-3,5 RNP26THR	1952238	50
MCDNV 1,5/10-G1-3,5 RNP26THR	1952241	50
MCDNV 1,5/11-G1-3,5 RNP26THR	1952254	50
MCDNV 1,5/12-G1-3,5 RNP26THR	1952694	50
MCDNV 1,5/13-G1-3,5 RNP26THR	1952704	50
MCDNV 1,5/14-G1-3,5 RNP26THR	1952717	50
MCDNV 1,5/15-G1-3,5 RNP26THR	1952720	50
MCDNV 1,5/16-G1-3,5 RNP26THR	1952733	50

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Single-level header for press-in technology



- Pin strips with flexible press-in zone ERNI-PRESS
- Plug-in direction horizontal and vertical to the PCB
- Processing as per EN 60352-5
- Press-in tools available on request
- Versions with and without a threaded flange
- You can find user notes and recommendations for the press-in technology on page 31

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 182.

Mounting screws for base element with threaded flange (....GF...): sheet metal screw ISO 1481-ST 2,2x4,5 C or ISO 7049-ST 2,2x4,5 C.

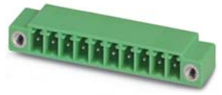
For the structure of the plated bore hole for EMC 1,5/...-G(F)-... and EMCV 1,5/....-G(F)-... see page 31.

Accessories

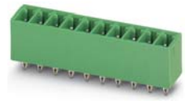
For all types	Type	Page
	Keying profile **CP-MSTB** **Order No. 1734634**	38
	Marker cards **SK 3,5/2,8 or SK 3,81/2,8**	797
	Stamp holder EMC 1,5-SH **Order No. 1877258**	826
Only for EMCV 1,5/...-G(F)-3,81		
	Stamp set EMCV 1,5-SS 1 **Order No. 1877274**	826



Plug-in direction parallel to the PCB



With threaded flange, plug-in direction parallel to the PCB

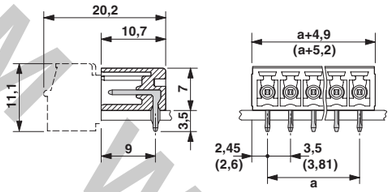


Plug-in direction vertical to the PCB



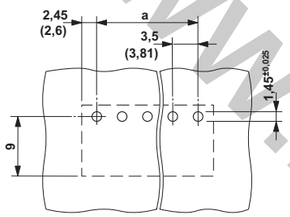
With threaded flange, plug-in direction vertical to the PCB

Dimensional drawing

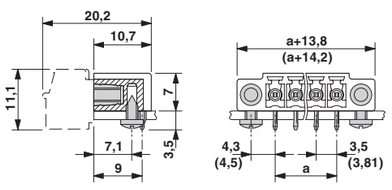


Drilling diagram

Minimum printed circuit board thickness 1.5 mm

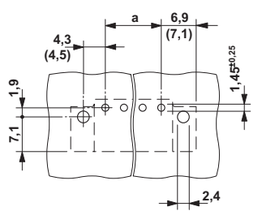


Dimensional drawing

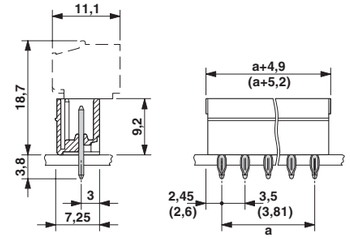


Drilling diagram

Minimum printed circuit board thickness 1.5 mm

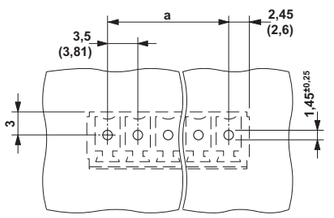


Dimensional drawing

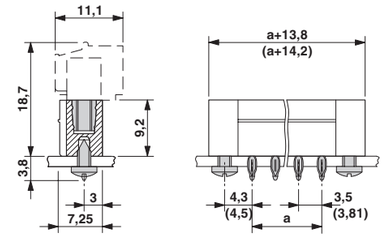


Drilling diagram

Minimum printed circuit board thickness 1.5 mm

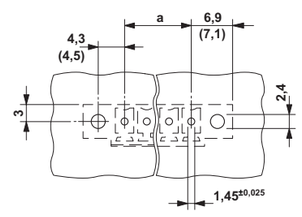


Dimensional drawing



Drilling diagram

Minimum printed circuit board thickness 1.5 mm



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current	[A]	8		
Rated insulation voltage for pollution degree 2	[V]	160		
Pitch	[mm]	3.5 / 3.81		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	160	160	250
Rated surge voltage	[kV]	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	8	-	8
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		PBT / IIIa		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.45 / 0,8 x 0,8 mm		

Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		3.5 mm pitch, color: Green		
2	3.50	**EMC 1,5/ 2-G-3,5**	**1897092**	50
3	7.00	**EMC 1,5/ 3-G-3,5**	**1897102**	50
4	10.50	**EMC 1,5/ 4-G-3,5**	**1897115**	50
5	14.00	**EMC 1,5/ 5-G-3,5**	**1897128**	50
6	17.50	**EMC 1,5/ 6-G-3,5**	**1897131**	50
7	21.00	**EMC 1,5/ 7-G-3,5**	**1897144**	50
8	24.50	**EMC 1,5/ 8-G-3,5**	**1897157**	50
9	28.00	**EMC 1,5/ 9-G-3,5**	**1897160**	50
10	31.50	**EMC 1,5/10-G-3,5**	**1897173**	50
11	35.00	**EMC 1,5/11-G-3,5**	**1897186**	50
12	38.50	**EMC 1,5/12-G-3,5**	**1897199**	50
13	42.00	**EMC 1,5/13-G-3,5**	**1897209**	50
14	45.50	**EMC 1,5/14-G-3,5**	**1897212**	50
15	49.00	**EMC 1,5/15-G-3,5**	**1897225**	50
16	52.50	**EMC 1,5/16-G-3,5**	**1897238**	50
		Pitch 3.81 mm, color: Green		
2	3.81	**EMC 1,5/ 2-G-3,81**	**1897801**	50
3	7.62	**EMC 1,5/ 3-G-3,81**	**1897814**	50
4	11.43	**EMC 1,5/ 4-G-3,81**	**1897827**	50
5	15.24	**EMC 1,5/ 5-G-3,81**	**1897830**	50
6	19.05	**EMC 1,5/ 6-G-3,81**	**1897843**	50
7	22.86	**EMC 1,5/ 7-G-3,81**	**1897856**	50
8	26.67	**EMC 1,5/ 8-G-3,81**	**1897869**	50
9	30.48	**EMC 1,5/ 9-G-3,81**	**1897872**	50
10	34.29	**EMC 1,5/10-G-3,81**	**1897885**	50
11	38.10	**EMC 1,5/11-G-3,81**	**1897898**	50
12	41.91	**EMC 1,5/12-G-3,81**	**1897908**	50
13	45.72	**EMC 1,5/13-G-3,81**	**1897911**	50
14	49.53	**EMC 1,5/14-G-3,81**	**1897924**	50
15	53.34	**EMC 1,5/15-G-3,81**	**1897937**	50
16	57.15	**EMC 1,5/16-G-3,81**	**1897940**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
EMC 1,5/ 2-GF-3,5	**1897241**	50
EMC 1,5/ 3-GF-3,5	**1897254**	50
EMC 1,5/ 4-GF-3,5	**1897267**	50
EMC 1,5/ 5-GF-3,5	**1897270**	50
EMC 1,5/ 6-GF-3,5	**1897283**	50
EMC 1,5/ 7-GF-3,5	**1897296**	50
EMC 1,5/ 8-GF-3,5	**1897306**	50
EMC 1,5/ 9-GF-3,5	**1897319**	50
EMC 1,5/10-GF-3,5	**1897322**	50
EMC 1,5/11-GF-3,5	**1897335**	50
EMC 1,5/12-GF-3,5	**1897348**	50
EMC 1,5/13-GF-3,5	**1897351**	50
EMC 1,5/14-GF-3,5	**1897364**	50
EMC 1,5/15-GF-3,5	**1897377**	50
EMC 1,5/16-GF-3,5	**1897380**	50
Pitch 3.81 mm, color: Green		
EMC 1,5/ 2-GF-3,81	**1896941**	50
EMC 1,5/ 3-GF-3,81	**1896954**	50
EMC 1,5/ 4-GF-3,81	**1896967**	50
EMC 1,5/ 5-GF-3,81	**1896970**	50
EMC 1,5/ 6-GF-3,81	**1896983**	50
EMC 1,5/ 7-GF-3,81	**1896996**	50
EMC 1,5/ 8-GF-3,81	**1897005**	50
EMC 1,5/ 9-GF-3,81	**1897018**	50
EMC 1,5/10-GF-3,81	**1897021**	50
EMC 1,5/11-GF-3,81	**1897034**	50
EMC 1,5/12-GF-3,81	**1897047**	50
EMC 1,5/13-GF-3,81	**1897050**	50
EMC 1,5/14-GF-3,81	**1897063**	50
EMC 1,5/15-GF-3,81	**1897076**	50
EMC 1,5/16-GF-3,81	**1897089**	50

Ordering data

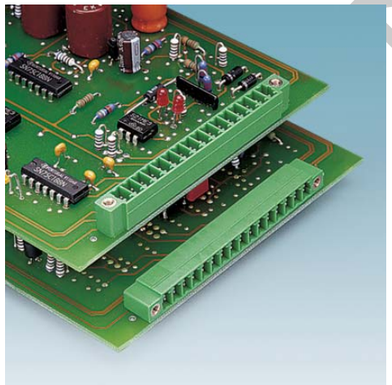
Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
EMCV 1,5/ 2-G-3,5	**1911017**	50
EMCV 1,5/ 3-G-3,5	**1911020**	50
EMCV 1,5/ 4-G-3,5	**1911033**	50
EMCV 1,5/ 5-G-3,5	**1911046**	50
EMCV 1,5/ 6-G-3,5	**1911059**	50
EMCV 1,5/ 7-G-3,5	**1911062**	50
EMCV 1,5/ 8-G-3,5	**1911075**	50
EMCV 1,5/ 9-G-3,5	**1911088**	50
EMCV 1,5/10-G-3,5	**1911091**	50
EMCV 1,5/11-G-3,5	**1911101**	50
EMCV 1,5/12-G-3,5	**1911114**	50
EMCV 1,5/13-G-3,5	**1911127**	50
EMCV 1,5/14-G-3,5	**1911130**	50
EMCV 1,5/15-G-3,5	**1911143**	50
EMCV 1,5/16-G-3,5	**1911156**	50
Pitch 3.81 mm, color: Green		
EMCV 1,5/ 2-G-3,81	**1860647**	50
EMCV 1,5/ 3-G-3,81	**1860650**	50
EMCV 1,5/ 4-G-3,81	**1860663**	50
EMCV 1,5/ 5-G-3,81	**1860676**	50
EMCV 1,5/ 6-G-3,81	**1860689**	50
EMCV 1,5/ 7-G-3,81	**1860692**	50
EMCV 1,5/ 8-G-3,81	**1860702**	50
EMCV 1,5/ 9-G-3,81	**1860715**	50
EMCV 1,5/10-G-3,81	**1860728**	50
EMCV 1,5/11-G-3,81	**1860731**	50
EMCV 1,5/12-G-3,81	**1860744**	50
EMCV 1,5/13-G-3,81	**1860757**	50
EMCV 1,5/14-G-3,81	**1860760**	50
EMCV 1,5/15-G-3,81	**1860773**	50
EMCV 1,5/16-G-3,81	**1860786**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
EMCV 1,5/ 2-GF-3,5	**1911169**	50
EMCV 1,5/ 3-GF-3,5	**1911172**	50
EMCV 1,5/ 4-GF-3,5	**1911185**	50
EMCV 1,5/ 5-GF-3,5	**1911198**	50
EMCV 1,5/ 6-GF-3,5	**1911208**	50
EMCV 1,5/ 7-GF-3,5	**1911211**	50
EMCV 1,5/ 8-GF-3,5	**1911224**	50
EMCV 1,5/ 9-GF-3,5	**1911237**	50
EMCV 1,5/10-GF-3,5	**1911240**	50
EMCV 1,5/11-GF-3,5	**1911253**	50
EMCV 1,5/12-GF-3,5	**1911266**	50
EMCV 1,5/13-GF-3,5	**1911279**	50
EMCV 1,5/14-GF-3,5	**1911282**	50
EMCV 1,5/15-GF-3,5	**1911295**	50
EMCV 1,5/16-GF-3,5	**1911305**	50
Pitch 3.81 mm, color: Green		
EMCV 1,5/ 2-GF-3,81	**1879285**	50
EMCV 1,5/ 3-GF-3,81	**1879298**	50
EMCV 1,5/ 4-GF-3,81	**1879308**	50
EMCV 1,5/ 5-GF-3,81	**1879311**	50
EMCV 1,5/ 6-GF-3,81	**1879324**	50
EMCV 1,5/ 7-GF-3,81	**1879337**	50
EMCV 1,5/ 8-GF-3,81	**1879340**	50
EMCV 1,5/ 9-GF-3,81	**1879353**	50
EMCV 1,5/10-GF-3,81	**1879366**	50
EMCV 1,5/11-GF-3,81	**1879379**	50
EMCV 1,5/12-GF-3,81	**1879382**	50
EMCV 1,5/13-GF-3,81	**1879395**	50
EMCV 1,5/14-GF-3,81	**1879405**	50
EMCV 1,5/15-GF-3,81	**1879418**	50
EMCV 1,5/16-GF-3,81	**1879421**	50

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Single-level header for the wave soldering processes



- Low-profile pin strips with compact pitches
- Plug-in direction parallel and vertical to the PCB
- Versions with and without a threaded flange
- Versions with engagement noses for locking plugs with self-locking flanges
- Versions with Lock & Release locking and threaded flange can be used with plugs with Lock & Release or with screw flange

- Individual position keying by inserting the keying profiles
- Higher numbers of positions up to 20-pos. can be found at: **www.phoenixcontact.net/products**

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 182.

Mounting screws for base element with threaded flange (....GF...): sheet metal screw ISO 1481-ST 2,2x4,5 C or ISO 7049-ST 2,2x4,5 C. Screw connection only permitted prior to soldering.

Accessories

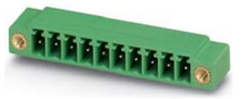
For all types	Type	Page
	Keying profile **CP-MSTB Order No. 1734634**	38
	Marker cards **SK 3,5/2,8 or SK 3,81/2,8**	797



Plug-in direction parallel to the PCB



With engagement noses, plug-in direction parallel to the PCB

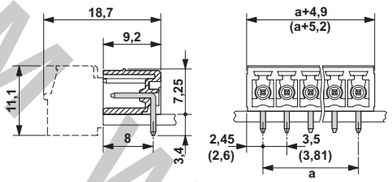


With threaded flange, plug-in direction parallel to the PCB

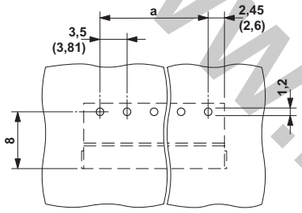


With lock & release mechanism and threaded flange, plug-in direction parallel to the PCB

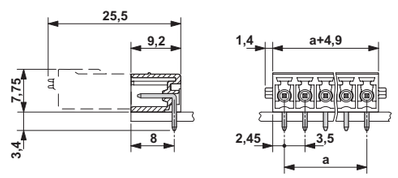
Dimensional drawing



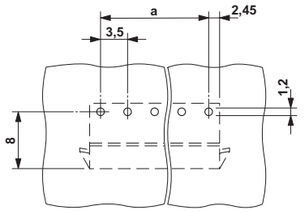
Drilling diagram



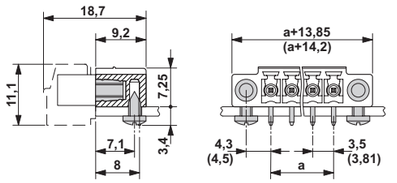
Dimensional drawing



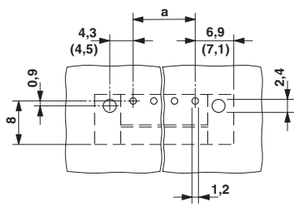
Drilling diagram



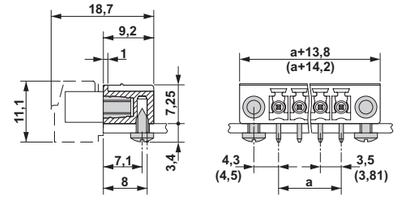
Dimensional drawing



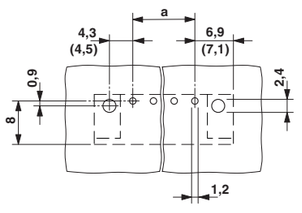
Drilling diagram



Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current	[A]	8		
Rated insulation voltage for pollution degree 2	[V]	160		
Pitch	[mm]	3.5 / 3.81		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	160	160	250
Rated surge voltage	[kV]	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	8	-	8
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	8	-	8
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		PBT / IIIa		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.2 / 0,8 x 0,8 mm		

No. of pos.	Dim. a [mm]
2	3.50
3	7.00
4	10.50
5	14.00
6	17.50
7	21.00
8	24.50
9	28.00
10	31.50
11	35.00
12	38.50
13	42.00
14	45.50
15	49.00
16	52.50
2	3.81
3	7.62
4	11.43
5	15.24
6	19.05
7	22.86
8	26.67
9	30.48
10	34.29
11	38.10
12	41.91
13	45.72
14	49.53
15	53.34
16	57.15

Ordering data

Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
MC 1,5/ 2-G-3,5	1844210	250
MC 1,5/ 3-G-3,5	1844223	250
MC 1,5/ 4-G-3,5	1844236	250
MC 1,5/ 5-G-3,5	1844249	250
MC 1,5/ 6-G-3,5	1844252	100
MC 1,5/ 7-G-3,5	1844265	100
MC 1,5/ 8-G-3,5	1844278	100
MC 1,5/ 9-G-3,5	1844281	100
MC 1,5/10-G-3,5	1844294	100
MC 1,5/11-G-3,5	1844304	50
MC 1,5/12-G-3,5	1844317	50
MC 1,5/13-G-3,5	1844320	50
MC 1,5/14-G-3,5	1844333	50
MC 1,5/15-G-3,5	1844346	50
MC 1,5/16-G-3,5	1844359	50
Pitch 3.81 mm, color: Green		
MC 1,5/ 2-G-3,81	1803277	250
MC 1,5/ 3-G-3,81	1803280	250
MC 1,5/ 4-G-3,81	1803293	250
MC 1,5/ 5-G-3,81	1803303	250
MC 1,5/ 6-G-3,81	1803316	100
MC 1,5/ 7-G-3,81	1803329	100
MC 1,5/ 8-G-3,81	1803332	100
MC 1,5/ 9-G-3,81	1803345	100
MC 1,5/10-G-3,81	1803358	100
MC 1,5/11-G-3,81	1803361	50
MC 1,5/12-G-3,81	1803374	50
MC 1,5/13-G-3,81	1803387	50
MC 1,5/14-G-3,81	1803390	50
MC 1,5/15-G-3,81	1803400	50
MC 1,5/16-G-3,81	1803413	50

Ordering data

Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
MC 1,5/ 2-G-3,5-RN	1731675	50
MC 1,5/ 3-G-3,5-RN	1731688	50
MC 1,5/ 4-G-3,5-RN	1731691	50
MC 1,5/ 5-G-3,5-RN	1731701	50
MC 1,5/ 6-G-3,5-RN	1731714	50
MC 1,5/ 7-G-3,5-RN	1731727	50
MC 1,5/ 8-G-3,5-RN	1731730	50
MC 1,5/ 9-G-3,5-RN	1731743	50
MC 1,5/10-G-3,5-RN	1731756	50
MC 1,5/11-G-3,5-RN	1731769	50
MC 1,5/12-G-3,5-RN	1731772	50
MC 1,5/13-G-3,5-RN	1731785	50
MC 1,5/14-G-3,5-RN	1731798	50
MC 1,5/15-G-3,5-RN	1731808	50
MC 1,5/16-G-3,5-RN	1731811	50

Ordering data

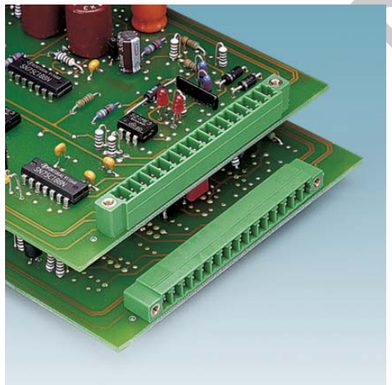
Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
MC 1,5/ 2-GF-3,5	1843790	250
MC 1,5/ 3-GF-3,5	1843800	250
MC 1,5/ 4-GF-3,5	1843813	250
MC 1,5/ 5-GF-3,5	1843826	250
MC 1,5/ 6-GF-3,5	1843839	100
MC 1,5/ 7-GF-3,5	1843842	100
MC 1,5/ 8-GF-3,5	1843855	100
MC 1,5/ 9-GF-3,5	1843868	100
MC 1,5/10-GF-3,5	1843871	100
MC 1,5/11-GF-3,5	1843884	50
MC 1,5/12-GF-3,5	1843897	50
MC 1,5/13-GF-3,5	1843907	50
MC 1,5/14-GF-3,5	1843910	50
MC 1,5/15-GF-3,5	1843923	50
MC 1,5/16-GF-3,5	1843936	50
Pitch 3.81 mm, color: Green		
MC 1,5/ 2-GF-3,81	1827868	250
MC 1,5/ 3-GF-3,81	1827871	250
MC 1,5/ 4-GF-3,81	1827884	250
MC 1,5/ 5-GF-3,81	1827897	250
MC 1,5/ 6-GF-3,81	1827907	100
MC 1,5/ 7-GF-3,81	1827910	100
MC 1,5/ 8-GF-3,81	1827923	100
MC 1,5/ 9-GF-3,81	1827936	100
MC 1,5/10-GF-3,81	1827949	100
MC 1,5/11-GF-3,81	1827952	50
MC 1,5/12-GF-3,81	1827965	50
MC 1,5/13-GF-3,81	1827978	50
MC 1,5/14-GF-3,81	1827981	50
MC 1,5/15-GF-3,81	1827994	50
MC 1,5/16-GF-3,81	1828003	50

Ordering data

Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
MC 1,5/ 2-GF-3,5-LR	1817615	50
MC 1,5/ 3-GF-3,5-LR	1817628	50
MC 1,5/ 4-GF-3,5-LR	1817631	50
MC 1,5/ 5-GF-3,5-LR	1817644	50
MC 1,5/ 6-GF-3,5-LR	1817657	50
MC 1,5/ 7-GF-3,5-LR	1817660	50
MC 1,5/ 8-GF-3,5-LR	1817673	50
MC 1,5/ 9-GF-3,5-LR	1817686	50
MC 1,5/10-GF-3,5-LR	1817699	50
MC 1,5/11-GF-3,5-LR	1817709	50
MC 1,5/12-GF-3,5-LR	1817712	50
MC 1,5/13-GF-3,5-LR	1817725	50
MC 1,5/14-GF-3,5-LR	1817738	50
MC 1,5/15-GF-3,5-LR	1817741	50
MC 1,5/16-GF-3,5-LR	1817754	50
Pitch 3.81 mm, color: Green		
MC 1,5/ 2-GF-3,81-LR	1817806	50
MC 1,5/ 3-GF-3,81-LR	1817819	50
MC 1,5/ 4-GF-3,81-LR	1817822	50
MC 1,5/ 5-GF-3,81-LR	1817835	50
MC 1,5/ 6-GF-3,81-LR	1817848	50
MC 1,5/ 7-GF-3,81-LR	1817851	50
MC 1,5/ 8-GF-3,81-LR	1817864	50
MC 1,5/ 9-GF-3,81-LR	1817877	50
MC 1,5/10-GF-3,81-LR	1817880	50
MC 1,5/11-GF-3,81-LR	1817893	50
MC 1,5/12-GF-3,81-LR	1817903	50
MC 1,5/13-GF-3,81-LR	1817916	50
MC 1,5/14-GF-3,81-LR	1817929	50
MC 1,5/15-GF-3,81-LR	1817932	50
MC 1,5/16-GF-3,81-LR	1817945	50

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Single-level header for the wave soldering processes



- Low-profile pin strips with compact pitches
- Plug-in direction vertical to the PCB
- Versions with and without a threaded flange
- Versions with engagement noses for locking plugs with self-locking flanges
- Versions with Lock & Release locking and threaded flange can be used with plugs with Lock & Release or with screw flange

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 182.

Mounting screws for base element with threaded flange (....GF...): sheet metal screw ISO 1481-ST 2,2x4,5 C or ISO 7049-ST 2,2x4,5 C. Screw connection only permitted prior to soldering.

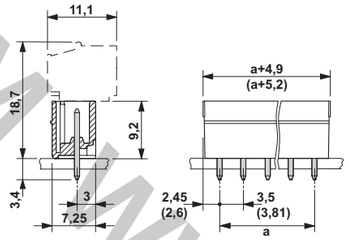
Accessories

For all types	Type	Page
	Keying profile **CP-MSTB** **Order No. 1734634**	38
	Marker cards **SK 3,81/2,8**	797

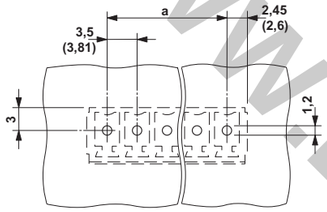


Plug-in direction vertical to the PCB

Dimensional drawing



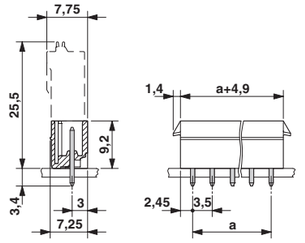
Drilling diagram



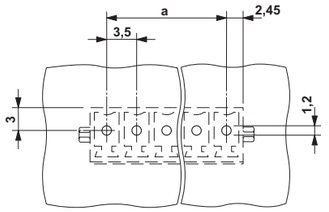


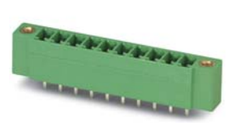
With engagement noses, plug-in direction vertical to the PCB

Dimensional drawing



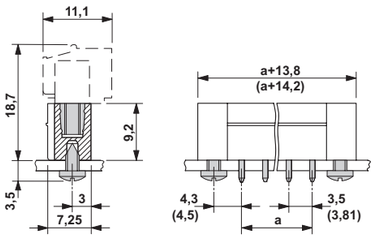
Drilling diagram



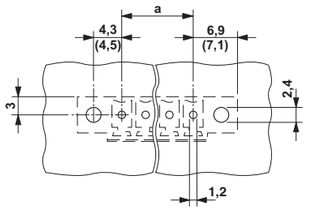


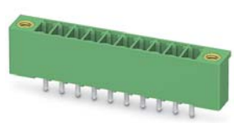
With threaded flange, plug-in direction vertical to the PCB

Dimensional drawing



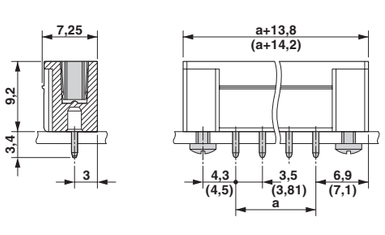
Drilling diagram



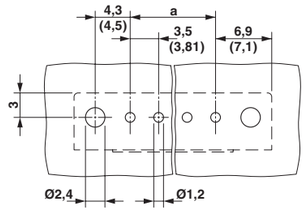


With lock & release mechanism and threaded flange, plug-in direction parallel to the PCB

Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current	[A]	8		
Rated insulation voltage for pollution degree 2	[V]	160		
Pitch	[mm]	3.5 / 3.81		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	160	160	250
Rated surge voltage	[kV]	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	8	-	8
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	8	-	8
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		PBT / IIIa		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.2 / 0,8 x 0,8 mm		

Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		3.5 mm pitch, color: Green		
2	3.50	**MCV 1,5/ 2-G-3,5**	**1843606**	250
3	7.00	**MCV 1,5/ 3-G-3,5**	**1843619**	250
4	10.50	**MCV 1,5/ 4-G-3,5**	**1843622**	250
5	14.00	**MCV 1,5/ 5-G-3,5**	**1843635**	250
6	17.50	**MCV 1,5/ 6-G-3,5**	**1843648**	100
7	21.00	**MCV 1,5/ 7-G-3,5**	**1843651**	100
8	24.50	**MCV 1,5/ 8-G-3,5**	**1843664**	100
9	28.00	**MCV 1,5/ 9-G-3,5**	**1843677**	100
10	31.50	**MCV 1,5/10-G-3,5**	**1843680**	100
11	35.00	**MCV 1,5/11-G-3,5**	**1843693**	50
12	38.50	**MCV 1,5/12-G-3,5**	**1843703**	50
13	42.00	**MCV 1,5/13-G-3,5**	**1843716**	50
14	45.50	**MCV 1,5/14-G-3,5**	**1843729**	50
15	49.00	**MCV 1,5/15-G-3,5**	**1843732**	50
16	52.50	**MCV 1,5/16-G-3,5**	**1843745**	50
		Pitch 3.81 mm, color: Green		
2	3.81	**MCV 1,5/ 2-G-3,81**	**1803426**	250
3	7.62	**MCV 1,5/ 3-G-3,81**	**1803439**	250
4	11.43	**MCV 1,5/ 4-G-3,81**	**1803442**	250
5	15.24	**MCV 1,5/ 5-G-3,81**	**1803455**	250
6	19.05	**MCV 1,5/ 6-G-3,81**	**1803468**	100
7	22.86	**MCV 1,5/ 7-G-3,81**	**1803471**	100
8	26.67	**MCV 1,5/ 8-G-3,81**	**1803484**	100
9	30.48	**MCV 1,5/ 9-G-3,81**	**1803497**	100
10	34.29	**MCV 1,5/10-G-3,81**	**1803507**	100
11	38.10	**MCV 1,5/11-G-3,81**	**1803510**	50
12	41.91	**MCV 1,5/12-G-3,81**	**1803523**	50
13	45.72	**MCV 1,5/13-G-3,81**	**1803536**	50
14	49.53	**MCV 1,5/14-G-3,81**	**1803549**	50
15	53.34	**MCV 1,5/15-G-3,81**	**1803552**	50
16	57.15	**MCV 1,5/16-G-3,81**	**1803565**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
MCV 1,5/ 2-G-3,5-RN	**1731471**	50
MCV 1,5/ 3-G-3,5-RN	**1731484**	50
MCV 1,5/ 4-G-3,5-RN	**1731497**	50
MCV 1,5/ 5-G-3,5-RN	**1731510**	50
MCV 1,5/ 6-G-3,5-RN	**1731523**	50
MCV 1,5/ 7-G-3,5-RN	**1731536**	50
MCV 1,5/ 8-G-3,5-RN	**1731549**	50
MCV 1,5/ 9-G-3,5-RN	**1731552**	50
MCV 1,5/10-G-3,5-RN	**1731565**	50
MCV 1,5/11-G-3,5-RN	**1731578**	50
MCV 1,5/12-G-3,5-RN	**1731581**	50
MCV 1,5/13-G-3,5-RN	**1731594**	50
MCV 1,5/14-G-3,5-RN	**1731604**	50
MCV 1,5/15-G-3,5-RN	**1731617**	50
MCV 1,5/16-G-3,5-RN	**1731620**	50

Ordering data

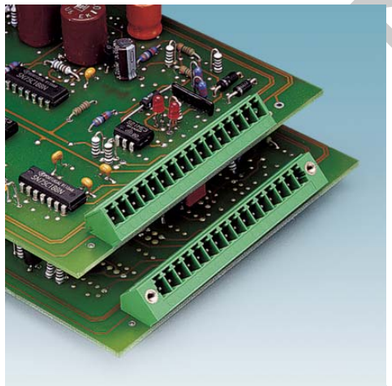
Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
MCV 1,5/ 2-GF-3,5	**1843224**	250
MCV 1,5/ 3-GF-3,5	**1843237**	250
MCV 1,5/ 4-GF-3,5	**1843240**	250
MCV 1,5/ 5-GF-3,5	**1843253**	250
MCV 1,5/ 6-GF-3,5	**1843266**	100
MCV 1,5/ 7-GF-3,5	**1843279**	100
MCV 1,5/ 8-GF-3,5	**1843282**	100
MCV 1,5/ 9-GF-3,5	**1843295**	100
MCV 1,5/10-GF-3,5	**1843305**	100
MCV 1,5/11-GF-3,5	**1843318**	50
MCV 1,5/12-GF-3,5	**1843321**	50
MCV 1,5/13-GF-3,5	**1843334**	50
MCV 1,5/14-GF-3,5	**1843347**	50
MCV 1,5/15-GF-3,5	**1843350**	50
MCV 1,5/16-GF-3,5	**1843363**	50
Pitch 3.81 mm, color: Green		
MCV 1,5/ 2-GF-3,81	**1830596**	250
MCV 1,5/ 3-GF-3,81	**1830606**	250
MCV 1,5/ 4-GF-3,81	**1830619**	250
MCV 1,5/ 5-GF-3,81	**1830622**	250
MCV 1,5/ 6-GF-3,81	**1830635**	100
MCV 1,5/ 7-GF-3,81	**1830648**	100
MCV 1,5/ 8-GF-3,81	**1830651**	100
MCV 1,5/ 9-GF-3,81	**1830664**	100
MCV 1,5/10-GF-3,81	**1830677**	100
MCV 1,5/11-GF-3,81	**1830680**	50
MCV 1,5/12-GF-3,81	**1830693**	50
MCV 1,5/13-GF-3,81	**1830703**	50
MCV 1,5/14-GF-3,81	**1830716**	50
MCV 1,5/15-GF-3,81	**1830729**	50
MCV 1,5/16-GF-3,81	**1830732**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
MCV 1,5/ 2-GF-3,5-LR	**1817990**	50
MCV 1,5/ 3-GF-3,5-LR	**1818009**	50
MCV 1,5/ 4-GF-3,5-LR	**1818012**	50
MCV 1,5/ 5-GF-3,5-LR	**1818025**	50
MCV 1,5/ 6-GF-3,5-LR	**1818038**	50
MCV 1,5/ 7-GF-3,5-LR	**1818041**	50
MCV 1,5/ 8-GF-3,5-LR	**1818054**	50
MCV 1,5/ 9-GF-3,5-LR	**1818067**	50
MCV 1,5/10-GF-3,5-LR	**1818070**	50
MCV 1,5/11-GF-3,5-LR	**1818083**	50
MCV 1,5/12-GF-3,5-LR	**1818096**	50
MCV 1,5/13-GF-3,5-LR	**1818106**	50
MCV 1,5/14-GF-3,5-LR	**1818119**	50
MCV 1,5/15-GF-3,5-LR	**1818122**	50
MCV 1,5/16-GF-3,5-LR	**1818135**	50
Pitch 3.81 mm, color: Green		
MCV 1,5/ 2-GF-3,81-LR	**1818180**	50
MCV 1,5/ 3-GF-3,81-LR	**1818193**	50
MCV 1,5/ 4-GF-3,81-LR	**1818203**	50
MCV 1,5/ 5-GF-3,81-LR	**1818216**	50
MCV 1,5/ 6-GF-3,81-LR	**1818229**	50
MCV 1,5/ 7-GF-3,81-LR	**1818232**	50
MCV 1,5/ 8-GF-3,81-LR	**1818245**	50
MCV 1,5/ 9-GF-3,81-LR	**1818258**	50
MCV 1,5/10-GF-3,81-LR	**1818261**	50
MCV 1,5/11-GF-3,81-LR	**1818274**	50
MCV 1,5/12-GF-3,81-LR	**1818287**	50
MCV 1,5/13-GF-3,81-LR	**1818290**	50
MCV 1,5/14-GF-3,81-LR	**1818300**	50
MCV 1,5/15-GF-3,81-LR	**1818313**	50
MCV 1,5/16-GF-3,81-LR	**1818326**	50

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Single-level header for the wave soldering processes



- Low-profile pin strips with compact pitches
- Plug-in direction at an angle of 45° to the PCB
- 45° angle makes it easier to plug in the connector in restricted spaces
- Versions with and without a threaded flange

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

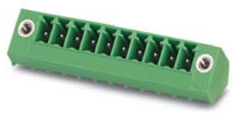
COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 182.

Accessories

For all types	Type	Page
	Keying profile **CP-MSTB** **Order No. 1734634**	38
	Marker cards **SK 3,81/2,8**	797

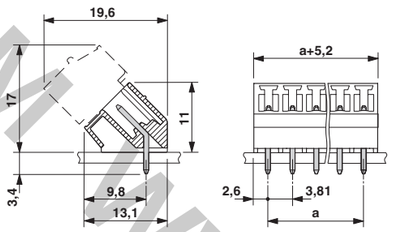


Plug-in direction 45° to the PCB

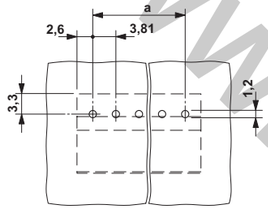


With threaded flange, plug-in direction 45° to the PCB

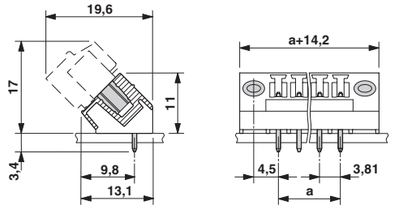
Dimensional drawing



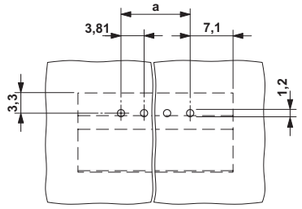
Drilling diagram



Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current	[A]	8		
Rated insulation voltage for pollution degree 2	[V]	160		
Pitch	[mm]	3.81		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	160	160	320
Rated surge voltage	[kV]	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	8	-	8
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	8	-	8
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.2 / 0,8 x 0,8 mm		

No. of pos.	Dim. a [mm]
2	3.81
3	7.62
4	11.43
5	15.24
6	19.05
7	22.86
8	26.67
9	30.48
10	34.29
11	38.10
12	41.91
13	45.72
14	49.53
15	53.34
16	57.15

Ordering data

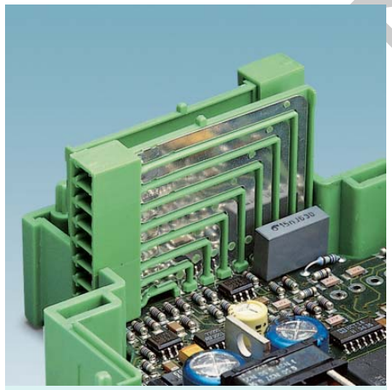
Type	Order No.	Pcs. / Pkt.
Pitch 3.81 mm, color: Green		
SMC 1,5/ 2-G-3,81	**1827279**	50
SMC 1,5/ 3-G-3,81	**1827282**	50
SMC 1,5/ 4-G-3,81	**1827295**	50
SMC 1,5/ 5-G-3,81	**1827305**	50
SMC 1,5/ 6-G-3,81	**1827318**	50
SMC 1,5/ 7-G-3,81	**1827321**	50
SMC 1,5/ 8-G-3,81	**1827334**	50
SMC 1,5/ 9-G-3,81	**1827347**	50
SMC 1,5/10-G-3,81	**1827350**	50
SMC 1,5/11-G-3,81	**1827363**	50
SMC 1,5/12-G-3,81	**1827376**	50
SMC 1,5/13-G-3,81	**1827389**	50
SMC 1,5/14-G-3,81	**1827392**	50
SMC 1,5/15-G-3,81	**1827402**	50
SMC 1,5/16-G-3,81	**1827415**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 3.81 mm, color: Green		
SMC 1,5/ 2-GF-3,81	**1827428**	50
SMC 1,5/ 3-GF-3,81	**1827431**	50
SMC 1,5/ 4-GF-3,81	**1827444**	50
SMC 1,5/ 5-GF-3,81	**1827457**	50
SMC 1,5/ 6-GF-3,81	**1827460**	50
SMC 1,5/ 7-GF-3,81	**1827473**	50
SMC 1,5/ 8-GF-3,81	**1827486**	50
SMC 1,5/ 9-GF-3,81	**1827499**	50
SMC 1,5/10-GF-3,81	**1827509**	50
SMC 1,5/11-GF-3,81	**1827512**	50
SMC 1,5/12-GF-3,81	**1827525**	50
SMC 1,5/13-GF-3,81	**1827538**	50
SMC 1,5/14-GF-3,81	**1827541**	50
SMC 1,5/15-GF-3,81	**1827554**	50
SMC 1,5/16-GF-3,81	**1827567**	50

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Single-level header for the wave soldering processes



- Space-saving header
- Pin strip perpendicular (orthogonal) to the PCB
- Pitch: 3.81 mm

MCO 1,5/…-GL
- The PCB is to the left of the header

MCO 1,5/…-GR
- The PCB is to the right of the header

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

Dimension b:
3-pos. = 7.00 mm
4-pos. = 10.50 mm
5-pos. = 14.00 mm
6-pos. = 17.50 mm
7-pos. = 21.00 mm
8-pos. = 24.50 mm
9-pos. = 28.00 mm
10-pos. = 31.50 mm



Pin strip leading off at a right angle "PCB on the left"

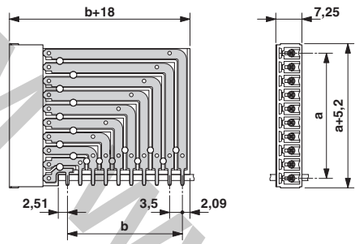


Pin strip leading off at a right angle "PCB on the right"

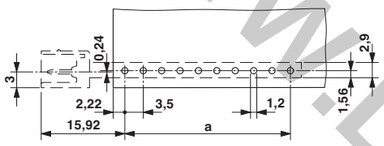
Accessories

For all types	Type	Page
	Keying profile **CP-MSTB** **Order No. 1734634**	38

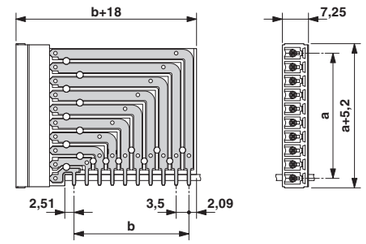
Dimensional drawing



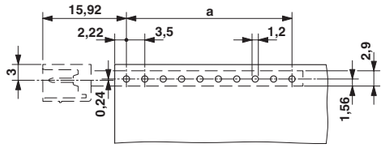
Drilling diagram



Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current	[A]	8		
Rated insulation voltage for pollution degree 2	[V]	160		
Pitch	[mm]	3.81		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	125	160	200
Rated surge voltage	[kV]	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	8	-	8
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		PA (PBT) / IIIa		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1 / 0,9 x 0,32 mm		

No. of pos.	Dim. a [mm]
3	7.62
4	11.43
5	15.24
6	19.05
7	22.86
8	26.67
9	30.48
10	34.29

Ordering data

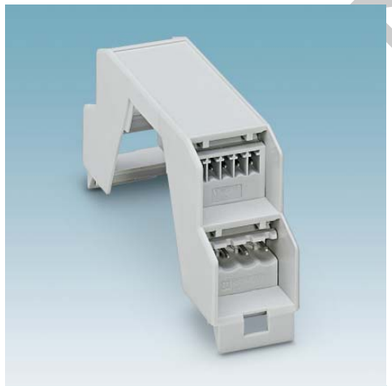
Type	Order No.	Pcs. / Pkt.
Pitch 3.81 mm, color: Green		
MCO 1,5/ 3-GL-3,81	**1861730**	50
MCO 1,5/ 4-GL-3,81	**1861743**	50
MCO 1,5/ 5-GL-3,81	**1861756**	50
MCO 1,5/ 6-GL-3,81	**1861769**	50
MCO 1,5/ 7-GL-3,81	**1861772**	50
MCO 1,5/ 8-GL-3,81	**1861785**	50
MCO 1,5/ 9-GL-3,81	**1861798**	50
MCO 1,5/10-GL-3,81	**1861808**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 3.81 mm, color: Green		
MCO 1,5/ 3-GR-3,81	**1861659**	50
MCO 1,5/ 4-GR-3,81	**1861662**	50
MCO 1,5/ 5-GR-3,81	**1861675**	50
MCO 1,5/ 6-GR-3,81	**1861688**	50
MCO 1,5/ 7-GR-3,81	**1861691**	50
MCO 1,5/ 8-GR-3,81	**1861701**	50
MCO 1,5/ 9-GR-3,81	**1861714**	50
MCO 1,5/10-GR-3,81	**1861727**	50

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Orthogonal headers for wave soldering processes



- Headers for ME and ME MAX electronic housings
- Plug-in direction orthogonal to the PCB
- Pitch: 3.5 mm
- "Left" and "right" design
- Number of positions between 3 and 5

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 182.

Accessories

For all types	Type	Page
	Keying section **CR-MSTBO G1** **Order No.** **2199618**	38

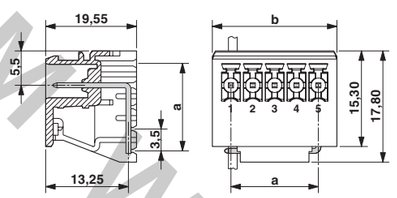


Pin strip leading off at a right angle "left"

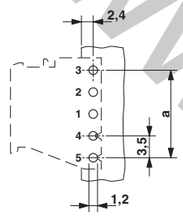


Pin strip leading off at a right angle "right"

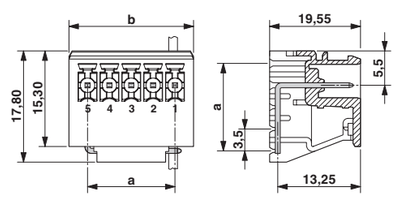
Dimensional drawing



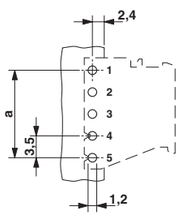
Drilling diagram



Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current	[A]	8		
Rated insulation voltage for pollution degree 2	[V]	160		
Pitch	[mm]	3.5		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	160	160	320
Rated surge voltage	[kV]	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	8	-	8
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.2 / 0,8 x 0,8 mm		

No. of pos.	Dim. a [mm]
3	7.00
4	10.50
5	14.00

Ordering data

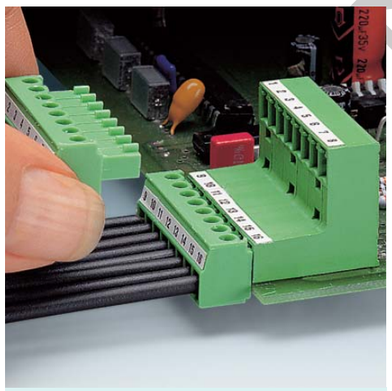
Type	Order No.	Pcs. / Pkt.
COMBICON headers, left, pitch: 3.5 mm,color: light gray		
MCO 1,5/ 3-G1L-3,5 KMGY	**2278319**	50
MCO 1,5/ 4-G1L-3,5 KMGY	**2278364**	50
MCO 1,5/ 5-G1L-3,5 KMGY	**2278380**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
COMBICON headers, right, pitch: 3.5 mm, color: light gray		
MCO 1,5/ 3-G1R-3,5 KMGY	**2278322**	50
MCO 1,5/ 4-G1R-3,5 KMGY	**2278377**	50
MCO 1,5/ 5-G1R-3,5 KMGY	**2278351**	50

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Double-level header for the wave soldering processes



- Low-profile double-level headers with high contact density
- Plug-in direction parallel to the PCB
- Versions with and without a threaded flange

MCD 1,5/...-G-3,81
- With offset levels
- Improved view and accessibility to the lower level

MCD 1,5/…-G1-3,81
- Without a level offset, for flush installation in the front of the devices

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 182.

Accessories

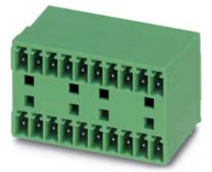
For all types	Type	Page
	Keying profile **CP-MSTB Order No. 1734634**	38
	Marker cards **SK 3,81/2,8**	797



With offset levels



With offset levels and threaded flange

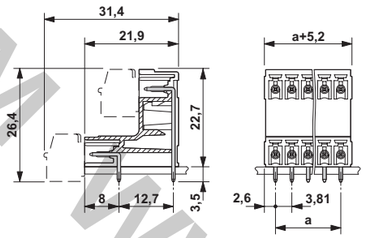


Without offset levels

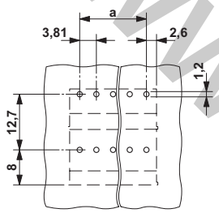


Without offset levels, with threaded flange

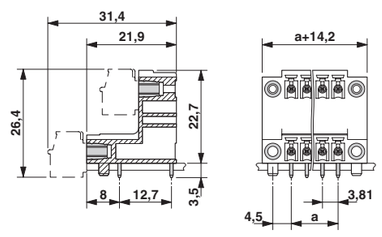
Dimensional drawing



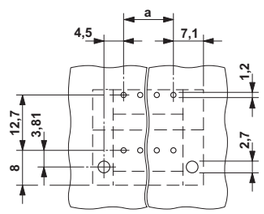
Drilling diagram



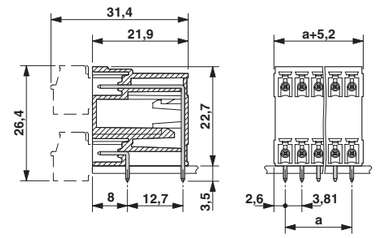
Dimensional drawing



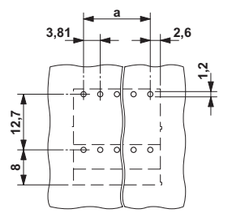
Drilling diagram



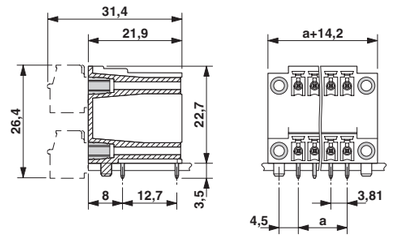
Dimensional drawing



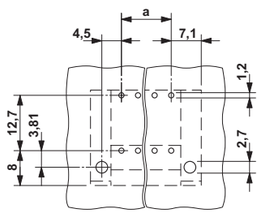
Drilling diagram



Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current	[A]	8		
Rated insulation voltage for pollution degree 2	[V]	160		
Pitch	[mm]	3.81		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	160	160	250
Rated surge voltage	[kV]	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	8	-	8
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	8	-	8
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.2 / 0,8 x 0,8 mm		

No. of pos.	Dim. a [mm]
2	3.81
3	7.62
4	11.43
5	15.24
6	19.05
7	22.86
8	26.67
9	30.48
10	34.29
11	38.10
12	41.91
13	45.72
14	49.53
15	53.34
16	57.15

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 3.81 mm, color: Green		
MCD 1,5/ 2-G-3,81	**1829950**	50
MCD 1,5/ 3-G-3,81	**1829963**	50
MCD 1,5/ 4-G-3,81	**1829976**	50
MCD 1,5/ 5-G-3,81	**1829989**	50
MCD 1,5/ 6-G-3,81	**1829992**	50
MCD 1,5/ 7-G-3,81	**1830004**	50
MCD 1,5/ 8-G-3,81	**1830017**	50
MCD 1,5/ 9-G-3,81	**1830020**	50
MCD 1,5/10-G-3,81	**1830033**	50
MCD 1,5/11-G-3,81	**1830046**	50
MCD 1,5/12-G-3,81	**1830059**	50
MCD 1,5/13-G-3,81	**1830062**	50
MCD 1,5/14-G-3,81	**1830075**	50
MCD 1,5/15-G-3,81	**1830088**	50
MCD 1,5/16-G-3,81	**1830091**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 3.81 mm, color: Green		
MCD 1,5/ 2-GF-3,81	**1830101**	50
MCD 1,5/ 3-GF-3,81	**1830114**	50
MCD 1,5/ 4-GF-3,81	**1830127**	50
MCD 1,5/ 5-GF-3,81	**1830130**	50
MCD 1,5/ 6-GF-3,81	**1830143**	50
MCD 1,5/ 7-GF-3,81	**1830156**	50
MCD 1,5/ 8-GF-3,81	**1830169**	50
MCD 1,5/ 9-GF-3,81	**1830172**	50
MCD 1,5/10-GF-3,81	**1830185**	50
MCD 1,5/11-GF-3,81	**1830198**	50
MCD 1,5/12-GF-3,81	**1830208**	50
MCD 1,5/13-GF-3,81	**1830211**	50
MCD 1,5/14-GF-3,81	**1830224**	50
MCD 1,5/15-GF-3,81	**1830237**	50
MCD 1,5/16-GF-3,81	**1830240**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 3.81 mm, color: Green		
MCD 1,5/ 2-G1-3,81	**1843075**	50
MCD 1,5/ 3-G1-3,81	**1843088**	50
MCD 1,5/ 4-G1-3,81	**1843091**	50
MCD 1,5/ 5-G1-3,81	**1843101**	50
MCD 1,5/ 6-G1-3,81	**1843114**	50
MCD 1,5/ 7-G1-3,81	**1843127**	50
MCD 1,5/ 8-G1-3,81	**1843130**	50
MCD 1,5/ 9-G1-3,81	**1843143**	50
MCD 1,5/10-G1-3,81	**1843156**	50
MCD 1,5/11-G1-3,81	**1843169**	50
MCD 1,5/12-G1-3,81	**1843172**	50
MCD 1,5/13-G1-3,81	**1843185**	50
MCD 1,5/14-G1-3,81	**1843198**	50
MCD 1,5/15-G1-3,81	**1843208**	50
MCD 1,5/16-G1-3,81	**1843211**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 3.81 mm, color: Green		
MCD 1,5/ 2-G1F-3,81	**1842911**	50
MCD 1,5/ 3-G1F-3,81	**1842924**	50
MCD 1,5/ 4-G1F-3,81	**1842937**	50
MCD 1,5/ 5-G1F-3,81	**1842940**	50
MCD 1,5/ 6-G1F-3,81	**1842953**	50
MCD 1,5/ 7-G1F-3,81	**1842966**	50
MCD 1,5/ 8-G1F-3,81	**1842979**	50
MCD 1,5/ 9-G1F-3,81	**1842982**	50
MCD 1,5/10-G1F-3,81	**1842995**	50
MCD 1,5/11-G1F-3,81	**1843004**	50
MCD 1,5/12-G1F-3,81	**1843017**	50
MCD 1,5/13-G1F-3,81	**1843033**	50
MCD 1,5/14-G1F-3,81	**1843046**	50
MCD 1,5/15-G1F-3,81	**1843059**	50
MCD 1,5/16-G1F-3,81	**1843062**	50

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Double-level header for the wave soldering processes



- Low-profile double-level headers with high contact density
- Plug-in direction vertical to the PCB
- Versions with and without a threaded flange

MCDV 1,5/…-G-3,81
- With offset levels
- Improved view and accessibility to the lower level

MCDV 1,5/…-G1-3,81
- Without a level offset, for flush installation in the front of the devices

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 182.

Mounting screws for base element with threaded flange (....GF...): sheet metal screw ISO 1481-ST 2,2x6,5 C or ISO 7049-ST 2,2x6,5 C. Screw connection only permitted prior to soldering.

Accessories

For all types	Type	Page
	Keying profile **CP-MSTB** **Order No. 1734634**	38
	Marker cards **SK 3,81/2,8**	797



With offset levels



With offset levels and threaded flange

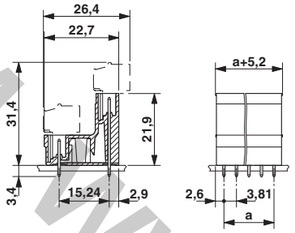


Without offset levels

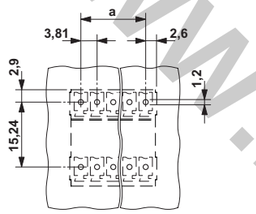


Without offset levels, with threaded flange

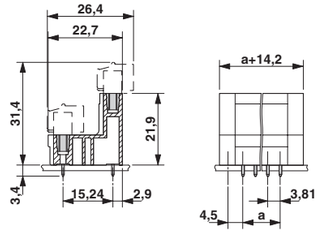
Dimensional drawing



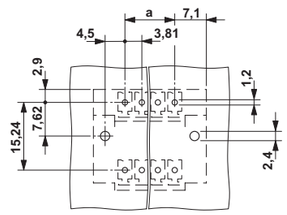
Drilling diagram



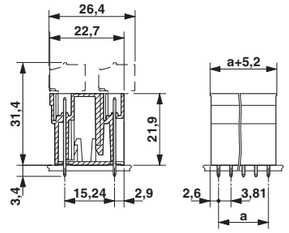
Dimensional drawing



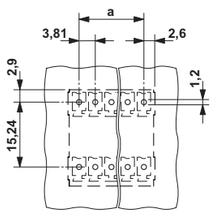
Drilling diagram



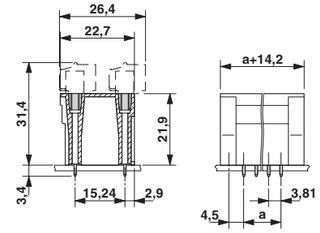
Dimensional drawing



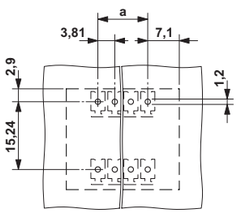
Drilling diagram



Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current	[A]	8		
Rated insulation voltage for pollution degree 2	[V]	160		
Pitch	[mm]	3.81		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	160	160	250
Rated surge voltage	[kV]	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	8	-	8
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	8	-	8
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.2 / 0,8 x 0,8 mm		

No. of pos.	Dim. a [mm]
2	3.81
3	7.62
4	11.43
5	15.24
6	19.05
7	22.86
8	26.67
9	30.48
10	34.29
11	38.10
12	41.91
13	45.72
14	49.53
15	53.34
16	57.15

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 3.81 mm, color: Green		
MCDV 1,5/ 2-G-3,81	1830402	50
MCDV 1,5/ 3-G-3,81	1830415	50
MCDV 1,5/ 4-G-3,81	1830428	50
MCDV 1,5/ 5-G-3,81	1830431	50
MCDV 1,5/ 6-G-3,81	1830444	50
MCDV 1,5/ 7-G-3,81	1830457	50
MCDV 1,5/ 8-G-3,81	1830460	50
MCDV 1,5/ 9-G-3,81	1830473	50
MCDV 1,5/10-G-3,81	1830486	50
MCDV 1,5/11-G-3,81	1830499	50
MCDV 1,5/12-G-3,81	1830509	50
MCDV 1,5/13-G-3,81	1830512	50
MCDV 1,5/14-G-3,81	1830525	50
MCDV 1,5/15-G-3,81	1830538	50
MCDV 1,5/16-G-3,81	1830541	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 3.81 mm, color: Green		
MCDV 1,5/ 2-GF-3,81	1830253	50
MCDV 1,5/ 3-GF-3,81	1830266	50
MCDV 1,5/ 4-GF-3,81	1830279	50
MCDV 1,5/ 5-GF-3,81	1830282	50
MCDV 1,5/ 6-GF-3,81	1830295	50
MCDV 1,5/ 7-GF-3,81	1830305	50
MCDV 1,5/ 8-GF-3,81	1830318	50
MCDV 1,5/ 9-GF-3,81	1830321	50
MCDV 1,5/10-GF-3,81	1830334	50
MCDV 1,5/11-GF-3,81	1830347	50
MCDV 1,5/12-GF-3,81	1830350	50
MCDV 1,5/13-GF-3,81	1830363	50
MCDV 1,5/14-GF-3,81	1830376	50
MCDV 1,5/15-GF-3,81	1830389	50
MCDV 1,5/16-GF-3,81	1830392	50

Ordering data

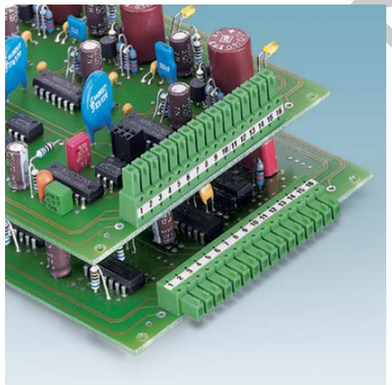
Type	Order No.	Pcs. / Pkt.
Pitch 3.81 mm, color: Green		
MCDV 1,5/ 2-G1-3,81	1847725	50
MCDV 1,5/ 3-G1-3,81	1847738	50
MCDV 1,5/ 4-G1-3,81	1847741	50
MCDV 1,5/ 5-G1-3,81	1847754	50
MCDV 1,5/ 6-G1-3,81	1847767	50
MCDV 1,5/ 7-G1-3,81	1847783	50
MCDV 1,5/ 8-G1-3,81	1847796	50
MCDV 1,5/ 9-G1-3,81	1847806	50
MCDV 1,5/10-G1-3,81	1847819	50
MCDV 1,5/11-G1-3,81	1847822	50
MCDV 1,5/12-G1-3,81	1847835	50
MCDV 1,5/13-G1-3,81	1847848	50
MCDV 1,5/14-G1-3,81	1847851	50
MCDV 1,5/15-G1-3,81	1847864	50
MCDV 1,5/16-G1-3,81	1847877	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 3.81 mm, color: Green		
MCDV 1,5/ 2-G1F-3,81	1842762	50
MCDV 1,5/ 3-G1F-3,81	1842775	50
MCDV 1,5/ 4-G1F-3,81	1842788	50
MCDV 1,5/ 5-G1F-3,81	1842791	50
MCDV 1,5/ 6-G1F-3,81	1842801	50
MCDV 1,5/ 7-G1F-3,81	1842814	50
MCDV 1,5/ 8-G1F-3,81	1842827	50
MCDV 1,5/ 9-G1F-3,81	1842830	50
MCDV 1,5/10-G1F-3,81	1842843	50
MCDV 1,5/11-G1F-3,81	1842856	50
MCDV 1,5/12-G1F-3,81	1842869	50
MCDV 1,5/13-G1F-3,81	1842872	50
MCDV 1,5/14-G1F-3,81	1842885	50
MCDV 1,5/15-G1F-3,81	1842898	50
MCDV 1,5/16-G1F-3,81	1842908	50

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Inverted header for the wave soldering processes



- Use in contact protected applications
- Plug-in direction horizontal and vertical to the PCB
- Combination with MC 1,5 pin strips for primary/secondary/PCB connection
- Clear separation of PCB inputs/outputs
- Individual position coding by removing the keying tab and by connecting the keying profile to the counterpart

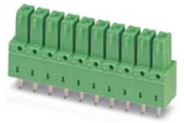
Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 182.



Plug-in direction parallel to the PCB

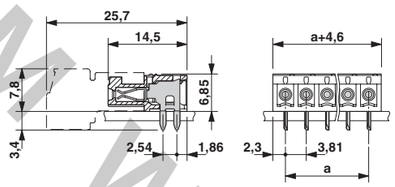


Plug-in direction vertical to the PCB

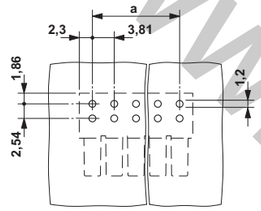
Accessories

For all types	Type	Page
	Marker cards **SK 3,81/2,8**	797

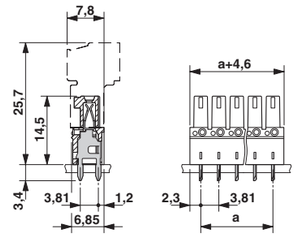
Dimensional drawing



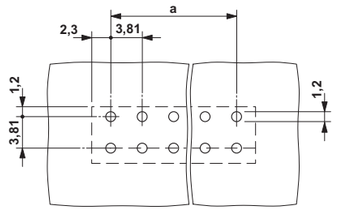
Drilling diagram



Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current	[A]	8		
Rated insulation voltage for pollution degree 2	[V]	160		
Pitch	[mm]	3.81		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	160	160	320
Rated surge voltage	[kV]	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	8	-	8
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.2 / 0,8 x 0,8 mm		

No. of pos.	Dim. a [mm]
2	3.81
3	7.62
4	11.43
5	15.24
6	19.05
7	22.86
8	26.67
9	30.48
10	34.29
11	38.10
12	41.91
13	45.72
14	49.53
15	53.34
16	57.15

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 3.81 mm, color: Green		
IMC 1,5/ 2-G-3,81	**1862577**	50
IMC 1,5/ 3-G-3,81	**1862580**	50
IMC 1,5/ 4-G-3,81	**1862593**	50
IMC 1,5/ 5-G-3,81	**1862603**	50
IMC 1,5/ 6-G-3,81	**1862616**	50
IMC 1,5/ 7-G-3,81	**1862629**	50
IMC 1,5/ 8-G-3,81	**1862632**	50
IMC 1,5/ 9-G-3,81	**1862645**	50
IMC 1,5/10-G-3,81	**1862658**	50
IMC 1,5/11-G-3,81	**1862661**	50
IMC 1,5/12-G-3,81	**1862674**	50
IMC 1,5/13-G-3,81	**1862687**	50
IMC 1,5/14-G-3,81	**1862690**	50
IMC 1,5/15-G-3,81	**1862700**	50
IMC 1,5/16-G-3,81	**1862713**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 3.81 mm, color: Green		
IMCV 1,5/ 2-G-3,81	**1875425**	50
IMCV 1,5/ 3-G-3,81	**1875438**	50
IMCV 1,5/ 4-G-3,81	**1875441**	50
IMCV 1,5/ 5-G-3,81	**1875454**	50
IMCV 1,5/ 6-G-3,81	**1875467**	50
IMCV 1,5/ 7-G-3,81	**1875470**	50
IMCV 1,5/ 8-G-3,81	**1875483**	50
IMCV 1,5/ 9-G-3,81	**1875496**	50
IMCV 1,5/10-G-3,81	**1875506**	50
IMCV 1,5/11-G-3,81	**1875519**	50
IMCV 1,5/12-G-3,81	**1875522**	50
IMCV 1,5/13-G-3,81	**1875535**	50
IMCV 1,5/14-G-3,81	**1875548**	50
IMCV 1,5/15-G-3,81	**1875551**	50
IMCV 1,5/16-G-3,81	**1875564**	50

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Header for panel feed-throughs



- Header for assembly in a device/housing panel
- Outer plug-in connection for corresponding connectors with 3.81 mm pitch
- Internal optional solder or 2.8 mm slip-on connection
- Separate screw connection with the device/housing wall

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 182.

Sheet metal cutout dimensions b and c, refer to page 838.



With threaded flange, with solder or slip-on connection for housing walls 0.5 to 4 mm thick

Accessories

For all types	Type	Page
	Keying profile **CP-MSTB Order No. 1734634**	38
	Marker cards **SK 3,81/2,8**	797
	Screwdriver **SZS 0,4 x 2,5 Order No. 1205037**	
	M2 x 8 mm screw set **DFK-MC-SS Order No. 0710015**	

Dimensional drawing

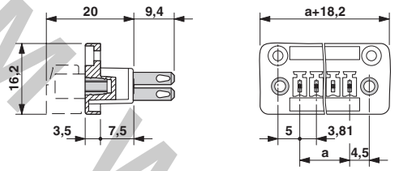


Plate cutout

Dimension b: 6.19 mm + (no. of pos. x 3.81 mm)
Dimension c: Dim. b + 4.7 mm

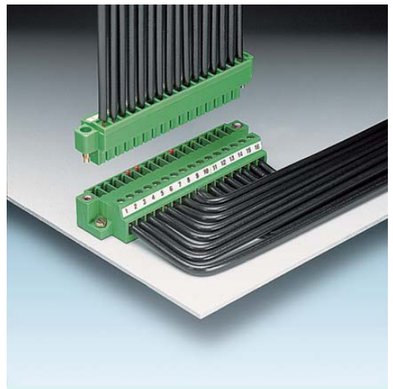
Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	8 / 1.5		
Rated insulation voltage for pollution degree 2	[V]	160		
Pitch	[mm]	3.81		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	160	160	320
Rated surge voltage	[kV]	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	8	-	8
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	150	-	150
Nominal current	[A]	8	-	8
Connection capacity AWG	AWG	28 - 16	-	28 - 16
General data				
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		
Slip-on connection (DIN 46249-1)	[A]/[mm]	- / 2,8 x 0,8 mm		

Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		Pitch 3.81 mm, color: Green		
2	3.81	**DFK-MC 1,5/ 2-GF-3,81**	**1829345**	50
3	7.62	**DFK-MC 1,5/ 3-GF-3,81**	**1829358**	50
4	11.43	**DFK-MC 1,5/ 4-GF-3,81**	**1829361**	50
5	15.24	**DFK-MC 1,5/ 5-GF-3,81**	**1829374**	50
6	19.05	**DFK-MC 1,5/ 6-GF-3,81**	**1829387**	50
7	22.86	**DFK-MC 1,5/ 7-GF-3,81**	**1829390**	50
8	26.67	**DFK-MC 1,5/ 8-GF-3,81**	**1827596**	50
9	30.48	**DFK-MC 1,5/ 9-GF-3,81**	**1829400**	50
10	34.29	**DFK-MC 1,5/10-GF-3,81**	**1829413**	50
11	38.10	**DFK-MC 1,5/11-GF-3,81**	**1829426**	50
12	41.91	**DFK-MC 1,5/12-GF-3,81**	**1829439**	50
13	45.72	**DFK-MC 1,5/13-GF-3,81**	**1829442**	50
14	49.53	**DFK-MC 1,5/14-GF-3,81**	**1829455**	50
15	53.34	**DFK-MC 1,5/15-GF-3,81**	**1829468**	50
16	57.15	**DFK-MC 1,5/16-GF-3,81**	**1829471**	50

Header for direct mounting



- Direct plug-in block with mounting flanges for screw connection on mounting plates or unit housings
- Shock-proof connection block in combination with MC plug-in system
- Design with a threaded flange

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 182.

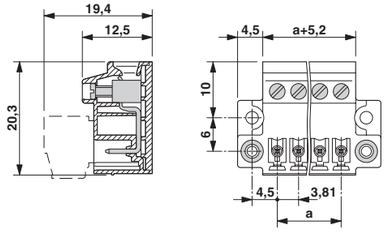


With threaded flange and flange for direct mounting

Accessories

For all types	Type	Page
	Keying profile **CP-MSTB Order No. 1734634**	38
	Marker cards **SK 3,81/2,8**	797
	Screwdriver **SZS 0,4 x 2,5 Order No. 1205037**	

Dimensional drawing



Drilling diagram

Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	8 / 1.5		
Rated insulation voltage for pollution degree 2	[V]	160		
Pitch	[mm]	3.81		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	0.14 - 1.5 / 0.14 - 1.5 / 28 - 16		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 1.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 0.5		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	0.14 - 0.5 / 0.14 - 0.75		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 0.34		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 0.5		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	160	160	320
Rated surge voltage	[kV]	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	8	-	8
Connection capacity AWG	AWG	30 - 14	-	30 - 14
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	8	-	8
Connection capacity AWG	AWG	28 - 16	-	28 - 16
General data				
Stripping length	[mm]	7		
Screw thread		M2		
Tightening torque	[Nm]	0.22 - 0.25		
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		

Ordering data

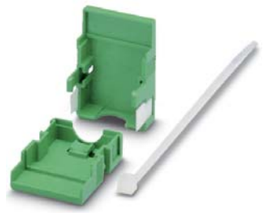
No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		Pitch 3.81 mm, color: Green		
2	3.81	**MCVU 1,5/ 2-GFD-3,81**	**1833027**	50
3	7.62	**MCVU 1,5/ 3-GFD-3,81**	**1833030**	50
4	11.43	**MCVU 1,5/ 4-GFD-3,81**	**1833043**	50
5	15.24	**MCVU 1,5/ 5-GFD-3,81**	**1833056**	50
6	19.05	**MCVU 1,5/ 6-GFD-3,81**	**1833069**	50
7	22.86	**MCVU 1,5/ 7-GFD-3,81**	**1833072**	50
8	26.67	**MCVU 1,5/ 8-GFD-3,81**	**1833085**	50
9	30.48	**MCVU 1,5/ 9-GFD-3,81**	**1833098**	50
10	34.29	**MCVU 1,5/10-GFD-3,81**	**1833108**	50
11	38.10	**MCVU 1,5/11-GFD-3,81**	**1833111**	50
12	41.91	**MCVU 1,5/12-GFD-3,81**	**1833124**	50
13	45.72	**MCVU 1,5/13-GFD-3,81**	**1833137**	50
14	49.53	**MCVU 1,5/14-GFD-3,81**	**1833140**	50
15	53.34	**MCVU 1,5/15-GFD-3,81**	**1833153**	50
16	57.15	**MCVU 1,5/16-GFD-3,81**	**1833166**	50

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Cable housings



- For MC or IMC plugs with and without flange, with 3.81 mm pitch
- Complete snap-locking of the two half shells of the cable housing
- Cable strain relief using cable binder or cable clamp
- Straight cable outlet for aligning multiple cable housings
- Easier plugging and unplugging processes
- Incl. cable binders and marker strips for all numbers of positions
- Incl. transparent label carriers from 6- to 16-pos.



2- to 5-pos., for cable diameters up to 5 mm with 2-pos. housings, up to 8.5 mm with 3- to 5-pos. housings

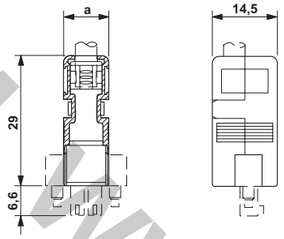


6- to 16-pos., for cable diameters of 4 - 11 mm

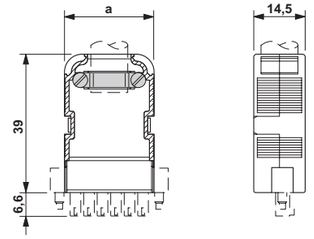
Accessories

For all types	Type	Page
	Simplex marking card **SBS 10:Unprinted** **Order No.** **1007248**	
Only for KGG-MC 1,5/...		
	Transparent marker carrier **KGG-MC 1,5/DST** **Order No.** **1839050**	

Dimensional drawing



Dimensional drawing



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	- / -		
Rated insulation voltage for pollution degree 2	[V]	-		
Pitch	[mm]	3.81		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]			
Rated surge voltage	[kV]			
General data				
Type of insulation material / insulation material group		ABS / I		
Inflammability class according to UL 94		HB		

No. of pos.	Dim. a [mm]
2	10.01
3	13.82
4	17.63
5	21.44
6	25.25
7	29.09
8	32.87
9	36.68
10	40.49
11	44.30
12	48.11
13	51.92
14	55.73
15	59.54
16	63.35

Ordering data

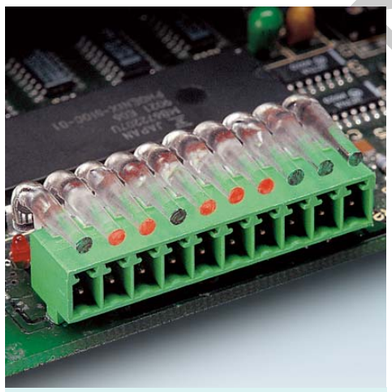
Type	Order No.	Pcs. / Pkt.
Pitch 3.81 mm, color: Green		
KGG-MC 1,5/ 2	**1834343**	10
KGG-MC 1,5/ 3	**1834356**	10
KGG-MC 1,5/ 4	**1834369**	10
KGG-MC 1,5/ 5	**1834372**	10

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 3.81 mm, color: Green		
KGG-MC 1,5/ 6	**1834385**	10
KGG-MC 1,5/ 7	**1834398**	10
KGG-MC 1,5/ 8	**1834408**	10
KGG-MC 1,5/ 9	**1834411**	10
KGG-MC 1,5/10	**1834424**	10
KGG-MC 1,5/11	**1834437**	10
KGG-MC 1,5/12	**1834440**	10
KGG-MC 1,5/13	**1834453**	10
KGG-MC 1,5/14	**1834466**	10
KGG-MC 1,5/15	**1834479**	10
KGG-MC 1,5/16	**1834482**	10

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Fiber optics for headers



- "Bending" the light of the flat SMD LEDs by 90°. This is thus visible from the front
- Snap-locking on the back side of the standard MC header
- 10-pos., can be separated for small numbers of positions
- Pitch: 3.5 and 3.81 mm
- Distance of 1.5, 2.3 and 4.0 mm from the PCB for a possible use of all conventional SMD LEDs

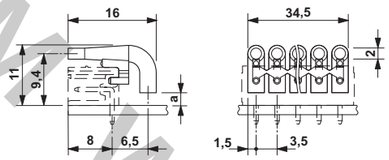


3.5 mm pitch, snapped onto the rear of the MC header

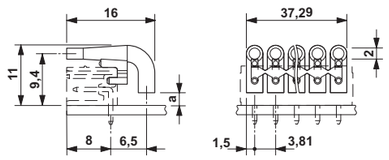


3.81 mm pitch, snapped onto the rear of the MC header

Dimensional drawing



Dimensional drawing



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	- / -		
Rated insulation voltage for pollution degree 2	[V]	-		
Pitch	[mm]	3.5 / 3.81		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]			
Rated surge voltage	[kV]			
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		- / -		
Inflammability class according to UL 94		-		

No. of pos.	Dim. a [mm]
10	1.50
10	2.30
10	4.00

Ordering data

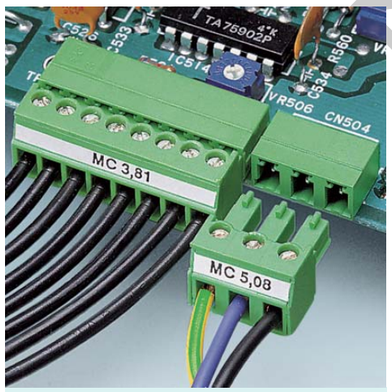
Type	Order No.	Pcs. / Pkt.
Pitch 3.5 mm, color: Transparent		
MC 1,5/10-LWL 1,5-3,5	1841161	50
MC 1,5/10-LWL 2,3-3,5	1841187	50
MC 1,5/10-LWL 4-3,5	1841200	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 3.81 mm, color: Transparent		
MC 1,5/10-LWL 1,5-3,81	1841174	50
MC 1,5/10-LWL 2,3-3,81	1841190	50
MC 1,5/10-LWL 4-3,81	1841213	50

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Plugs with screw connection, pitch 5.08 mm



- High dielectric strength up to 320 V in acc. with III/2
- Flat design of the MC 1,5 connector range
- Plug-in direction parallel to the conductor axis
- Versions with and without a screw flange
- Individual position keying by removing the keying tab and connecting the keying profile to the header
- ST1 version with a plug-in zone with downward offset, locks flush with the lower edge of the housing

Notes:
In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
COMBICON select You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 182.
The maximum torque for the screw flange is 0.3 Nm.
1) Please observe the derating curves. Derating curves of further combination options on request.
2) CSA data for MC 1,5/...-ST(F)-5,08 on request.

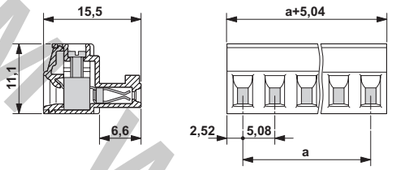
Accessories

For all types	Type	Page
	Screwdriver **SZS 0,4 x 2,5** **Order No.** **1205037**	
	Marker cards **SK 5,08/2,8**	797



With connection area moved to the bottom

Dimensional drawing



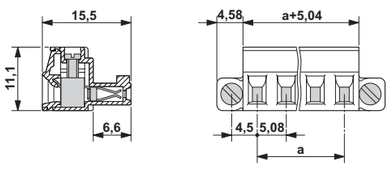
Note derating curves

Derating curves, determined as per DIN EN 61984
(VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 1.5 mm²
Reduction factor = 0.8
Number of positions = see diagram



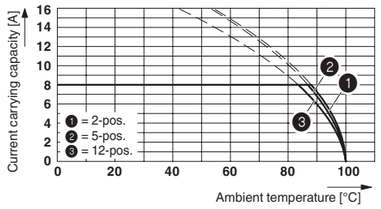
With connection area moved to the bottom, with screw flange

Dimensional drawing



Representative derating curves of the above-mentioned plugs

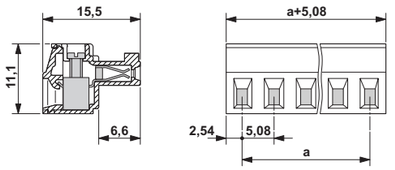
Type: MC 1,5/...-ST1-5,08 with MC 1,5/...-G-5,08



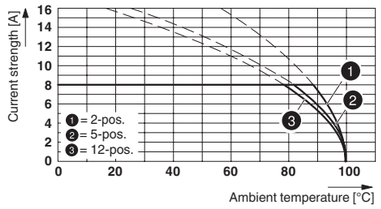


Standard connector

Dimensional drawing



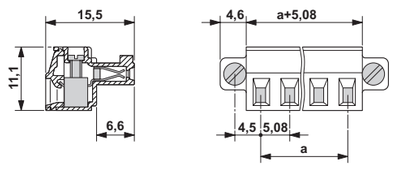
Type: MC 1,5/...-ST-5,08 with MC 1,5/...-G-5,08





With screw flange

Dimensional drawing



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	8[1]) / 1.5		
Rated insulation voltage for pollution degree 2	[V]	320		
Pitch	[mm]	5.08		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	0.14 - 1.5 / 0.14 - 1.5 / 28 - 16		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 1.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 0.5		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	0.08 - 0.5 / 0.08 - 0.75		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 0.34		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 0.5		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250	320	630
Rated surge voltage	[kV]	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	8	-	8
Connection capacity AWG	AWG	30 - 14	-	30 - 14
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Stripping length	[mm]	7		
Screw thread		M2		
Tightening torque	[Nm]	0.22 - 0.25		
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		

Ordering data

No. of pos.	Dim. a [mm]
2	5.08
3	10.16
4	15.24
5	20.32
6	25.40
7	30.48
8	35.56
9	40.64
10	45.72
11	50.80
12	55.88

Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MC 1,5/ 2-ST1-5,08	**1900772**	50
MC 1,5/ 3-ST1-5,08	**1900785**	50
MC 1,5/ 4-ST1-5,08	**1900798**	50
MC 1,5/ 5-ST1-5,08	**1900808**	50
MC 1,5/ 6-ST1-5,08	**1900811**	50
MC 1,5/ 7-ST1-5,08	**1900824**	50
MC 1,5/ 8-ST1-5,08	**1900837**	50
MC 1,5/ 9-ST1-5,08	**1900840**	50
MC 1,5/10-ST1-5,08	**1900853**	50
MC 1,5/11-ST1-5,08	**1900866**	50
MC 1,5/12-ST1-5,08	**1900879**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MC 1,5/ 2-ST1F-5,08	**1900882**	50
MC 1,5/ 3-ST1F-5,08	**1900895**	50
MC 1,5/ 4-ST1F-5,08	**1900905**	50
MC 1,5/ 5-ST1F-5,08	**1900918**	50
MC 1,5/ 6-ST1F-5,08	**1900921**	50
MC 1,5/ 7-ST1F-5,08	**1900934**	50
MC 1,5/ 8-ST1F-5,08	**1900947**	50
MC 1,5/ 9-ST1F-5,08	**1900950**	50
MC 1,5/10-ST1F-5,08	**1900963**	50
MC 1,5/11-ST1F-5,08	**1900976**	50
MC 1,5/12-ST1F-5,08	**1900989**	50

Ordering data

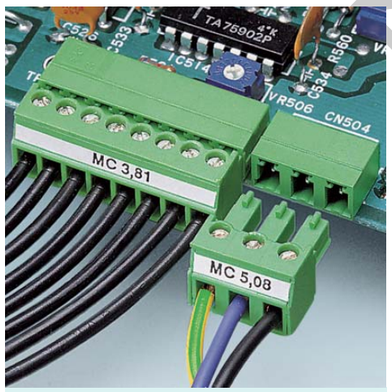
Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MC 1,5/ 2-ST-5,08	**1836079**	50
MC 1,5/ 3-ST-5,08	**1836082**	50
MC 1,5/ 4-ST-5,08	**1836095**	50
MC 1,5/ 5-ST-5,08	**1836105**	50
MC 1,5/ 6-ST-5,08	**1836118**	50
MC 1,5/ 7-ST-5,08	**1836121**	50
MC 1,5/ 8-ST-5,08	**1836134**	50
MC 1,5/ 9-ST-5,08	**1836147**	50
MC 1,5/10-ST-5,08	**1836150**	50
MC 1,5/11-ST-5,08	**1836163**	50
MC 1,5/12-ST-5,08	**1836176**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MC 1,5/ 2-STF-5,08	**1847356**	50
MC 1,5/ 3-STF-5,08	**1847369**	50
MC 1,5/ 4-STF-5,08	**1847372**	50
MC 1,5/ 5-STF-5,08	**1847385**	50
MC 1,5/ 6-STF-5,08	**1847398**	50
MC 1,5/ 7-STF-5,08	**1847408**	50
MC 1,5/ 8-STF-5,08	**1847411**	50
MC 1,5/ 9-STF-5,08	**1847424**	50
MC 1,5/10-STF-5,08	**1847437**	50
MC 1,5/11-STF-5,08	**1847440**	50
MC 1,5/12-STF-5,08	**1847453**	50

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A header with a 5.08 mm pitch for wave soldering processes



- High dielectric strength up to 320 V in acc. with III/2
- Low-profile header
- Plug-in direction parallel and vertical to the PCB
- Versions with and without a threaded flange
- Individual position keying by inserting the keying profiles

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

Mounting screws for MCV 1,5/...-GF-5,08: sheet metal screw ISO 1481-ST 2,2x4,5 C or ISO 7049-ST 2,2x4,5 C. Screw connection only permitted prior to soldering.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 182.

Accessories

For all types	Type	Page
	Keying profile **CP-MSTB Order No. 1734634**	38
	Marker cards **SK 5,08/2,8**	797



Plug-in direction parallel to the PCB



Plug-in direction vertical to the PCB

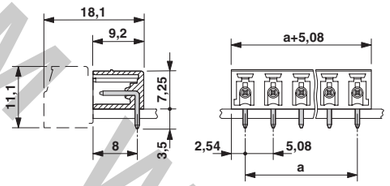


With threaded flange, plug-in direction parallel to the PCB

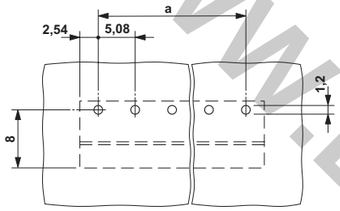


With threaded flange, plug-in direction vertical to the PCB

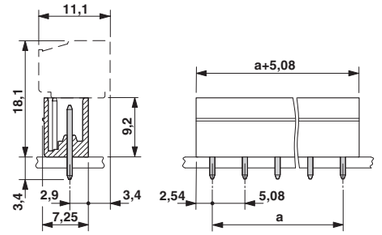
Dimensional drawing



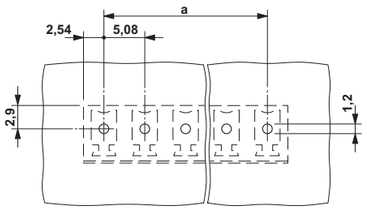
Drilling diagram



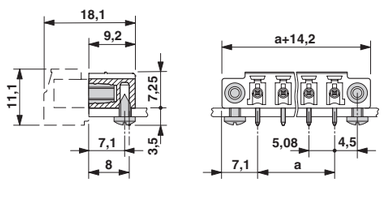
Dimensional drawing



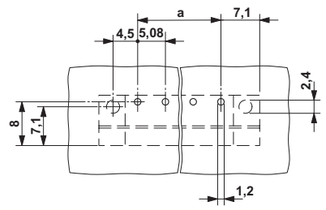
Drilling diagram



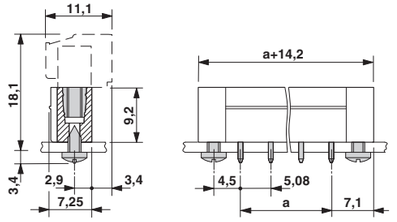
Dimensional drawing



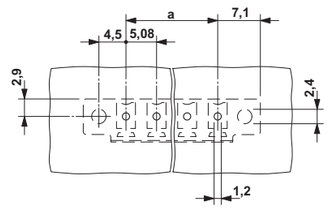
Drilling diagram



Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current	[A]	8		
Rated insulation voltage for pollution degree 2	[V]	320		
Pitch	[mm]	5.08		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250	320	400
Rated surge voltage	[kV]	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	8	-	8
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	8	-	8
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		PBT / IIIa		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.2 / 0,8 x 0,8 mm		

Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		5.08 mm pitch, color: Green		
2	5.08	**MC 1,5/ 2-G-5,08**	**1836189**	50
3	10.16	**MC 1,5/ 3-G-5,08**	**1836192**	50
4	15.24	**MC 1,5/ 4-G-5,08**	**1836202**	50
5	20.32	**MC 1,5/ 5-G-5,08**	**1836215**	50
6	25.40	**MC 1,5/ 6-G-5,08**	**1836228**	50
7	30.48	**MC 1,5/ 7-G-5,08**	**1836231**	50
8	35.56	**MC 1,5/ 8-G-5,08**	**1836244**	50
9	40.64	**MC 1,5/ 9-G-5,08**	**1836257**	50
10	45.72	**MC 1,5/10-G-5,08**	**1836260**	50
11	50.80	**MC 1,5/11-G-5,08**	**1836273**	50
12	55.88	**MC 1,5/12-G-5,08**	**1836286**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MCV 1,5/ 2-G-5,08	**1836299**	50
MCV 1,5/ 3-G-5,08	**1836309**	50
MCV 1,5/ 4-G-5,08	**1836312**	50
MCV 1,5/ 5-G-5,08	**1836325**	50
MCV 1,5/ 6-G-5,08	**1836338**	50
MCV 1,5/ 7-G-5,08	**1836341**	50
MCV 1,5/ 8-G-5,08	**1836354**	50
MCV 1,5/ 9-G-5,08	**1836367**	50
MCV 1,5/10-G-5,08	**1836370**	50
MCV 1,5/11-G-5,08	**1836383**	50
MCV 1,5/12-G-5,08	**1836396**	50

Ordering data

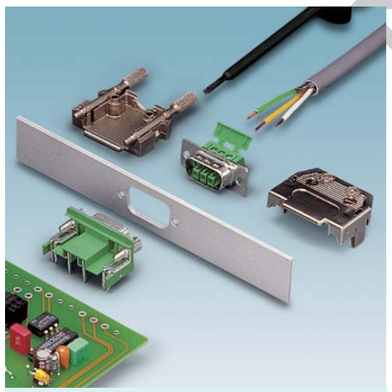
Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MC 1,5/ 2-GF-5,08	**1847466**	50
MC 1,5/ 3-GF-5,08	**1847479**	50
MC 1,5/ 4-GF-5,08	**1847482**	50
MC 1,5/ 5-GF-5,08	**1847495**	50
MC 1,5/ 6-GF-5,08	**1847505**	50
MC 1,5/ 7-GF-5,08	**1847518**	50
MC 1,5/ 8-GF-5,08	**1847521**	50
MC 1,5/ 9-GF-5,08	**1847534**	50
MC 1,5/10-GF-5,08	**1847547**	50
MC 1,5/11-GF-5,08	**1847550**	50
MC 1,5/12-GF-5,08	**1847563**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MCV 1,5/ 2-GF-5,08	**1847615**	50
MCV 1,5/ 3-GF-5,08	**1847628**	50
MCV 1,5/ 4-GF-5,08	**1847631**	50
MCV 1,5/ 5-GF-5,08	**1847644**	50
MCV 1,5/ 6-GF-5,08	**1847657**	50
MCV 1,5/ 7-GF-5,08	**1847660**	50
MCV 1,5/ 8-GF-5,08	**1847673**	50
MCV 1,5/ 9-GF-5,08	**1847686**	50
MCV 1,5/10-GF-5,08	**1847699**	50
MCV 1,5/11-GF-5,08	**1847709**	50
MCV 1,5/12-GF-5,08	**1847712**	50

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SUBCON header with MINI COMBICON connection



- A combination of MINI-COMBICON connectors and the good shielding properties and the geometry of D-SUB connectors
- 3-pos. POWER SUBCON in the shape of the 9-pos. D-SUB
- 5-pos. POWER SUBCON in the shape of the 15-pos. D-SUB
- Can be used in a conventional D-SUB housing

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

When used in metal or metal-plated housing, SELV protection must be used with AC = 25 V and DC = 60 V.

For assembly cutout drawings see page 840.

Accessories

For all types	Type	Page
For PSC 1,5/3-M		
	Keying profile **CP-MSTB** **Order No. 1734634**	38

Technical data

		PSC 1,5/ 3-F			PSC 1,5/ 5-F			PSC 1,5/ 3-M		
Technical data in accordance to IEC / DIN VDE										
Rated current / conductor cross section	[A] / [mm²]	8 / 1.5			8 / 1.5			8		
Rated insulation voltage for pollution degree 2	[V]	-			-			-		
Pitch	[mm]	3.5			3.5			3.5		
Connection capacity										
Solid / stranded	[mm²] / [mm²] / AWG	0.14 - 1.5 / 0.14 - 1.5 / 28 - 16			0.14 - 1.5 / 0.14 - 1.5 / 28 - 16			- / - / -		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 1.5			0.25 - 1.5			-		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 1.5			0.25 - 1.5			-		
Multi-conductor connection capacity (two conductors with the same cross section)										
Solid / stranded	[mm²]	- / -			- / -			- / -		
Stranded with ferrules without plastic sleeve	[mm²]	-			-			-		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	-			-			-		
Insulation coordination										
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250			250			250		
Rated surge voltage	[kV]									
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	300	-	300	300	-	300	300	-	300
Nominal current	[A]	8	-	8	8	-	8	8	-	8
Connection capacity AWG	AWG	30 - 14	-	30 - 14	30 - 14	-	30 - 14	-	-	-
Approval data (CSA)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	300	-	300	300	-	300	300	-	300
Nominal current	[A]	8	-	8	8	-	8	8	-	8
Connection capacity AWG	AWG	28 - 16	-	28 - 16	28 - 16	-	28 - 16	-	-	-
General data										
Screw thread		M2			M2			-		
Tightening torque	[Nm]	0.22 - 0.25			0.22 - 0.25			-		
Type of insulation material / insulation material group		PA / I			PA / I			PA / I		
Inflammability class according to UL 94		V0			V0			V0		

No. of pos.	Dim. a [mm]
3	7.00
5	14.00



Shielded POWER SUBCON connector with screw connection and cover cap

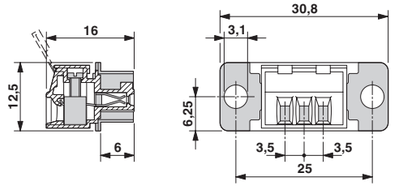


Shielded POWER SUBCON connector with screw connection and cover cap

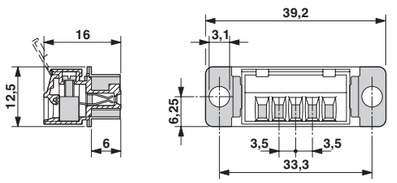


Shielded POWER SUBCON header, for wall thicknesses of up to 4.5 mm, 4-40 UNC fastening thread

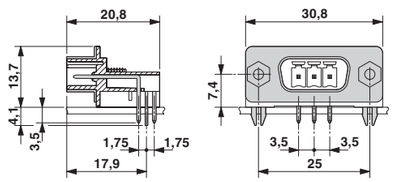
Dimensional drawing



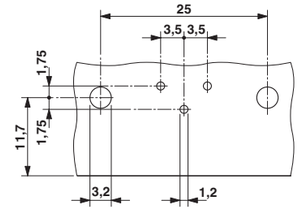
Dimensional drawing



Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
Color: Green		
PSC 1,5/ 3-F	**1841909**	50

Ordering data

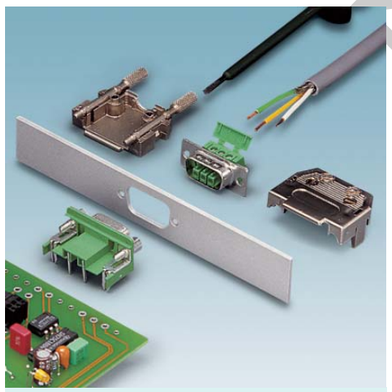
Type	Order No.	Pcs. / Pkt.
Color: Green		
PSC 1,5/ 5-F	**1841912**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Color: Green		
PSC 1,5/ 3-M	**1841857**	50

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SUBCON header with MINI COMBICON connection



- A combination of MINI-COMBICON connectors and the good shielding properties and the geometry of D-SUB connectors
- 3-pos. POWER SUBCON in the shape of the 9-pos. D-SUB
- 5-pos. POWER SUBCON in the shape of the 15-pos. D-SUB
- Can be used in a conventional D-SUB housing
- PSC 1,5/...-M-PE version with leading, medium PE contact

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

When used in metal or metal-plated housing, SELV protection must be used with AC = 25 V and DC = 60 V.

For assembly cutout drawings see page 840.

Accessories

For all types	Type	Page
	Keying profile **CP-MSTB** **Order No. 1734634**	38

Technical data

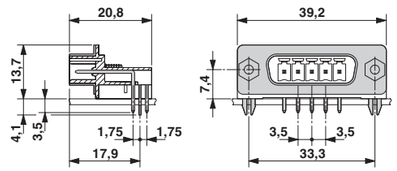
		PSC 1,5/ 5-M			PSC 1,5/ 3-M-PE			PSC 1,5/ 5-M-PE		
Technical data in accordance to IEC / DIN VDE										
Rated current	[A]	8			8			8		
Rated insulation voltage for pollution degree 2	[V]	-			-			-		
Pitch	[mm]	3.5			3.5			3.5		
Insulation coordination										
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250			250			250		
Rated surge voltage	[kV]									
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	300	-	300	300	-	300	300	-	300
Nominal current	[A]	8	-	8	8	-	8	8	-	8
Connection capacity AWG	AWG	-	-	-	-	-	-	-	-	-
Approval data (CSA)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	300	-	300	300	-	300	300	-	300
Nominal current	[A]	8	-	8	8	-	8	8	-	8
Connection capacity AWG	AWG	-	-	-	-	-	-	-	-	-
General data										
Type of insulation material / insulation material group		PA / I			PA / I			PA / I		
Inflammability class according to UL 94		V0			V0			V0		

No. of pos.	Dim. a [mm]
3	7.00
5	14.00

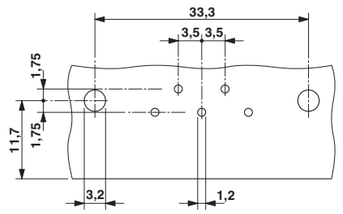


Shielded POWER SUBCON header for wall thicknesses of up to 4.5 mm, 4-40 UNC fastening thread

Dimensional drawing



Drawing diagram



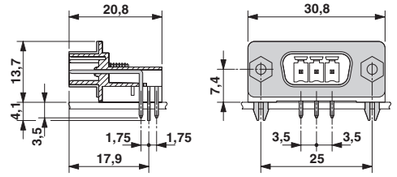
Ordering data

Type	Order No.	Pcs. / Pkt.
Color: Green		
PSC 1,5/ 5-M	**1841899**	50

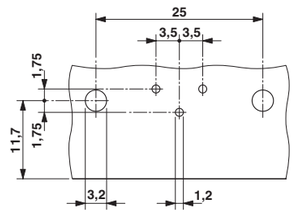


Shielded POWER SUBCON header for wall thicknesses of up to 4.5 mm, 4-40 UNC fastening thread, with leading medium PE contact

Dimensional drawing



Drawing diagram



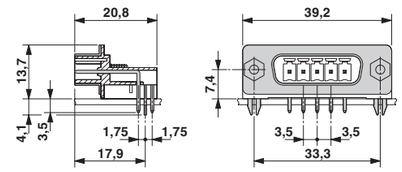
Ordering data

Type	Order No.	Pcs. / Pkt.
Color: Green		
PSC 1,5/ 3-M-PE	**1848122**	50

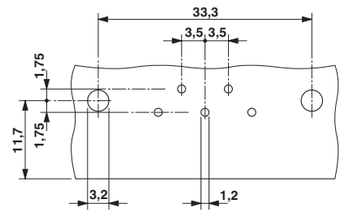


Shielded POWER SUBCON header for wall thicknesses of up to 4.5 mm, 4-40 UNC fastening thread, with leading medium PE contact

Dimensional drawing



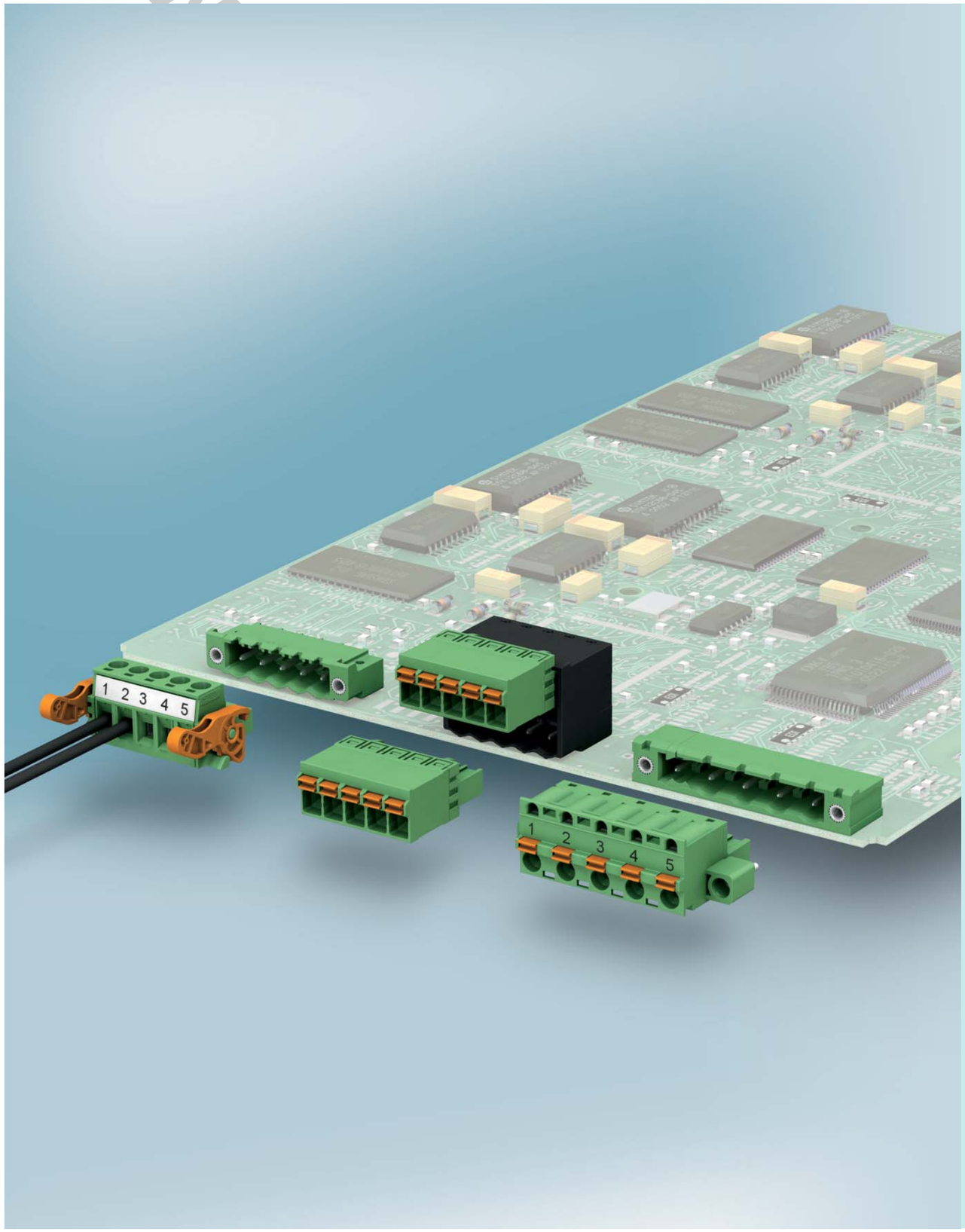
Drawing diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
Color: Green		
PSC 1,5/ 5-M-PE	**1848135**	50

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Plug-in connector systems with 5.0 to 7.62 mm pitch

COMBICON plug-in connectors have established themselves as the worldwide standard in industrial electronics.

A wide range of plugs and headers are available with 5.0/5.08 and 7.5/7.62 mm pitch.

Choose from screw, push-in spring, crimp or displacement connection for conductor contacting. Horizontal, vertical, and inverted plug and header designs enable plug-in PCB connections, PCB pairing with PCB or free-hanging connections.

Customer-specific versions complete the range of services. In addition to the standard green housing, a further 20 colors are available on request. The headers and plugs can be labeled individually for clear identification of each terminal point. For external device connections or harsh operating conditions such as vibrations, additional locking of the plug and header is advisable. This can be achieved with the particularly user-friendly Lock & Release connection, a self-locking flange connection or proven screw flanges.

When using several plug-in connections in an application, clear assignment of the plugs and headers is possible by means of individual keying.

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Inverted plugs with screw connection 272
Plugs with push-in spring connection 274
Inverted plugs with push-in spring connection 286
Plugs with displacement connection 290
Plugs with crimp connection 294
Inverted connectors with crimp connection 296
Headers for reflow processes 298
Headers for press-in technology 310
Headers for wave soldering processes 312
Inverted headers for wave soldering processes 332

CLASSIC COMBICON plug-in connectors Pitch 7.5/7.62 mm up to 12 A 334

Plugs with screw connection 334
Inverted plugs with screw connection 338
Plugs with push-in spring connection 340
Inverted plugs with push-in spring connection 341
Headers for wave soldering processes 342
Inverted headers for wave soldering processes 346

Special designs 348

Cable housing 348
Feed-through headers and assembly frames 350
Plug-in blocks for direct mounting 356
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CLASSIC COMBICON plug connectors for the Ex area with 5.08 and 7.62 mm pitch 369

Plugs with screw connection with 5.08 mm pitch 369
Plugs with push-in spring connection 371
Inverted plugs with 5.08 mm pitch 373
Headers for wave soldering processes 369
Inverted headers for wave soldering processes 377
Plugs with screw connection with 7.62 mm pitch 379
Headers for wave soldering processes with 7.62 mm pitch 383

Customer-specific standard plug-in connectors

Customer-specific requirements and requests can also be taken into account when producing plug-in connectors.
Usually plug-in connectors are available as partially assembled versions and in various colors.

Standard plug-in connectors with special pins

Individual processing of pin strips in the soldering process as well as the special environmental requirements are taken into consideration in many product ranges, which is why solder pins of different lengths and with different surfaces (e.g., tin or gold) are available for these pins.

Test connections

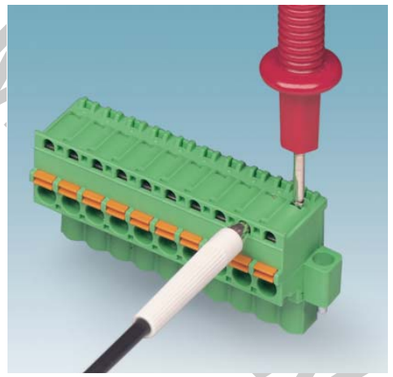
Test connections or touch connections are integrated in many plugs for measurement and test purposes.



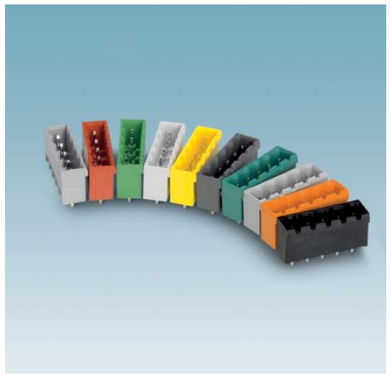
Partially assembled pin strip



Version with tin-plated pins



Integrated test connections



Color options



Version with partially gold-plated pins

COMBICON plug-in connectors

In accordance with DIN EN 61984, COMBICON plug-in connectors have no switching power. When used as intended, they may not be connected or disconnected while they are live or under load.

Encoding

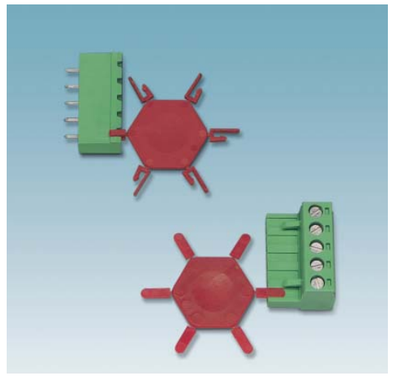
If connectors from a series with the same number of positions are used in an application, clear assignment of the connectors and headers is possible by means of individual keying. The keying can be implemented later on site or is provided in pre-assembled versions.

Bridges

In addition to conventional TWIN plug-in connectors, standard plug-in connectors can also be used for potential distribution by means of separate bridges. The fixed bridge is connected directly in the connection area, if necessary, with a supply conductor.

Marking

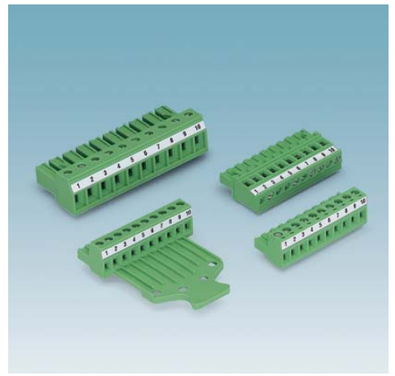
For marking individual terminal points, marker cards (SK strips with consecutive numbers 1 - 10, 11 - 20) are available with 2.5 to 7.62 mm pitch. Alternatively, the terminal blocks can also be supplied with individual labeling.



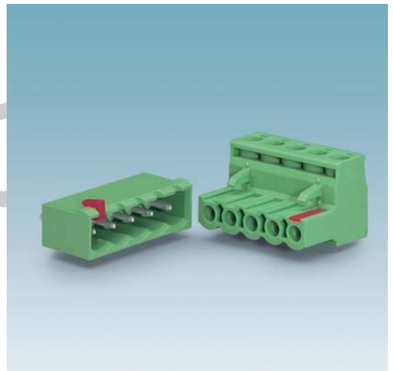
Keying with keying section and keying profile



Separate fixed bridges



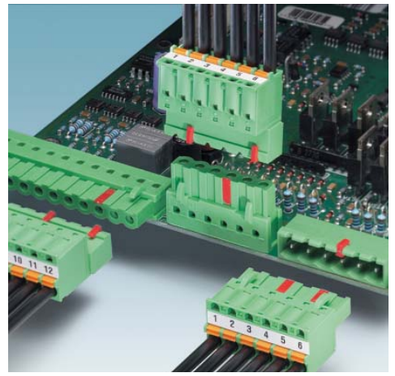
SK marker strips



Example for combination that cannot be plugged in



Separate fixed bridges



Keying/printing

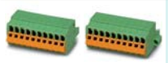
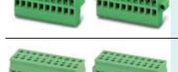
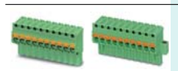
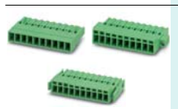
Note:

Since the installation environment of the entire PCB cannot be influenced, the specified nominal voltage of all COMBICON plug-in connectors refers to the "as-delivered" state. For more detailed information about the dimensioning of air and creepage distances of PCBs, see page 849.

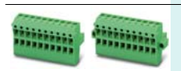
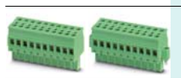
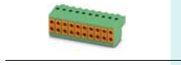
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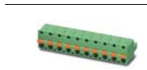
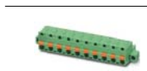
Classic plug-in connector with 5.0 to 7.62 mm pitch

COMBICON control cross-reference list

CLASSIC COMBICON Plugs	Type	Pitch	CLASSIC COMBICON headers	IC...ST(F) Page 272	IC...STGF Page 273	FKIC(S)...ST(F) Page 273 288	FKIC(S)...ST(D)...RN Page 287	ICC...STZ(F) Page 296	CC(A)...G CCV(A)...G Page 298 300	CC...GF CCV...GF Page 299 301	CCA....G...RN CCVA....G...RN Page 299 301	CCDN...G1(F) Page 306	MSTBO..G1R(L) Page 308	EMSTBA...G MSTB(A)(W)...G Page 310 312	EMSTB...GF MSTB...GF Page 311 314	EMSTBVA...G MSTBV(A)...G MSTB...GEH Page 311 / 317	EMSTBV...GF MSTBV...GF Page 344 / 311 317	SMSTB(A)...G Page 318	MSTB(V)A... ...G RN Page 313 316	MSTBO...GR(L) Page 320
			5.08	5.08	5.0 5.08	5.08	5.08	5.08	5.08	5.08	5.08	5.0 5.08	5.0	5.0 5.08	5.0 5.08	5.0 5.08	5.0 5.08	5.0 5.08	5.0 5.08	5.08
	**QC 1...ST** Page 290 **QC 1...STF** Page 291	5.08 5.08	•	•	•		•	•					•	•	•	•	•			•
	**QC 1,5...ST** Page 292 **QC 1,5...STF** Page 293	5.0 5.0		•								•	•	•	•	•	•			
	**MSTB(T)...ST** Page 262 **MSTB(T)...STF** Page 265	5.0 5.08 5.0 5.08	•	• •	•	•	•			•		•	• •	• •	• •	• •	•			•
	**SMSTB...ST** Page 268 **SMSTB...STF** Page 269	5.0 5.08 5.0 5.08	•	• •	•	•	•	•	•	•				• •	• •	• •	• •	•		•	•
	**MVSTBR(W)...ST** Page 266 **MVSTBR(W)...STF** Page 267	5.0 5.08 5.0 5.08	•	• •	•	•	•	•	•	•				• •	• •	• •	• •	•			•
	**FRONT-MSTB...ST** Page 269 **FRONT-MSTB...STF** Page 269	5.0 5.08 5.0 5.08	•	• •	•	•	•	•	•	•				• •	• •	• •	• •	•			•
	**TMSTBP...ST** Page 270 **TMSTBP...STF** Page 271	508 5.08	•	•	•	•	•	•	•	•				•	•	•	•	•			•
	**TVMSTB...ST** Page 271 **TVMSTB...STF** Page 271	5.08 5.08	•	• •	•	•	•	•	•	•				• •	• •	• •	• •	•			•
	**FKC(S)...ST** Page 274 **FKC(S)...STF** Page 275	5.0 5.08 5.0 5.08	•	• •	•	•	•	•	•	•				• •	• •	• •	• •	•			•
	**FKC...ST...RF** Page 275	5.0 5.08				•	•				•								• •	
	**FKCT...ST** Page 277 **FKCT...STF** Page 277	5.0 5.08 5.0 5.08	•	•	•		•	•		•			•	• •	• •	• •	• •	•			•
	**FKCN...ST** Page 278 **FKCN...STF** Page 279	5.0 5.08 5.0 5.08	•	•	•	•	•	•	•	•	• •	• •		• •	• •	• •	• •	•			•
	**FKCVR(W)...ST** Page 280 **FKCVR(W)....STF** Page 281	5.0 5.08 5.0 5.08	•	•	•	•	•			•				• •	• •	• •	• •	•			•
	**TVFKC...ST** Page 282 **TVFKCL....ST** Page 283	5.0 5.0		•									•	• •		• •		•			
	**TFKC...ST** Page 284 **TFKC....STF** Page 284	5.08 5.08	•	•	•	•	•	•	•	•				•		•		•			•
	**MSTBC...ST(Z)** Page 294 **MSTBC...STZF** Page 295 **MSTBC...STZ...R** Page 295	5.08 5.08 5.08	•	•	•	•	•	•	•	•	•			•	•	•		•	•		•
	**IC(V)...G** Page 332 **IC(V)...GF** Page 333	5.08 5.08	• •		• •		• •	•						•		•		•			•

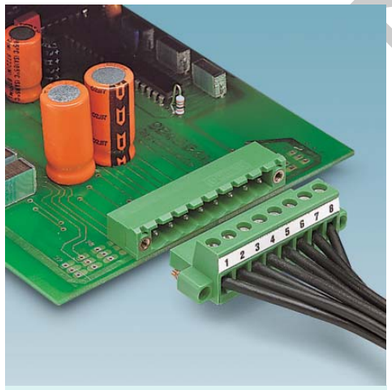
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CLASSIC COMBICON Plugs	Type	Pitch	CLASSIC COMBICON headers	CC...GF...LR THR CCV...GF...LR THR THR Page 299 301	MDSTB(A)...G MDSTBW...G MDSTBV(A)...G 326 / 329 / 320	MDSTB...GF MDSTBV...GF Page 327 331	MDSTB...G1 MDSTBV...G1 Page 329 329	DFK-MSTB...G DFK-MSTB(V)A...G Page 352 354	DFK-MSTB...GF DFK-MSTB(V)A...GF Page 353 355	MVSTBU...GB MVSTBU..GFB Page 357
		Pitch		5.08	5.0 5.08	5.0 5.08	5.0 5.08	5.0 5.08	5.0 5.08	5.08
	QC 1...ST Page 290 QC 1...STF Page 291	5.08 5.08			• •		•	•	 •	• •
	QC 1,5...ST Page 292 QC 1,5...STF Page 293	5.0 5.0			• •		•	•	 •	
	MSTB(T)...ST Page 262 MSTB(T)...STF Page 265	5.0 5.08 5.0 5.08	 •		• •	• •	•	•	 •	 •
	SMSTB...ST Page 268 SMSTB...STF Page 269	5.0 5.08 5.0 5.08	 •		• •	• •	•	•	 •	 •
	MVSTBR(W)...ST Page 266 MVSTBR(W)...STF Page 267	5.0 5.08 5.0 5.08	 •		• •	• •	•	•	 •	 •
	FRONT-MSTB...ST Page 267 FRONT-MSTB...STF Page 269	5.0 5.08 5.0 5.08	 •		• •	• •	•	•	 •	 •
	TMSTBP...ST Page 270 TMSTBP...STF Page 271	508 5.08	 •					•	 •	
	TVMSTB...ST Page 271 TVMSTB...STF Page 271	5.08 5.08	 •					•	 •	
	FKC(S)...ST Page 274 FKC(S)...STF Page 274	5.0 5.08 5.0 5.08	 •	• •	 •	• •	•	•	 •	 •
	MSTB...ST...LR Page 263 FKC...ST...LR Page 275	5.08 5.08	• •							
	FKCT...ST Page 277 FKCT...STF Page 277	5.0 5.08 5.0 5.08	 •	• •	 •	• •	•	•	 •	 •
	FKCN...ST Page 278 FKCN...STF Page 279	5.0 5.08 5.0 5.08	 •	• •	 •	• •	•	•	 •	 •
	FKCVR(W)...ST Page 280 FKCVR(W)....STF Page 281	5.0 5.08 5.0 5.08	 •				•	•	 •	 •
	TVFKC...ST Page 282 TVFKCL....ST Page 283	5.0 5.0					•		•	
	TFKC...ST Page 284 TFKC....STF Page 285	5.08 5.08	 •					•	 •	
	MSTBC...ST(Z) Page 294 MSTBC...STZF Page 295 MSTBC...STZ...R Page 295	5.08 5.08 5.08	 •	•	 •	•		•	 •	•
	IC(V)...G Page 332 IC(V)...GF Page 333	5.08 5.08	 •	•	 •	•				•

CLASSIC COMBICON Plugs	Type	Pitch	CLASSIC COMBICON Headers	GIC... ST Page 338	GIC... STF Page 339	GIC... STGF Page 339	GFKIC... ST Page 341	GMSTB...G GMSTBA...G Page 343 / 342	GMSTB...GF GMSTBV...GF Page 343 345	GMSTBV...G GMSTBVA...G Page 344
		Pitch		7.62	7.62	7.62	7.62	7.5 7.62	7.62	7.5 7.62
	GMSTB...ST Page 334	7.5 7.62		•			•	• •		• •
	GMSTB...STF Page 335	7.62				•			•	
	FRONT-GMSTB...ST Page 335	7.62		•			•	•		•
	FRONT-GMSTB...STF Page 335	7.62				•			•	
	GMVSTBR(W)...ST Page 336	7.5 7.62		•			•	• •		• •
	GMVSTBR(W)...STF Page 337	7.62				•			•	
	GFKC..ST Page 340	7.5 7.62		•			•	• •		• •
	GFKC..STF Page 341	7.62				•			•	
	GIC..G Page 346	7.62		•			•	•		•
	GIC...GF Page 347	7.62			•					
	GICV..G Page 347	7.62		•			•	•		•
	GICV..GF Page 347	7.62			•					

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Connector with a screw connection



- Standard plug-in system for 320 V (III/2)
- Plug-in direction parallel to the conductor axis
- Versions with screw flange, pull-out aid, and Lock & Release levers
- Individual position keying by inserting the keying profiles
- Higher numbers of positions up to 24-pos. can be found at: **www.phoenixcontact.net/products**

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

MSTB 2,5/...-STZ
Dimension b Dimension c

	[mm]	[mm]
2- to 4-pos.	9.9	46
5- to 8-pos.	19.9	46
From 9-pos. onwards	39.9	55.6

The maximum torque for the screw flange is 0.3 Nm.

1) Please observe the derating curves. Derating curves of further combination options on request.



Connector with screw connection



With screw flange

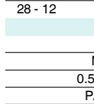


With pull-out aid

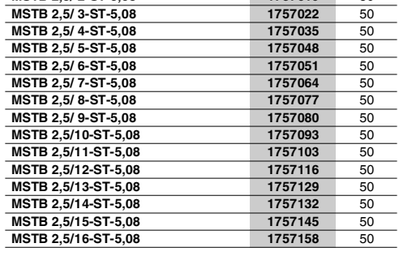


With lock & release levers for locking and releasing

Accessories

For all types	Type	Page
	Marker cards **SK 5/3,8 orSK 5,08/3,8**	798
	Screwdriver **SZS 0,6 x 3,5 Order No. 1205053**	
	Keying profile **CP-MSTB Order No. 1734634**	38
	Insertion bridge **EBP...- 5**	829

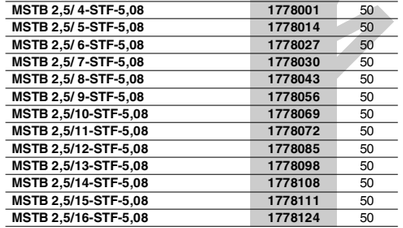
Dimensional drawing



Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 2.5 mm²
Reduction factor = 0.8
Number of positions = see diagram

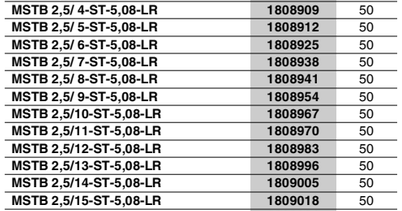
Dimensional drawing



Dimensional drawing

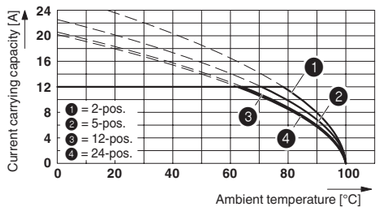


Dimensional drawing

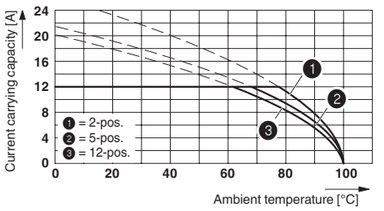


Representative derating curves of the above-mentioned plugs

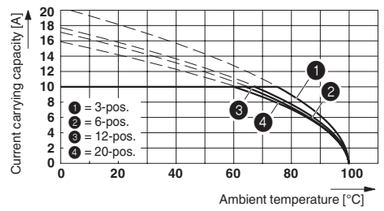
Type: MSTB 2,5/..-ST(-5,08) with MSTBA 2,5/...-G(-5,08)



Type: MSTB 2,5/...-5,08 with CC 2,5/...-G-5,08 P26THR



Type: MSTB 2,5/..-ST with MDSTB 2,5/...-G1



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	12¹) / 2.5		
Rated insulation voltage for pollution degree 2	[V]	320		
Pitch	[mm]	5 / 5.08		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 2.5 / 0.2 - 2.5 / 24 - 12		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 2.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 2.5		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	0.2 - 1 / 0.2 - 1.5		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 1		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 1.5		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250	320	630
Rated surge voltage	[kV]	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	15	-	15
Connection capacity AWG	AWG	30 - 12	-	30 - 12
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	10	-	10
Connection capacity AWG	AWG	28 - 12	-	28 - 12
General data				
Stripping length	[mm]	7		
Screw thread		M3		
Tightening torque	[Nm]	0.5 - 0.6		
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		

Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		5.0 mm pitch, color: green		
2	5.00	**MSTB 2,5/ 2-ST**	1754449	50
3	10.00	**MSTB 2,5/ 3-ST**	1754465	50
4	15.00	**MSTB 2,5/ 4-ST**	1754481	50
5	20.00	**MSTB 2,5/ 5-ST**	1754504	50
6	25.00	**MSTB 2,5/ 6-ST**	1754520	50
7	30.00	**MSTB 2,5/ 7-ST**	1754546	50
8	35.00	**MSTB 2,5/ 8-ST**	1754562	50
9	40.00	**MSTB 2,5/ 9-ST**	1754588	50
10	45.00	**MSTB 2,5/10-ST**	1754601	50
11	50.00	**MSTB 2,5/11-ST**	1754627	50
12	55.00	**MSTB 2,5/12-ST**	1754643	50
13	60.00	**MSTB 2,5/13-ST**	1754669	50
14	65.00	**MSTB 2,5/14-ST**	1754685	50
15	70.00	**MSTB 2,5/15-ST**	1754708	50
16	75.00	**MSTB 2,5/16-ST**	1754724	50
		5.08 mm pitch, color: Green		
2	5.08	**MSTB 2,5/ 2-ST-5,08**	1757019	50
3	10.16	**MSTB 2,5/ 3-ST-5,08**	1757022	50
4	15.24	**MSTB 2,5/ 4-ST-5,08**	1757035	50
5	20.32	**MSTB 2,5/ 5-ST-5,08**	1757048	50
6	25.40	**MSTB 2,5/ 6-ST-5,08**	1757051	50
7	30.48	**MSTB 2,5/ 7-ST-5,08**	1757064	50
8	35.56	**MSTB 2,5/ 8-ST-5,08**	1757077	50
9	40.64	**MSTB 2,5/ 9-ST-5,08**	1757080	50
10	45.72	**MSTB 2,5/10-ST-5,08**	1757093	50
11	50.80	**MSTB 2,5/11-ST-5,08**	1757103	50
12	55.88	**MSTB 2,5/12-ST-5,08**	1757116	50
13	60.96	**MSTB 2,5/13-ST-5,08**	1757129	50
14	66.04	**MSTB 2,5/14-ST-5,08**	1757132	50
15	71.12	**MSTB 2,5/15-ST-5,08**	1757145	50
16	76.20	**MSTB 2,5/16-ST-5,08**	1757158	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MSTB 2,5/ 2-STF	1786831	50
MSTB 2,5/ 3-STF	1786844	50
MSTB 2,5/ 4-STF	1786857	50
MSTB 2,5/ 5-STF	1786860	50
MSTB 2,5/ 6-STF	1786873	50
MSTB 2,5/ 7-STF	1786886	50
MSTB 2,5/ 8-STF	1786899	50
MSTB 2,5/ 9-STF	1786909	50
MSTB 2,5/10-STF	1786912	50
MSTB 2,5/11-STF	1786925	50
MSTB 2,5/12-STF	1786938	50
MSTB 2,5/13-STF	1786941	50
MSTB 2,5/14-STF	1786954	50
MSTB 2,5/15-STF	1786967	50
MSTB 2,5/16-STF	1786970	50
5.08 mm pitch, color: Green		
MSTB 2,5/ 2-STF-5,08	1777989	50
MSTB 2,5/ 3-STF-5,08	1777992	50
MSTB 2,5/ 4-STF-5,08	1778001	50
MSTB 2,5/ 5-STF-5,08	1778014	50
MSTB 2,5/ 6-STF-5,08	1778027	50
MSTB 2,5/ 7-STF-5,08	1778030	50
MSTB 2,5/ 8-STF-5,08	1778043	50
MSTB 2,5/ 9-STF-5,08	1778056	50
MSTB 2,5/10-STF-5,08	1778069	50
MSTB 2,5/11-STF-5,08	1778072	50
MSTB 2,5/12-STF-5,08	1778085	50
MSTB 2,5/13-STF-5,08	1778098	50
MSTB 2,5/14-STF-5,08	1778108	50
MSTB 2,5/15-STF-5,08	1778111	50
MSTB 2,5/16-STF-5,08	1778124	50

Ordering data

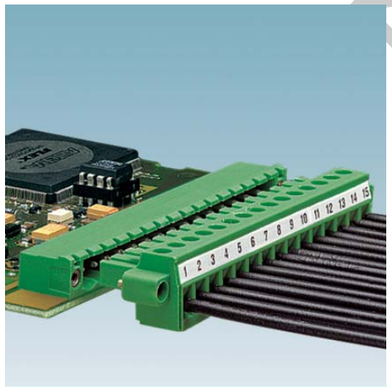
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MSTB 2,5/ 4-STZ	1739114	50
MSTB 2,5/ 8-STZ	1758982	50
MSTB 2,5/ 9-STZ	1758995	50
MSTB 2,5/10-STZ	1759004	50
MSTB 2,5/11-STZ	1759347	50
MSTB 2,5/12-STZ	1759350	50
MSTB 2,5/13-STZ	1759363	50
MSTB 2,5/14-STZ	1759376	50
MSTB 2,5/15-STZ	1759389	50
MSTB 2,5/16-STZ	1759392	50
5.08 mm pitch, color: Green		
MSTB 2,5/ 2-STZ-5,08	1709791	50
MSTB 2,5/ 3-STZ-5,08	1776168	50
MSTB 2,5/ 4-STZ-5,08	1776155	50
MSTB 2,5/ 5-STZ-5,08	1776142	50
MSTB 2,5/ 6-STZ-5,08	1776126	50
MSTB 2,5/ 7-STZ-5,08	1776113	50
MSTB 2,5/ 8-STZ-5,08	1764235	50
MSTB 2,5/ 9-STZ-5,08	1764316	50
MSTB 2,5/10-STZ-5,08	1764303	50
MSTB 2,5/11-STZ-5,08	1764293	50
MSTB 2,5/12-STZ-5,08	1764280	50
MSTB 2,5/13-STZ-5,08	1764277	50
MSTB 2,5/14-STZ-5,08	1764264	50
MSTB 2,5/15-STZ-5,08	1764251	50
MSTB 2,5/16-STZ-5,08	1764248	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MSTB 2,5/ 2-ST-5,08-LR	1808886	50
MSTB 2,5/ 3-ST-5,08-LR	1808899	50
MSTB 2,5/ 4-ST-5,08-LR	1808909	50
MSTB 2,5/ 5-ST-5,08-LR	1808912	50
MSTB 2,5/ 6-ST-5,08-LR	1808925	50
MSTB 2,5/ 7-ST-5,08-LR	1808938	50
MSTB 2,5/ 8-ST-5,08-LR	1808941	50
MSTB 2,5/ 9-ST-5,08-LR	1808954	50
MSTB 2,5/10-ST-5,08-LR	1808967	50
MSTB 2,5/11-ST-5,08-LR	1808970	50
MSTB 2,5/12-ST-5,08-LR	1808983	50
MSTB 2,5/13-ST-5,08-LR	1808996	50
MSTB 2,5/14-ST-5,08-LR	1809005	50
MSTB 2,5/15-ST-5,08-LR	1809018	50
MSTB 2,5/16-ST-5,08-LR	1809021	50

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Connector with a screw connection

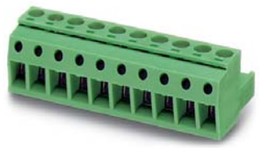


- Versions with and without a screw flange
- Higher numbers of positions up to 24-pos. can be found at: **www.phoenixcontact.net/products**
- Plug-in direction parallel to the conductor axis

MSTBP 2,5/...
- Test connection for MPS plugs

MSTBT 2,5/...
- The cable connection area of the MSTBT 2,5/... is located deeper than that of the MSTB 2,5/...

Notes:
In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
COMBICON select You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 259.
The maximum torque for the screw flange is 0.3 Nm.
1) Please observe the derating curves. Derating curves of further combination options on request.



With a test connection



With connection area moved to the top

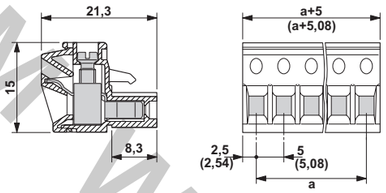


With connection area moved to the top and screw flange

Accessories

For all types	Type	Page
	Keying profile **CP-MSTB** **Order No.** **1734634**	38
	Marker cards **SK 5/3,8 or SK 5,08/3,8**	798
	Screwdriver **SZS 0,6 x 3,5** **Order No.** **1205053**	
	Insertion bridge **EBP...- 5**	829
Only for MSTBP 2,5/ ... -ST		
	Test plug **MPS**	831

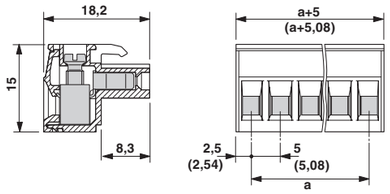
Dimensional drawing



Note derating curves

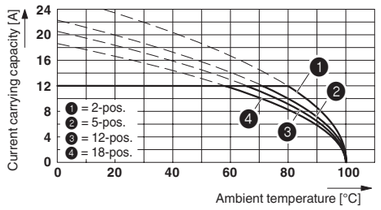
Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 2.5 mm²
Reduction factor = 0.8
Number of positions = see diagram

Dimensional drawing

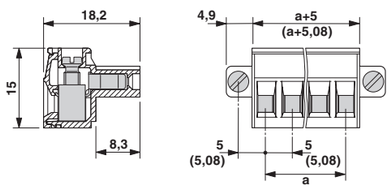


Representative derating curve

Type: MSTBT 2,5/...-ST with MSTBA 2,5/...-G



Dimensional drawing



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	12[1]) / 2.5		
Rated insulation voltage for pollution degree 2	[V]	320		
Pitch	[mm]	5 / 5.08		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 2.5 / 0.2 - 2.5 / 24 - 12		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 2.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 2.5		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	0.2 - 1 / 0.2 - 1.5		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 1		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 1.5		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250	320	630
Rated surge voltage	[kV]	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	15	-	15
Connection capacity AWG	AWG	30 - 12	-	30 - 12
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	10	-	10
Connection capacity AWG	AWG	28 - 12	-	28 - 12
General data				
Stripping length	[mm]	7		
Screw thread		M3		
Tightening torque	[Nm]	0.5 - 0.6		
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		

Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		5.0 mm pitch, color: green		
2	5.00	**MSTBP 2,5/ 2-ST**	**1765771**	50
3	10.00	**MSTBP 2,5/ 3-ST**	**1765784**	50
4	15.00	**MSTBP 2,5/ 4-ST**	**1765797**	50
5	20.00	**MSTBP 2,5/ 5-ST**	**1765807**	50
6	25.00	**MSTBP 2,5/ 6-ST**	**1765810**	50
7	30.00	**MSTBP 2,5/ 7-ST**	**1765823**	50
8	35.00	**MSTBP 2,5/ 8-ST**	**1765836**	50
9	40.00	**MSTBP 2,5/ 9-ST**	**1765849**	50
10	45.00	**MSTBP 2,5/10-ST**	**1765852**	50
11	50.00	**MSTBP 2,5/11-ST**	**1765865**	50
12	55.00	**MSTBP 2,5/12-ST**	**1765878**	50
13	60.00	**MSTBP 2,5/13-ST**	**1765881**	50
14	65.00	**MSTBP 2,5/14-ST**	**1765894**	50
15	70.00	**MSTBP 2,5/15-ST**	**1765904**	50
16	75.00	**MSTBP 2,5/16-ST**	**1765917**	50
		5.08 mm pitch, color: Green		
2	5.08	**MSTBP 2,5/ 2-ST-5,08**	**1769010**	50
3	10.16	**MSTBP 2,5/ 3-ST-5,08**	**1769023**	50
4	15.24	**MSTBP 2,5/ 4-ST-5,08**	**1769036**	50
5	20.32	**MSTBP 2,5/ 5-ST-5,08**	**1769049**	50
6	25.40	**MSTBP 2,5/ 6-ST-5,08**	**1769052**	50
7	30.48	**MSTBP 2,5/ 7-ST-5,08**	**1769065**	50
8	35.56	**MSTBP 2,5/ 8-ST-5,08**	**1769078**	50
9	40.64	**MSTBP 2,5/ 9-ST-5,08**	**1769081**	50
10	45.72	**MSTBP 2,5/10-ST-5,08**	**1769094**	50
11	50.80	**MSTBP 2,5/11-ST-5,08**	**1769104**	50
12	55.88	**MSTBP 2,5/12-ST-5,08**	**1769117**	50
13	60.96	**MSTBP 2,5/13-ST-5,08**	**1769120**	50
14	66.04	**MSTBP 2,5/14-ST-5,08**	**1769133**	50
15	71.12	**MSTBP 2,5/15-ST-5,08**	**1769146**	50
16	76.20	**MSTBP 2,5/16-ST-5,08**	**1769159**	50

Ordering data

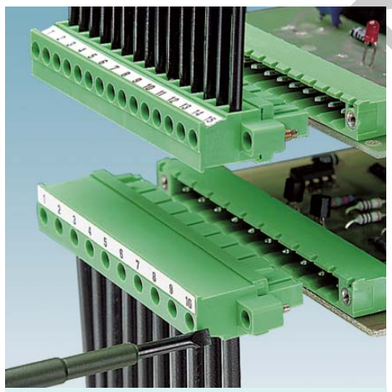
Type	Order No.	Pcs. / Pkt.
COMBICON screw connectors, 5.0 mm pitch, color: green		
MSTBT 2,5/ 2-ST	**1779835**	50
MSTBT 2,5/ 3-ST	**1779848**	50
MSTBT 2,5/ 4-ST	**1779851**	50
MSTBT 2,5/ 5-ST	**1779864**	50
MSTBT 2,5/ 6-ST	**1779877**	50
MSTBT 2,5/ 7-ST	**1779880**	50
MSTBT 2,5/ 8-ST	**1779893**	50
MSTBT 2,5/ 9-ST	**1779903**	50
MSTBT 2,5/10-ST	**1779916**	50
MSTBT 2,5/11-ST	**1779929**	50
MSTBT 2,5/12-ST	**1779932**	50
MSTBT 2,5/13-ST	**1779945**	50
MSTBT 2,5/14-ST	**1779958**	50
MSTBT 2,5/15-ST	**1779961**	50
MSTBT 2,5/16-ST	**1779974**	50
5.08 mm pitch, color: Green		
MSTBT 2,5/ 2-ST-5,08	**1779987**	50
MSTBT 2,5/ 3-ST-5,08	**1779990**	50
MSTBT 2,5/ 4-ST-5,08	**1780002**	50
MSTBT 2,5/ 5-ST-5,08	**1781014**	50
MSTBT 2,5/ 6-ST-5,08	**1781027**	50
MSTBT 2,5/ 7-ST-5,08	**1781030**	50
MSTBT 2,5/ 8-ST-5,08	**1781043**	50
MSTBT 2,5/ 9-ST-5,08	**1734207**	50
MSTBT 2,5/10-ST-5,08	**1781069**	50
MSTBT 2,5/11-ST-5,08	**1781072**	50
MSTBT 2,5/12-ST-5,08	**1781085**	50
MSTBT 2,5/13-ST-5,08	**1781098**	50
MSTBT 2,5/14-ST-5,08	**1781108**	50
MSTBT 2,5/15-ST-5,08	**1781111**	50
MSTBT 2,5/16-ST-5,08	**1781124**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MSTBT 2,5/ 2-STF	**1919718**	50
MSTBT 2,5/ 3-STF	**1919721**	50
MSTBT 2,5/ 4-STF	**1919734**	50
MSTBT 2,5/ 5-STF	**1919747**	50
MSTBT 2,5/ 6-STF	**1919750**	50
MSTBT 2,5/ 7-STF	**1919763**	50
MSTBT 2,5/ 8-STF	**1919776**	50
MSTBT 2,5/ 9-STF	**1919789**	50
MSTBT 2,5/10-STF	**1919792**	50
MSTBT 2,5/11-STF	**1919802**	50
MSTBT 2,5/12-STF	**1919815**	50
MSTBT 2,5/13-STF	**1919828**	50
MSTBT 2,5/14-STF	**1919831**	50
MSTBT 2,5/15-STF	**1919844**	50
MSTBT 2,5/16-STF	**1919857**	50
5.08 mm pitch, color: Green		
MSTBT 2,5/ 2-STF-5,08	**1805301**	50
MSTBT 2,5/ 3-STF-5,08	**1805314**	50
MSTBT 2,5/ 4-STF-5,08	**1805327**	50
MSTBT 2,5/ 5-STF-5,08	**1805330**	50
MSTBT 2,5/ 6-STF-5,08	**1805343**	50
MSTBT 2,5/ 7-STF-5,08	**1805356**	50
MSTBT 2,5/ 8-STF-5,08	**1804661**	50
MSTBT 2,5/ 9-STF-5,08	**1805369**	50
MSTBT 2,5/10-STF-5,08	**1805372**	50
MSTBT 2,5/11-STF-5,08	**1805385**	50
MSTBT 2,5/12-STF-5,08	**1805398**	50
MSTBT 2,5/13-STF-5,08	**1805408**	50
MSTBT 2,5/14-STF-5,08	**1805411**	50
MSTBT 2,5/15-STF-5,08	**1805424**	50
MSTBT 2,5/16-STF-5,08	**1805437**	50

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Connector with a screw connection



– MSTB plugs for vertical plug-in direction
– Versions with and without a screw flange

MVSTBR 2,5...-ST(-5,08)
– Conductor entry on the coded side of the connector

MVSTBW 2,5...-ST(-5,08)
– Conductor entry on the rippled side of the connector

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 259.

The maximum torque for the screw flange is 0.3 Nm.

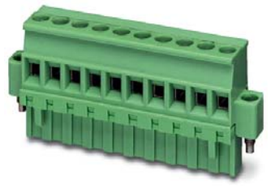
[1]) Please observe the derating curves. Derating curves of further combination options on request.

Accessories

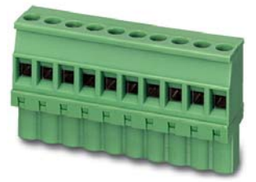
For all types	Type	Page
	Keying profile **CP-MSTB Order No. 1734634**	38
	Marker cards **SK 5/3,8 or SK 5,08/3,8**	798
	Screwdriver **SZS 0,6 x 3,5 Order No. 1205053**	
	Insertion bridge **EBP...- 5**	829



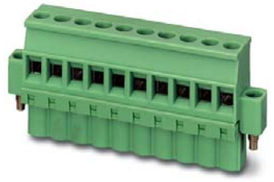
Conductor entry facing keying side



Conductor entry facing keying side, with screw flange

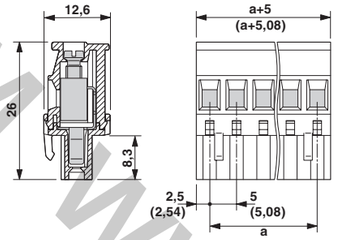


Conductor entry facing rippled side

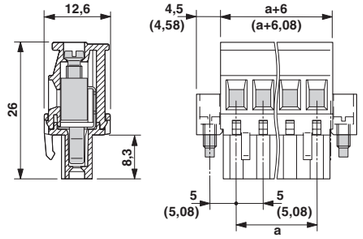


Conductor entry facing rippled side, with screw flange

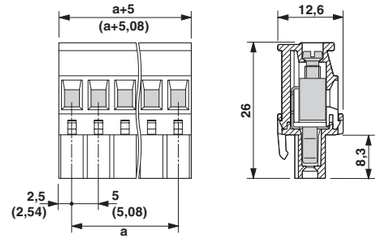
Dimensional drawing



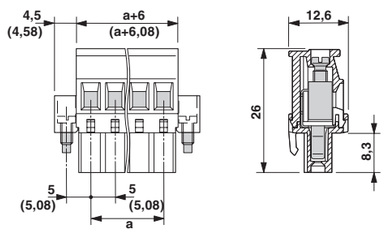
Dimensional drawing



Dimensional drawing



Dimensional drawing

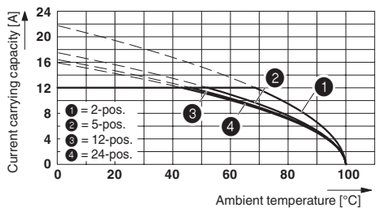


Note derating curves

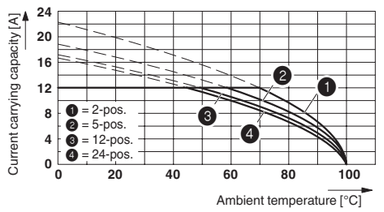
Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 2.5 mm²
Reduction factor = 0.8
Number of positions = see diagram

Representative derating curves of the above-mentioned plugs

Type: MVSTBR 2,5/...-ST(5,08) with MSTBA 2,5/...-G(-5,08)



Type: MVSTBW 2,5/...-ST-5,08 with (U)MSTBVK 2,5/...-G-5,08



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	12[1]) / 2.5		
Rated insulation voltage for pollution degree 2	[V]	320		
Pitch	[mm]	5 / 5.08		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 2.5 / 0.2 - 2.5 / 24 - 12		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 2.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 2.5		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	0.2 - 1 / 0.2 - 1.5		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 1		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 1.5		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250	320	630
Rated surge voltage	[kV]	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	15	-	15
Connection capacity AWG	AWG	30 - 12	-	30 - 12
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	10	-	10
Connection capacity AWG	AWG	28 - 12	-	28 - 12
General data				
Stripping length	[mm]	7		
Screw thread		M3		
Tightening torque	[Nm]	0.5 - 0.6		
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		

Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		5.0 mm pitch, color: green		
2	5.00	**MVSTBR 2,5/ 2-ST**	**1792016**	50
3	10.00	**MVSTBR 2,5/ 3-ST**	**1792029**	50
4	15.00	**MVSTBR 2,5/ 4-ST**	**1792032**	50
5	20.00	**MVSTBR 2,5/ 5-ST**	**1792045**	50
6	25.00	**MVSTBR 2,5/ 6-ST**	**1792058**	50
7	30.00	**MVSTBR 2,5/ 7-ST**	**1792061**	50
8	35.00	**MVSTBR 2,5/ 8-ST**	**1792074**	50
9	40.00	**MVSTBR 2,5/ 9-ST**	**1792087**	50
10	45.00	**MVSTBR 2,5/10-ST**	**1792090**	50
11	50.00	**MVSTBR 2,5/11-ST**	**1792100**	50
12	55.00	**MVSTBR 2,5/12-ST**	**1792113**	50
13	60.00	**MVSTBR 2,5/13-ST**	**1792126**	50
14	65.00	**MVSTBR 2,5/14-ST**	**1792139**	50
15	70.00	**MVSTBR 2,5/15-ST**	**1792142**	50
16	75.00	**MVSTBR 2,5/16-ST**	**1792155**	50
		5.08 mm pitch, color: Green		
2	5.08	**MVSTBR 2,5/ 2-ST-5,08**	**1792249**	50
3	10.16	**MVSTBR 2,5/ 3-ST-5,08**	**1792252**	50
4	15.24	**MVSTBR 2,5/ 4-ST-5,08**	**1792265**	50
5	20.32	**MVSTBR 2,5/ 5-ST-5,08**	**1792278**	50
6	25.40	**MVSTBR 2,5/ 6-ST-5,08**	**1792281**	50
7	30.48	**MVSTBR 2,5/ 7-ST-5,08**	**1792294**	50
8	35.56	**MVSTBR 2,5/ 8-ST-5,08**	**1792304**	50
9	40.64	**MVSTBR 2,5/ 9-ST-5,08**	**1792317**	50
10	45.72	**MVSTBR 2,5/10-ST-5,08**	**1792320**	50
11	50.80	**MVSTBR 2,5/11-ST-5,08**	**1792333**	50
12	55.88	**MVSTBR 2,5/12-ST-5,08**	**1792346**	50
13	60.96	**MVSTBR 2,5/13-ST-5,08**	**1792359**	50
14	66.04	**MVSTBR 2,5/14-ST-5,08**	**1792362**	50
15	71.12	**MVSTBR 2,5/15-ST-5,08**	**1792375**	50
16	76.20	**MVSTBR 2,5/16-ST-5,08**	**1792388**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MVSTBR 2,5/ 2-STF	**1835478**	50
MVSTBR 2,5/ 3-STF	**1835481**	50
MVSTBR 2,5/ 4-STF	**1835494**	50
MVSTBR 2,5/ 5-STF	**1835504**	50
MVSTBR 2,5/ 6-STF	**1835517**	50
MVSTBR 2,5/ 7-STF	**1835520**	50
MVSTBR 2,5/ 8-STF	**1835533**	50
MVSTBR 2,5/ 9-STF	**1835546**	50
MVSTBR 2,5/10-STF	**1835559**	50
MVSTBR 2,5/11-STF	**1835562**	50
MVSTBR 2,5/12-STF	**1835575**	50
MVSTBR 2,5/13-STF	**1835588**	50
MVSTBR 2,5/14-STF	**1835591**	50
MVSTBR 2,5/15-STF	**1835601**	50
MVSTBR 2,5/16-STF	**1835614**	50
5.08 mm pitch, color: Green		
MVSTBR 2,5/ 2-STF-5,08	**1835096**	50
MVSTBR 2,5/ 3-STF-5,08	**1835106**	50
MVSTBR 2,5/ 4-STF-5,08	**1835119**	50
MVSTBR 2,5/ 5-STF-5,08	**1835122**	50
MVSTBR 2,5/ 6-STF-5,08	**1835135**	50
MVSTBR 2,5/ 7-STF-5,08	**1835148**	50
MVSTBR 2,5/ 8-STF-5,08	**1835151**	50
MVSTBR 2,5/ 9-STF-5,08	**1835164**	50
MVSTBR 2,5/10-STF-5,08	**1835177**	50
MVSTBR 2,5/11-STF-5,08	**1835180**	50
MVSTBR 2,5/12-STF-5,08	**1835193**	50
MVSTBR 2,5/13-STF-5,08	**1835203**	50
MVSTBR 2,5/14-STF-5,08	**1835216**	50
MVSTBR 2,5/15-STF-5,08	**1835229**	50
MVSTBR 2,5/16-STF-5,08	**1835232**	50

Ordering data

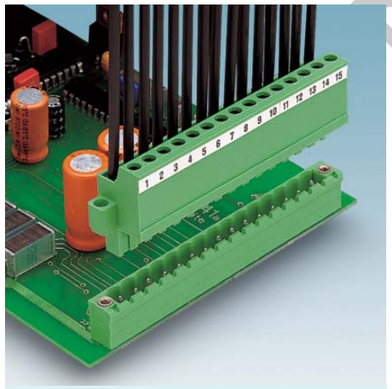
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MVSTBW 2,5/ 2-ST	**1792524**	50
MVSTBW 2,5/ 3-ST	**1792537**	50
MVSTBW 2,5/ 4-ST	**1792540**	50
MVSTBW 2,5/ 5-ST	**1792553**	50
MVSTBW 2,5/ 6-ST	**1792566**	50
MVSTBW 2,5/ 7-ST	**1792579**	50
MVSTBW 2,5/ 8-ST	**1792582**	50
MVSTBW 2,5/ 9-ST	**1792595**	50
MVSTBW 2,5/10-ST	**1792605**	50
MVSTBW 2,5/11-ST	**1792618**	50
MVSTBW 2,5/12-ST	**1792621**	50
MVSTBW 2,5/13-ST	**1792634**	50
MVSTBW 2,5/14-ST	**1792647**	50
MVSTBW 2,5/15-ST	**1792650**	50
MVSTBW 2,5/16-ST	**1792663**	50
5.08 mm pitch, color: Green		
MVSTBW 2,5/ 2-ST-5,08	**1792757**	50
MVSTBW 2,5/ 3-ST-5,08	**1792760**	50
MVSTBW 2,5/ 4-ST-5,08	**1792773**	50
MVSTBW 2,5/ 5-ST-5,08	**1792786**	50
MVSTBW 2,5/ 6-ST-5,08	**1792799**	50
MVSTBW 2,5/ 7-ST-5,08	**1792809**	50
MVSTBW 2,5/ 8-ST-5,08	**1792812**	50
MVSTBW 2,5/ 9-ST-5,08	**1792825**	50
MVSTBW 2,5/10-ST-5,08	**1792838**	50
MVSTBW 2,5/11-ST-5,08	**1792841**	50
MVSTBW 2,5/12-ST-5,08	**1792854**	50
MVSTBW 2,5/13-ST-5,08	**1792867**	50
MVSTBW 2,5/14-ST-5,08	**1792870**	50
MVSTBW 2,5/15-ST-5,08	**1792883**	50
MVSTBW 2,5/16-ST-5,08	**1792896**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MVSTBW 2,5/ 2-STF	**1835287**	50
MVSTBW 2,5/ 3-STF	**1835290**	50
MVSTBW 2,5/ 4-STF	**1835300**	50
MVSTBW 2,5/ 5-STF	**1835313**	50
MVSTBW 2,5/ 6-STF	**1835326**	50
MVSTBW 2,5/ 7-STF	**1835339**	50
MVSTBW 2,5/ 8-STF	**1835342**	50
MVSTBW 2,5/ 9-STF	**1835355**	50
MVSTBW 2,5/10-STF	**1835368**	50
MVSTBW 2,5/11-STF	**1835371**	50
MVSTBW 2,5/12-STF	**1835384**	50
MVSTBW 2,5/13-STF	**1835397**	50
MVSTBW 2,5/14-STF	**1835407**	50
MVSTBW 2,5/15-STF	**1835410**	50
MVSTBW 2,5/16-STF	**1835423**	50
5.08 mm pitch, color: Green		
MVSTBW 2,5/ 2-ST-5,08	**1834903**	50
MVSTBW 2,5/ 3-STF-5,08	**1834916**	50
MVSTBW 2,5/ 4-STF-5,08	**1834929**	50
MVSTBW 2,5/ 5-STF-5,08	**1834932**	50
MVSTBW 2,5/ 6-STF-5,08	**1834945**	50
MVSTBW 2,5/ 7-STF-5,08	**1834958**	50
MVSTBW 2,5/ 8-STF-5,08	**1834961**	50
MVSTBW 2,5/ 9-STF-5,08	**1834974**	50
MVSTBW 2,5/10-STF-5,08	**1834987**	50
MVSTBW 2,5/11-STF-5,08	**1834990**	50
MVSTBW 2,5/12-STF-5,08	**1835009**	50
MVSTBW 2,5/13-STF-5,08	**1835012**	50
MVSTBW 2,5/14-STF-5,08	**1835025**	50
MVSTBW 2,5/15-STF-5,08	**1835038**	50
MVSTBW 2,5/16-STF-5,08	**1835041**	50

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Connector with a screw connection



- Versions with and without a screw flange
- Higher numbers of positions up to 24-pos. can be found at: **www.phoenixcontact.net/products**

FRONT-MSTB 2,5/...-ST(F)-...
- with front screw connection
- Plug-in direction parallel to the conductor axis

SMSTB 2,5/...
- angled connection direction to the conductor axis

Notes:
In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
COMBICON select You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 259.
The maximum torque for the screw flange is 0.3 Nm.
1) Please observe the derating curves. Derating curves of further combination options on request.
2) Diverging data with FRONT-MSTB 2,5/... = stripping length 10 mm

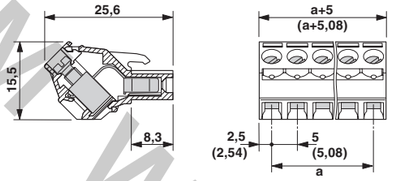
Accessories

For all types	Type	Page
	Keying profile **CP-MSTB** **Order No.** **1734634**	38
	Marker cards **SK 5/3,8 or SK 5,08/3,8**	798
	Screwdriver **SZS 0,6 x 3,5** **Order No.** **1205053**	
Only for FRONT-MSTB 2,5/...-ST(STF)		
	Pullout aid for connectors arranged one after the other, width: 30 mm **FRONT-MSTB-EW** **Order No.** **1763058**	



Plug-in direction 45° to the conductor axis

Dimensional drawing



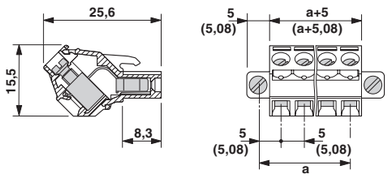
Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 2.5 mm²
Reduction factor = 0.8
Number of positions = see diagram



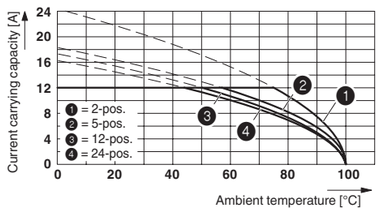
Plug-in direction 45° to the conductor axis, with screw flange

Dimensional drawing



Representative derating curves of the above-mentioned plugs

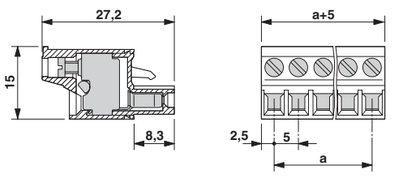
Type: SMSTB 2,5/...-ST with MSTBA 2,5/...-G



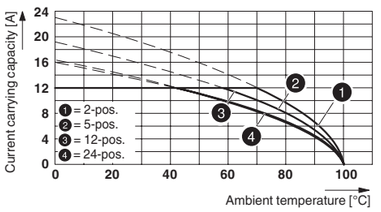


With front screw connection, plug-in direction parallel to the conductor axis

Dimensional drawing



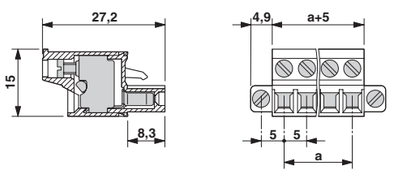
Type: SMSTB 2,5/...-ST with SMSTBA 2,5/...-G



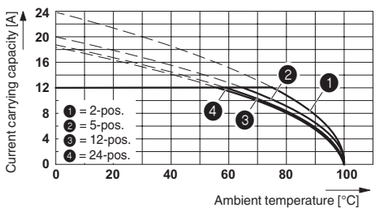


With front screw connection and screw flange, plug-in direction parallel to the conductor axis

Dimensional drawing



Type: FRONT-MSTB 2,5/...-ST(-5,08) with MSTBA 2,5/...-G(-5,08)



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	12[1]) / 2.5		
Rated insulation voltage for pollution degree 2	[V]	320		
Pitch	[mm]	5 / 5.08		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 2.5 / 0.2 - 2.5 / 24 - 12		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 2.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 2.5		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	0.2 - 1 / 0.2 - 1.5		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 1		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 1.5		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250	320	630
Rated surge voltage	[kV]	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	15	-	10
Connection capacity AWG	AWG	30 - 12	-	30 - 12
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	10	-	10
Connection capacity AWG	AWG	28 - 12	-	28 - 12
General data				
Stripping length	[mm]	7[2])		
Screw thread		M3		
Tightening torque	[Nm]	0.5 - 0.6		
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		

Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		5.0 mm pitch, color: green		
2	5.00	**SMSTB 2,5/ 2-ST**	**1768765**	50
3	10.00	**SMSTB 2,5/ 3-ST**	**1768778**	50
4	15.00	**SMSTB 2,5/ 4-ST**	**1768781**	50
5	20.00	**SMSTB 2,5/ 5-ST**	**1768794**	50
6	25.00	**SMSTB 2,5/ 6-ST**	**1768804**	50
7	30.00	**SMSTB 2,5/ 7-ST**	**1768817**	50
8	35.00	**SMSTB 2,5/ 8-ST**	**1768448**	50
9	40.00	**SMSTB 2,5/ 9-ST**	**1768820**	50
10	45.00	**SMSTB 2,5/10-ST**	**1768833**	50
11	50.00	**SMSTB 2,5/11-ST**	**1768846**	50
12	55.00	**SMSTB 2,5/12-ST**	**1768859**	50
13	60.00	**SMSTB 2,5/13-ST**	**1768862**	50
14	65.00	**SMSTB 2,5/14-ST**	**1768875**	50
15	70.00	**SMSTB 2,5/15-ST**	**1768888**	50
16	75.00	**SMSTB 2,5/16-ST**	**1768891**	50
		5.08 mm pitch, color: Green		
2	5.08	**SMSTB 2,5/ 2-ST-5,08**	**1826283**	50
3	10.16	**SMSTB 2,5/ 3-ST-5,08**	**1826296**	50
4	15.24	**SMSTB 2,5/ 4-ST-5,08**	**1826306**	50
5	20.32	**SMSTB 2,5/ 5-ST-5,08**	**1826319**	50
6	25.40	**SMSTB 2,5/ 6-ST-5,08**	**1826322**	50
7	30.48	**SMSTB 2,5/ 7-ST-5,08**	**1826335**	50
8	35.56	**SMSTB 2,5/ 8-ST-5,08**	**1826348**	50
9	40.64	**SMSTB 2,5/ 9-ST-5,08**	**1826351**	50
10	45.72	**SMSTB 2,5/10-ST-5,08**	**1826364**	50
11	50.80	**SMSTB 2,5/11-ST-5,08**	**1826377**	50
12	55.88	**SMSTB 2,5/12-ST-5,08**	**1826380**	50
13	60.96	**SMSTB 2,5/13-ST-5,08**	**1826393**	50
14	66.04	**SMSTB 2,5/14-ST-5,08**	**1826403**	50
15	71.12	**SMSTB 2,5/15-ST-5,08**	**1826416**	50
16	76.20	**SMSTB 2,5/16-ST-5,08**	**1826429**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
SMSTB 2,5/ 2-STF	**1970870**	50
SMSTB 2,5/ 3-STF	**1970883**	50
SMSTB 2,5/ 4-STF	**1970896**	50
SMSTB 2,5/ 5-STF	**1970906**	50
SMSTB 2,5/ 6-STF	**1970919**	50
SMSTB 2,5/ 7-STF	**1970922**	50
SMSTB 2,5/ 8-STF	**1970935**	50
SMSTB 2,5/ 9-STF	**1970948**	50
SMSTB 2,5/10-STF	**1970951**	50
SMSTB 2,5/11-STF	**1970964**	50
SMSTB 2,5/12-STF	**1970977**	50
SMSTB 2,5/13-STF	**1970980**	50
SMSTB 2,5/14-STF	**1970993**	50
SMSTB 2,5/15-STF	**1971002**	50
SMSTB 2,5/16-STF	**1971015**	50
5.08 mm pitch, color: Green		
SMSTB 2,5/ 2-STF-5,08	**1971060**	50
SMSTB 2,5/ 3-STF-5,08	**1971073**	50
SMSTB 2,5/ 4-STF-5,08	**1971086**	50
SMSTB 2,5/ 5-STF-5,08	**1971099**	50
SMSTB 2,5/ 6-STF-5,08	**1971109**	50
SMSTB 2,5/ 7-STF-5,08	**1971112**	50
SMSTB 2,5/ 8-STF-5,08	**1971125**	50
SMSTB 2,5/ 9-STF-5,08	**1971138**	50
SMSTB 2,5/10-STF-5,08	**1971141**	50
SMSTB 2,5/11-STF-5,08	**1971154**	50
SMSTB 2,5/12-STF-5,08	**1971167**	50
SMSTB 2,5/13-STF-5,08	**1971170**	50
SMSTB 2,5/14-STF-5,08	**1971183**	50
SMSTB 2,5/15-STF-5,08	**1971196**	50
SMSTB 2,5/16-STF-5,08	**1971206**	50

Ordering data

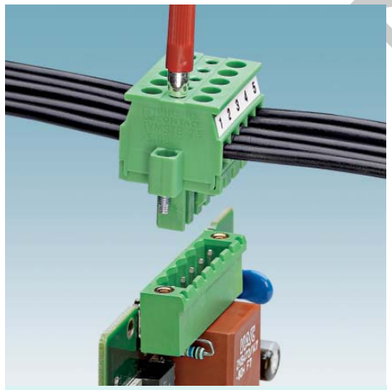
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
FRONT-MSTB 2,5/ 2-STF	**1779411**	50
FRONT-MSTB 2,5/ 3-STF	**1779424**	50
FRONT-MSTB 2,5/ 4-STF	**1779437**	50
FRONT-MSTB 2,5/ 5-STF	**1779440**	50
FRONT-MSTB 2,5/ 6-STF	**1779453**	50
FRONT-MSTB 2,5/ 7-STF	**1779466**	50
FRONT-MSTB 2,5/ 8-STF	**1779479**	50
FRONT-MSTB 2,5/ 9-STF	**1779482**	50
FRONT-MSTB 2,5/10-STF	**1779495**	50
FRONT-MSTB 2,5/11-ST	**1779505**	50
FRONT-MSTB 2,5/12-ST	**1779518**	50
FRONT-MSTB 2,5/13-ST	**1779521**	50
FRONT-MSTB 2,5/14-ST	**1779534**	50
FRONT-MSTB 2,5/15-ST	**1779547**	50
FRONT-MSTB 2,5/16-ST	**1779550**	50
5.08 mm pitch, color: Green		
FRONT-MSTB 2,5/ 2-ST-5,08	**1777280**	50
FRONT-MSTB 2,5/ 3-ST-5,08	**1777293**	50
FRONT-MSTB 2,5/ 4-ST-5,08	**1777303**	50
FRONT-MSTB 2,5/ 5-ST-5,08	**1777316**	50
FRONT-MSTB 2,5/ 6-ST-5,08	**1777329**	50
FRONT-MSTB 2,5/ 7-ST-5,08	**1777332**	50
FRONT-MSTB 2,5/ 8-ST-5,08	**1777345**	50
FRONT-MSTB 2,5/ 9-ST-5,08	**1777358**	50
FRONT-MSTB 2,5/10-ST-5,08	**1777361**	50
FRONT-MSTB 2,5/11-ST-5,08	**1777374**	50
FRONT-MSTB 2,5/12-ST-5,08	**1777387**	50
FRONT-MSTB 2,5/13-ST-5,08	**1777390**	50
FRONT-MSTB 2,5/14-ST-5,08	**1777400**	50
FRONT-MSTB 2,5/15-ST-5,08	**1777413**	50
FRONT-MSTB 2,5/16-ST-5,08	**1777426**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
FRONT-MSTB 2,5/ 2-STF	**1779644**	50
FRONT-MSTB 2,5/ 3-STF	**1779657**	50
FRONT-MSTB 2,5/ 4-STF	**1779660**	50
FRONT-MSTB 2,5/ 5-STF	**1779673**	50
FRONT-MSTB 2,5/ 6-STF	**1779686**	50
FRONT-MSTB 2,5/ 7-STF	**1779699**	50
FRONT-MSTB 2,5/ 8-STF	**1779709**	50
FRONT-MSTB 2,5/ 9-STF	**1779712**	50
FRONT-MSTB 2,5/10-STF	**1779725**	50
FRONT-MSTB 2,5/11-STF	**1779738**	50
FRONT-MSTB 2,5/12-STF	**1779741**	50
FRONT-MSTB 2,5/13-STF	**1779754**	50
FRONT-MSTB 2,5/14-STF	**1779767**	50
FRONT-MSTB 2,5/15-STF	**1779770**	50
FRONT-MSTB 2,5/16-STF	**1779783**	50
5.08 mm pitch, color: Green		
FRONT-MSTB 2,5/ 2-STF-5,08	**1777808**	50
FRONT-MSTB 2,5/ 3-STF-5,08	**1777811**	50
FRONT-MSTB 2,5/ 4-STF-5,08	**1777824**	50
FRONT-MSTB 2,5/ 5-STF-5,08	**1777837**	50
FRONT-MSTB 2,5/ 6-STF-5,08	**1777840**	50
FRONT-MSTB 2,5/ 7-STF-5,08	**1777853**	50
FRONT-MSTB 2,5/ 8-STF-5,08	**1777798**	50
FRONT-MSTB 2,5/ 9-STF-5,08	**1777866**	50
FRONT-MSTB 2,5/10-STF-5,08	**1777879**	50
FRONT-MSTB 2,5/11-STF-5,08	**1777882**	50
FRONT-MSTB 2,5/12-STF-5,08	**1777895**	50
FRONT-MSTB 2,5/13-STF-5,08	**1777905**	50
FRONT-MSTB 2,5/14-STF-5,08	**1777918**	50
FRONT-MSTB 2,5/15-STF-5,08	**1777921**	50
FRONT-MSTB 2,5/16-STF-5,08	**1777934**	50

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TWIN screw plugs with connection cross section of up to 2.5 mm²



- Convenient double conductor connection for potential / signal distribution directly in the device
- Retaining the function of the following devices when unplugging individual connectors within a device series
- Versions with and without a screw flange
- 2.3 mm Ø test connection

TMSTBP 2,5...:
- For the DeviceNet-compliant version with gold-plated contact system, visit www.phoenixcontact.com

TVMSTB 2,5...:
- Compact TWIN plug
- Conductor exits perpendicular to the plug-in direction

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 259.

The maximum torque for the screw flange is 0.3 Nm.

¹) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

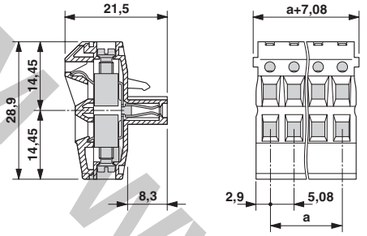
Accessories

For all types	Type	Page
	Keying profile **CP-MSTB** **Order No. 1734634**	38
	Marker cards **SK 5,08/3,8**	798
	Test plug **MPS**	831
	Screwdriver **SZS 0,6 x 3,5** **Order No. 1205053**	



With double screw connection and test connection, plug-in direction parallel to the conductor axis

Dimensional drawing



Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 2.5 mm²
Reduction factor = 0.8
Number of positions = see diagram

Ordering data

No. of pos.	Dim. a [mm]
2	5.08
3	10.16
4	15.24
5	20.32
6	25.40
7	30.48
8	35.56
9	40.64
10	45.72

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
TMSTBP 2,5/ 2-ST-5,08	**1853010**	50
TMSTBP 2,5/ 3-ST-5,08	**1853023**	50
TMSTBP 2,5/ 4-ST-5,08	**1853036**	50
TMSTBP 2,5/ 5-ST-5,08	**1853049**	50
TMSTBP 2,5/ 6-ST-5,08	**1853052**	50
TMSTBP 2,5/ 7-ST-5,08	**1853065**	50
TMSTBP 2,5/ 8-ST-5,08	**1853078**	50
TMSTBP 2,5/ 9-ST-5,08	**1853081**	50
TMSTBP 2,5/10-ST-5,08	**1853094**	50

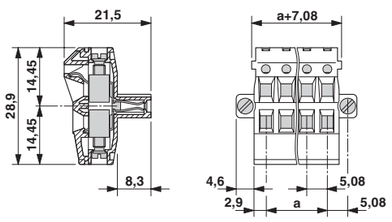
Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	12 / 2.5		
Rated insulation voltage for pollution degree 2	[V]	320		
Pitch	[mm]	5.08		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 2.5 / 0.2 - 2.5 / 24 - 12		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 2.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 2.5		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	0.2 - 1 / 0.2 - 1.5		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 1		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 1.5		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250	320	630
Rated surge voltage	[kV]	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	15	-	15
Connection capacity AWG	AWG	30 - 12	-	30 - 12
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	10	-	10
Connection capacity AWG	AWG	28 - 12	-	28 - 12
General data				
Stripping length	[mm]	7		
Screw thread		M3		
Tightening torque	[Nm]	0.5 - 0.6		
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		



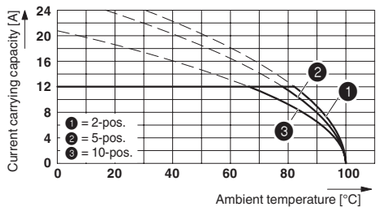
With double screw connection
Test connection and screw flange, plug-in direction parallel to the conductor axis

Dimensional drawing



Representative derating curves of the above-mentioned plugs

Type: TMSTBP 2,5/...-STF-5,08 with MSTBA 2,5/...-GF-5,08



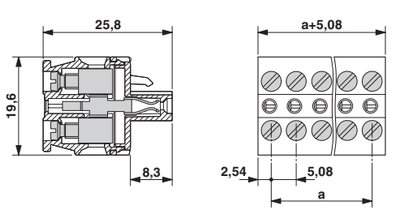
Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
TMSTBP 2,5/ 2-STF-5,08	**1853104**	50
TMSTBP 2,5/ 3-STF-5,08	**1853117**	50
TMSTBP 2,5/ 4-STF-5,08	**1853120**	50
TMSTBP 2,5/ 5-STF-5,08	**1853133**	50
TMSTBP 2,5/ 6-STF-5,08	**1853146**	50
TMSTBP 2,5/ 7-STF-5,08	**1853159**	50
TMSTBP 2,5/ 8-STF-5,08	**1853162**	50
TMSTBP 2,5/ 9-STF-5,08	**1853175**	50
TMSTBP 2,5/10-STF-5,08	**1853188**	50

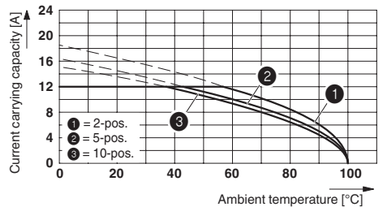


With double screw connection and test connection, plug-in direction vertical to the conductor axis

Dimensional drawing



Type: TVMSTB 2,5/...-ST-5,08 with MSTBVA 2,5/...-G-5,08



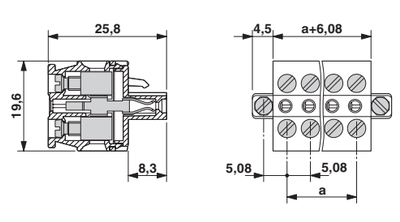
Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
TVMSTB 2,5/ 2-ST-5,08	**1719008**	50
TVMSTB 2,5/ 3-ST-5,08	**1719011**	50
TVMSTB 2,5/ 4-ST-5,08	**1719024**	50
TVMSTB 2,5/ 5-ST-5,08	**1719037**	50
TVMSTB 2,5/ 6-ST-5,08	**1719040**	50
TVMSTB 2,5/ 7-ST-5,08	**1719053**	50
TVMSTB 2,5/ 8-ST-5,08	**1719066**	50
TVMSTB 2,5/ 9-ST-5,08	**1719079**	50
TVMSTB 2,5/10-ST-5,08	**1719082**	50



With double screw connection
Screw flange and test connection, plug-in direction vertical to the conductor axis

Dimensional drawing

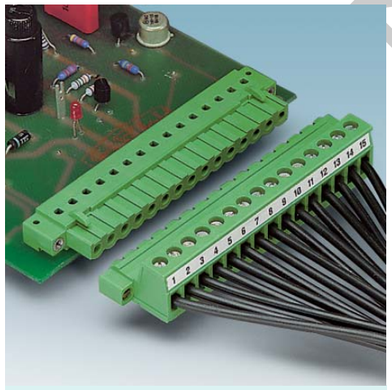


Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
TVMSTB 2,5/ 2-STF-5,08	**1719095**	50
TVMSTB 2,5/ 3-STF-5,08	**1719105**	50
TVMSTB 2,5/ 4-STF-5,08	**1719118**	50
TVMSTB 2,5/ 5-STF-5,08	**1719121**	50
TVMSTB 2,5/ 6-STF-5,08	**1719134**	50
TVMSTB 2,5/ 7-STF-5,08	**1719147**	50
TVMSTB 2,5/ 8-STF-5,08	**1719150**	50
TVMSTB 2,5/ 9-STF-5,08	**1719163**	50
TVMSTB 2,5/10-STF-5,08	**1719176**	50

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Inverted connectors with a screw connection



- Connectors with inverted contact system (male contact)
- Can be combined with inverted headers and connectors for shock-proof applications
- Versions with and without a screw flange
- Higher numbers of positions up to 24-pos. can be found at: **www.phoenixcontact.net/products**
- The IC 2,5/...-STGF-5,08 becomes a panel feed-through terminal block in combination with the IC-DFR assembly frame, see page 350

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

The inverted contact system is explained on page 34.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 259.

The maximum torque for the screw flange is 0.3 Nm.

1) Please observe the derating curves. Derating curves of further combination options on request.

Accessories

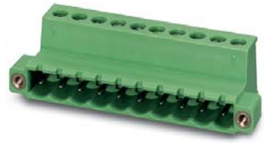
For all types	Type	Page
	Marker cards **SK 5,08/3,8**	798
	Screwdriver **SZS 0,6 x 3,5 Order No. 1205053**	
	Keying section **CR-MSTB Order No. 1734401**	38
	Insertion bridge **EBP...- 5**	829
Only for IC 2,5/ ... -STGF-5,08		
	Feed-through assembly frame **IC-DFR...**	350



Inverted connector with screw connection

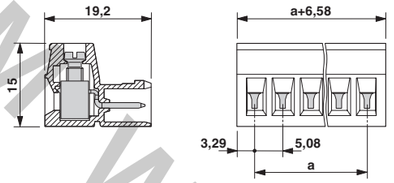


With screw flange, for screw connection using inverted headers

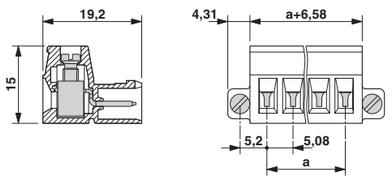


With threaded flange for screw connection using MSTB connectors with screw flange

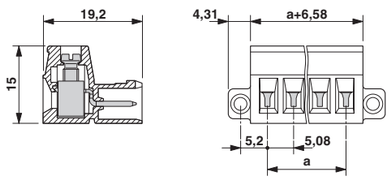
Dimensional drawing



Dimensional drawing



Dimensional drawing

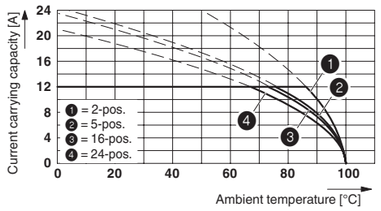


Note derating curves

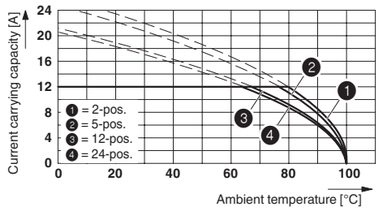
Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 2.5 mm²
Reduction factor = 0.8
Number of positions = see diagram

Representative derating curves of the above-mentioned plugs

Type: MSTB 2,5/...-ST-5,08 with IC 2,5/...-ST-5,08



Type: IC 2,5/...-ST-5,08 with IC 2,5/...-G-5,08



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	12[1]) / 2.5		
Rated insulation voltage for pollution degree 2	[V]	320		
Pitch	[mm]	5.08		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 2.5 / 0.2 - 2.5 / 24 - 12		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 2.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 2.5		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	0.2 - 1 / 0.2 - 1.5		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 1		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 1.5		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250	320	630
Rated surge voltage	[kV]	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	250	-	300
Nominal current	[A]	12	-	10
Connection capacity AWG	AWG	30 - 12	-	30 - 12
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	10	-	10
Connection capacity AWG	AWG	28 - 12	-	28 - 12
General data				
Stripping length	[mm]	7		
Screw thread		M3		
Tightening torque	[Nm]	0.5 - 0.6		
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		

Ordering data

No. of pos.	Dim. a [mm]
2	5.08
3	10.16
4	15.24
5	20.32
6	25.40
7	30.48
8	35.56
9	40.64
10	45.72
11	50.80
12	55.88
13	60.96
14	66.04
15	71.12
16	76.20

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
IC 2,5/ 2-ST-5,08	**1786174**	50
IC 2,5/ 3-ST-5,08	**1786187**	50
IC 2,5/ 4-ST-5,08	**1786190**	50
IC 2,5/ 5-ST-5,08	**1786200**	50
IC 2,5/ 6-ST-5,08	**1786213**	50
IC 2,5/ 7-ST-5,08	**1786226**	50
IC 2,5/ 8-ST-5,08	**1786239**	50
IC 2,5/ 9-ST-5,08	**1786242**	50
IC 2,5/10-ST-5,08	**1786255**	50
IC 2,5/11-ST-5,08	**1786268**	50
IC 2,5/12-ST-5,08	**1786271**	50
IC 2,5/13-ST-5,08	**1786284**	50
IC 2,5/14-ST-5,08	**1786297**	50
IC 2,5/15-ST-5,08	**1786307**	50
IC 2,5/16-ST-5,08	**1786310**	50

Ordering data

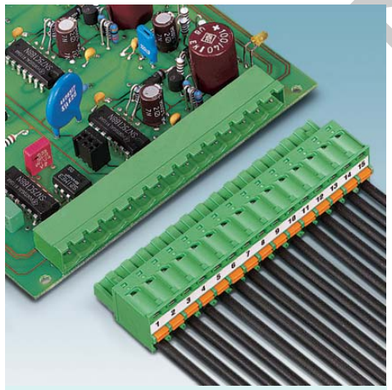
Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
IC 2,5/ 2-STF-5,08	**1825310**	50
IC 2,5/ 3-STF-5,08	**1825323**	50
IC 2,5/ 4-STF-5,08	**1825336**	50
IC 2,5/ 5-STF-5,08	**1825349**	50
IC 2,5/ 6-STF-5,08	**1825352**	50
IC 2,5/ 7-STF-5,08	**1825365**	50
IC 2,5/ 8-STF-5,08	**1825378**	50
IC 2,5/ 9-STF-5,08	**1825381**	50
IC 2,5/10-STF-5,08	**1825394**	50
IC 2,5/11-STF-5,08	**1825404**	50
IC 2,5/12-STF-5,08	**1825417**	50
IC 2,5/13-STF-5,08	**1825420**	50
IC 2,5/14-STF-5,08	**1825433**	50
IC 2,5/15-STF-5,08	**1825446**	50
IC 2,5/16-STF-5,08	**1825459**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
IC 2,5/ 2-STGF-5,08	**1825501**	50
IC 2,5/ 3-STGF-5,08	**1825514**	50
IC 2,5/ 4-STGF-5,08	**1825527**	50
IC 2,5/ 5-STGF-5,08	**1825530**	50
IC 2,5/ 6-STGF-5,08	**1825543**	50
IC 2,5/ 7-STGF-5,08	**1825556**	50
IC 2,5/ 8-STGF-5,08	**1825569**	50
IC 2,5/ 9-STGF-5,08	**1825572**	50
IC 2,5/10-STGF-5,08	**1825585**	50
IC 2,5/11-STGF-5,08	**1825598**	50
IC 2,5/12-STGF-5,08	**1825608**	50
IC 2,5/13-STGF-5,08	**1825611**	50
IC 2,5/14-STGF-5,08	**1825624**	50
IC 2,5/15-STGF-5,08	**1825637**	50
IC 2,5/16-STGF-5,08	**1825640**	50

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Plugs with push-in spring connection



- Fast conductor connection, thanks to push-in spring connection
- Can be combined with the MSTB 2´,5 range
- Contacting of solid or stranded conductors with a ferrule without operating the opening lever directly in the terminal point
- Two test connections to accommodate 2 mm Ø test pins or 2.3 mm Ø test connectors
- Versions with and without a screw flange, with a self-locking flange, and with lock & release levers
- Higher numbers of positions up to 24-pos. can be found at: **www.phoenixcontact.net/products**

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

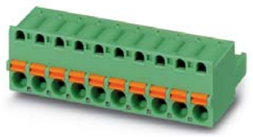
COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 259.

The maximum torque for the screw flange is 0.3 Nm.

1) Please observe the derating curves. Derating curves of further combination options on request.

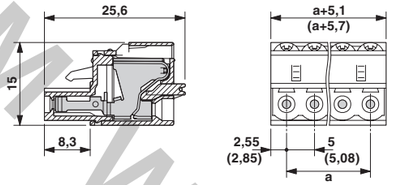
Accessories

For all types	Type	Page
	Marker cards **SK 5/3,8 or SK 5,08/3,8**	798
	Keying profile **CP-MSTB Order No. 1734634**	38
	Strain relief **STZ ...-FKC-5,08**	837
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm² **CRIMPFOX 6 Order No. 1212034**	
	Test plug **MPS**	831



With a test connection

Dimensional drawing



Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 2.5 mm²
Reduction factor = 0.8
Number of positions = see diagram

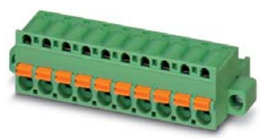
Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	12[1]) / 2.5		
Rated insulation voltage for pollution degree 2	[V]	320		
Pitch	[mm]	5 / 5.08		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 2.5 / 0.2 - 2.5 / 24 - 12		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 2.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 2.5		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	- / -		
Stranded with ferrules without plastic sleeve	[mm²]	-		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 1		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250	320	630
Rated surge voltage	[kV]	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	10	-	10
Connection capacity AWG	AWG	26 - 12	-	26 - 12
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	12	-	10
Connection capacity AWG	AWG	24 - 12	-	24 - 12
General data				
Stripping length	[mm]	10		
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		

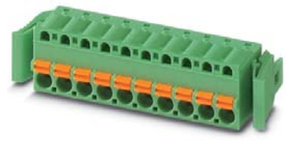
Ordering data

No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00
5	20.00
6	25.00
7	30.00
8	35.00
9	40.00
10	45.00
11	50.00
12	55.00
13	60.00
14	65.00
15	70.00
16	75.00
2	5.08
3	10.16
4	15.24
5	20.32
6	25.40
7	30.48
8	35.56
9	40.64
10	45.72
11	50.80
12	55.88
13	60.96
14	66.04
15	71.12
16	76.20

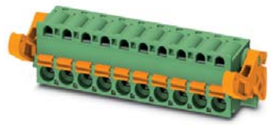
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
FKC 2,5/ 2-ST	1910351	50
FKC 2,5/ 3-ST	1910364	50
FKC 2,5/ 4-ST	1910377	50
FKC 2,5/ 5-ST	1910380	50
FKC 2,5/ 6-ST	1910393	50
FKC 2,5/ 7-ST	1910403	50
FKC 2,5/ 8-ST	1910416	50
FKC 2,5/ 9-ST	1910429	50
FKC 2,5/10-ST	1910432	50
FKC 2,5/11-ST	1910445	50
FKC 2,5/12-ST	1910458	50
FKC 2,5/13-ST	1910461	50
FKC 2,5/14-ST	1910474	50
FKC 2,5/15-ST	1910487	50
FKC 2,5/16-ST	1910490	50
5.08 mm pitch, color: Green		
FKC 2,5/ 2-ST-5,08	1873058	50
FKC 2,5/ 3-ST-5,08	1873061	50
FKC 2,5/ 4-ST-5,08	1873074	50
FKC 2,5/ 5-ST-5,08	1873087	50
FKC 2,5/ 6-ST-5,08	1873090	50
FKC 2,5/ 7-ST-5,08	1873100	50
FKC 2,5/ 8-ST-5,08	1873113	50
FKC 2,5/ 9-ST-5,08	1873126	50
FKC 2,5/10-ST-5,08	1873139	50
FKC 2,5/11-ST-5,08	1873142	50
FKC 2,5/12-ST-5,08	1873155	50
FKC 2,5/13-ST-5,08	1873168	50
FKC 2,5/14-ST-5,08	1873171	50
FKC 2,5/15-ST-5,08	1873184	50
FKC 2,5/16-ST-5,08	1873197	50



With test connection and screw flange

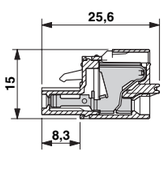


With test connection and self-locking flange

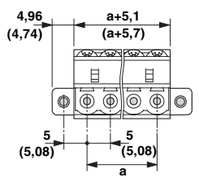


With test connection and lock & release levers for snapping on and ejecting

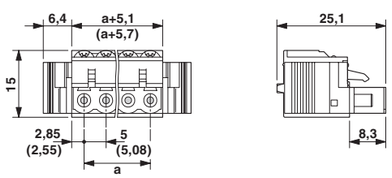
Dimensional drawing



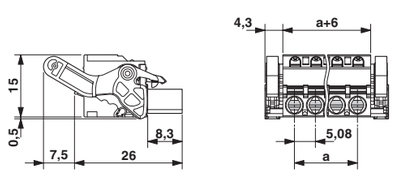
Dimensional drawing



Dimensional drawing

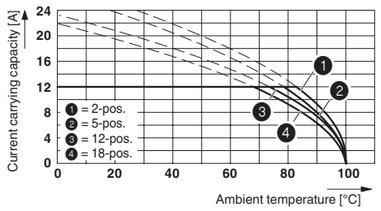


Dimensional drawing

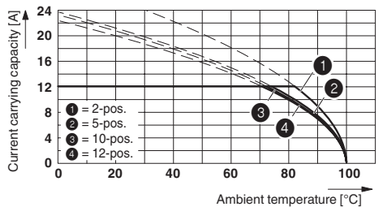


Representative derating curves of the above-mentioned plugs

Type: FKC 2,5/...-ST with MSTBA 2,5/...-G



Type: FKC 2,5/...-ST with FKIC 2,5/...-ST



Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
FKC 2,5/ 2-STF	1910526	50
FKC 2,5/ 3-STF	1910539	50
FKC 2,5/ 4-STF	1910542	50
FKC 2,5/ 5-STF	1910555	50
FKC 2,5/ 6-STF	1910568	50
FKC 2,5/ 7-STF	1910571	50
FKC 2,5/ 8-STF	1910584	50
FKC 2,5/ 9-STF	1910597	50
FKC 2,5/10-STF	1910607	50
FKC 2,5/11-STF	1910610	50
FKC 2,5/12-STF	1910623	50
FKC 2,5/13-STF	1910636	50
FKC 2,5/14-STF	1910649	50
FKC 2,5/15-STF	1910652	50
FKC 2,5/16-STF	1910665	50
5.08 mm pitch, color: Green		
FKC 2,5/ 2-STF-5,08	1873207	50
FKC 2,5/ 3-STF-5,08	1873210	50
FKC 2,5/ 4-STF-5,08	1873223	50
FKC 2,5/ 5-STF-5,08	1873236	50
FKC 2,5/ 6-STF-5,08	1873249	50
FKC 2,5/ 7-STF-5,08	1873252	50
FKC 2,5/ 8-STF-5,08	1873265	50
FKC 2,5/ 9-STF-5,08	1873278	50
FKC 2,5/10-STF-5,08	1873281	50
FKC 2,5/11-STF-5,08	1873294	50
FKC 2,5/12-STF-5,08	1873304	50
FKC 2,5/13-STF-5,08	1873317	50
FKC 2,5/14-STF-5,08	1873320	50
FKC 2,5/15-STF-5,08	1873333	50
FKC 2,5/16-STF-5,08	1873346	50

Ordering data

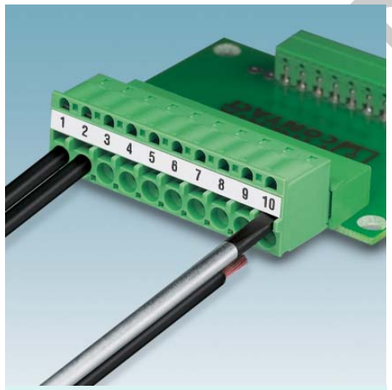
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
FKC 2,5/ 2-ST-RF	1947052	50
FKC 2,5/ 3-ST-RF	1947065	50
FKC 2,5/ 4-ST-RF	1947078	50
FKC 2,5/ 5-ST-RF	1947081	50
FKC 2,5/ 6-ST-RF	1947094	50
FKC 2,5/ 7-ST-RF	1947104	50
FKC 2,5/ 8-ST-RF	1947117	50
FKC 2,5/ 9-ST-RF	1947120	50
FKC 2,5/10-ST-RF	1947133	50
FKC 2,5/11-ST-RF	1947146	50
FKC 2,5/12-ST-RF	1947159	50
FKC 2,5/13-ST-RF	1947162	50
FKC 2,5/14-ST-RF	1947175	50
FKC 2,5/15-ST-RF	1947188	50
FKC 2,5/16-ST-RF	1947191	50
5.08 mm pitch, color: Green		
FKC 2,5/ 2-ST-5,08-RF	1925692	50
FKC 2,5/ 3-ST-5,08-RF	1925702	50
FKC 2,5/ 4-ST-5,08-RF	1925715	50
FKC 2,5/ 5-ST-5,08-RF	1925728	50
FKC 2,5/ 6-ST-5,08-RF	1925731	50
FKC 2,5/ 7-ST-5,08-RF	1925744	50
FKC 2,5/ 8-ST-5,08-RF	1925757	50
FKC 2,5/ 9-ST-5,08-RF	1925760	50
FKC 2,5/10-ST-5,08-RF	1925773	50
FKC 2,5/11-ST-5,08-RF	1925786	50
FKC 2,5/12-ST-5,08-RF	1925799	50
FKC 2,5/13-ST-5,08-RF	1925809	50
FKC 2,5/14-ST-5,08-RF	1925812	50
FKC 2,5/15-ST-5,08-RF	1925825	50
FKC 2,5/16-ST-5,08-RF	1925838	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
FKC 2,5/ 2-ST-5,08-LR	1792517	50
FKC 2,5/ 3-ST-5,08-LR	1792520	50
FKC 2,5/ 4-ST-5,08-LR	1792533	50
FKC 2,5/ 5-ST-5,08-LR	1792546	50
FKC 2,5/ 6-ST-5,08-LR	1792559	50
FKC 2,5/ 7-ST-5,08-LR	1792562	50
FKC 2,5/ 8-ST-5,08-LR	1792575	50
FKC 2,5/ 9-ST-5,08-LR	1792588	50
FKC 2,5/10-ST-5,08-LR	1792591	50
FKC 2,5/11-ST-5,08-LR	1792601	50
FKC 2,5/12-ST-5,08-LR	1792614	50
FKC 2,5/13-ST-5,08-LR	1810900	50
FKC 2,5/14-ST-5,08-LR	1810913	50
FKC 2,5/15-ST-5,08-LR	1810926	50
FKC 2,5/16-ST-5,08-LR	1810939	50

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Plugs with push-in spring connection



- Fast conductor connection, thanks to push-in spring connection
- Versions with and without a screw flange
- Higher numbers of positions up to 20-pos. can be found at: **www.phoenixcontact.net/products**

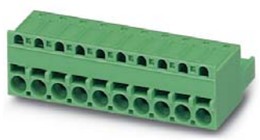
FKCS 2,5/...-ST(F)-...
- with actuation shaft for screwdriver, comfortable "two-hand operation"

FKCT 2,5/...-ST(F)-....
- The cable connection area of the FKCT 2,5/... is located deeper than that of the FKC 2,5/... or the FKCS 2,5/...

Notes:
In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
COMBICON select You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 259.
The maximum torque for the screw flange is 0.3 Nm.
1) Please observe the derating curves. Derating curves of further combination options on request.
2) CSA data for FKCT 2,5/...-ST(F) on request.

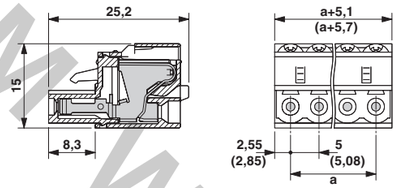
Accessories

For all types	Type	Page
	Marker cards **SK 5/3,8 or SK 5,08/3,8**	798
	Strain relief **STZ ...-FKC-5,08**	837
	Keying profile **CP-MSTB** **Order No.** **1734634**	38
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm² **CRIMPFOX 6** **Order No.** **1212034**	
	Test plug **MPS**	831



With screwdriver actuation shaft and test connection

Dimensional drawing



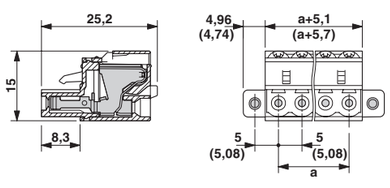
Note derating curves

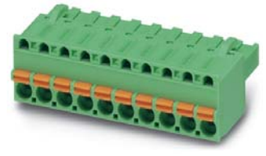
Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 2.5 mm²
Reduction factor = 0.8
Number of positions = see diagram



With screwdriver actuation shaft, test connection and screw flange

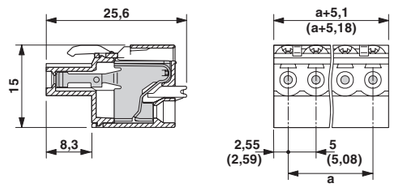
Dimensional drawing

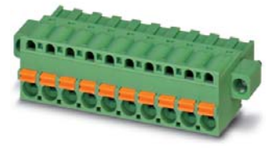




With connection area moved to the top and test connection

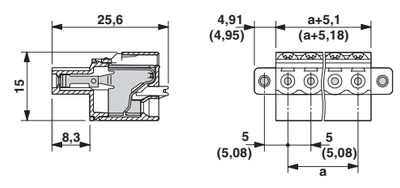
Dimensional drawing





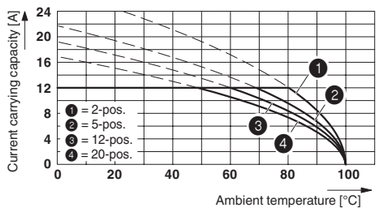
With connection area moved to the top, test connection and screw flange

Dimensional drawing

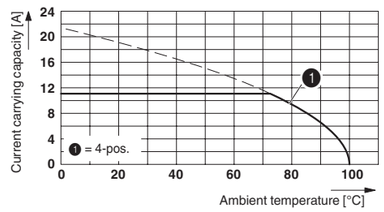


Representative derating curves of the above-mentioned plugs

Type: FKCT 2,5/...-ST with MSTB 2,5/...-G



Type: FKCT 2,5/...-ST with MSTBO 2,5/...-G1L(R)



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	12[1]) / 2.5		
Rated insulation voltage for pollution degree 2	[V]	320		
Pitch	[mm]	5 / 5.08		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 2.5 / 0.2 - 2.5 / 24 - 12		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 2.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 2.5		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	- / -		
Stranded with ferrules without plastic sleeve	[mm²]	-		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 1		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250	320	630
Rated surge voltage	[kV]	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	10	-	10
Connection capacity AWG	AWG	26 - 12	-	26 - 12
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Stripping length	[mm]	10		
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		

No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00
5	20.00
6	25.00
7	30.00
8	35.00
9	40.00
10	45.00
11	50.00
12	55.00
13	60.00
14	65.00
15	70.00
16	75.00
2	5.08
3	10.16
4	15.24
5	20.32
6	25.40
7	30.48
8	35.56
9	40.64
10	45.72
11	50.80
12	55.88
13	60.96
14	66.04
15	71.12
16	76.20

Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
FKCS 2,5/ 2-ST	**1974737**	50
FKCS 2,5/ 3-ST	**1974740**	50
FKCS 2,5/ 4-ST	**1974753**	50
FKCS 2,5/ 5-ST	**1974766**	50
FKCS 2,5/ 6-ST	**1974779**	50
FKCS 2,5/ 7-ST	**1974782**	50
FKCS 2,5/ 8-ST	**1974795**	50
FKCS 2,5/ 9-ST	**1974805**	50
FKCS 2,5/10-ST	**1974818**	50
FKCS 2,5/11-ST	**1974821**	50
FKCS 2,5/12-ST	**1974834**	50
FKCS 2,5/13-ST	**1974847**	50
FKCS 2,5/14-ST	**1974850**	50
FKCS 2,5/15-ST	**1974863**	50
FKCS 2,5/16-ST	**1974876**	50
5.08 mm pitch, color: Green		
FKCS 2,5/ 2-ST-5,08	**1975079**	50
FKCS 2,5/ 3-ST-5,08	**1975082**	50
FKCS 2,5/ 4-ST-5,08	**1975095**	50
FKCS 2,5/ 5-ST-5,08	**1975105**	50
FKCS 2,5/ 6-ST-5,08	**1975118**	50
FKCS 2,5/ 7-ST-5,08	**1975121**	50
FKCS 2,5/ 8-ST-5,08	**1975134**	50
FKCS 2,5/ 9-ST-5,08	**1975147**	50
FKCS 2,5/10-ST-5,08	**1975150**	50
FKCS 2,5/11-ST-5,08	**1975163**	50
FKCS 2,5/12-ST-5,08	**1975176**	50
FKCS 2,5/13-ST-5,08	**1975189**	50
FKCS 2,5/14-ST-5,08	**1975192**	50
FKCS 2,5/15-ST-5,08	**1975202**	50
FKCS 2,5/16-ST-5,08	**1975215**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
FKCS 2,5/ 2-STF	**1974928**	50
FKCS 2,5/ 3-STF	**1974931**	50
FKCS 2,5/ 4-STF	**1974944**	50
FKCS 2,5/ 5-STF	**1974957**	50
FKCS 2,5/ 6-STF	**1974960**	50
FKCS 2,5/ 7-STF	**1974973**	50
FKCS 2,5/ 8-STF	**1974986**	50
FKCS 2,5/ 9-STF	**1974999**	50
FKCS 2,5/10-STF	**1975008**	50
FKCS 2,5/11-STF	**1975011**	50
FKCS 2,5/12-STF	**1975024**	50
FKCS 2,5/13-STF	**1975037**	50
FKCS 2,5/14-STF	**1975040**	50
FKCS 2,5/15-STF	**1975053**	50
FKCS 2,5/16-STF	**1975066**	50
5.08 mm pitch, color: Green		
FKCS 2,5/ 2-STF-5,08	**1975260**	50
FKCS 2,5/ 3-STF-5,08	**1975273**	50
FKCS 2,5/ 4-STF-5,08	**1975286**	50
FKCS 2,5/ 5-STF-5,08	**1975299**	50
FKCS 2,5/ 6-STF-5,08	**1975309**	50
FKCS 2,5/ 7-STF-5,08	**1975312**	50
FKCS 2,5/ 8-STF-5,08	**1975325**	50
FKCS 2,5/ 9-STF-5,08	**1975338**	50
FKCS 2,5/10-STF-5,08	**1975341**	50
FKCS 2,5/11-STF-5,08	**1975354**	50
FKCS 2,5/12-STF-5,08	**1975367**	50
FKCS 2,5/13-STF-5,08	**1975370**	50
FKCS 2,5/14-STF-5,08	**1975383**	50
FKCS 2,5/15-STF-5,08	**1975396**	50
FKCS 2,5/16-STF-5,08	**1975406**	50

Ordering data

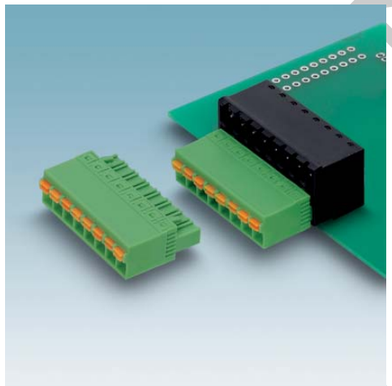
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
FKCT 2,5/ 2-ST	**1909210**	50
FKCT 2,5/ 3-ST	**1909223**	50
FKCT 2,5/ 4-ST	**1909236**	50
FKCT 2,5/ 5-ST	**1909249**	50
FKCT 2,5/ 6-ST	**1909252**	50
FKCT 2,5/ 7-ST	**1909265**	50
FKCT 2,5/ 8-ST	**1909278**	50
FKCT 2,5/ 9-ST	**1909281**	50
FKCT 2,5/10-ST	**1909294**	50
FKCT 2,5/11-ST	**1909304**	50
FKCT 2,5/12-ST	**1909317**	50
FKCT 2,5/13-ST	**1909320**	50
FKCT 2,5/14-ST	**1909333**	50
FKCT 2,5/15-ST	**1909346**	50
FKCT 2,5/16-ST	**1909359**	50
5.08 mm pitch, color: Green		
FKCT 2,5/ 2-ST-5,08	**1902110**	50
FKCT 2,5/ 3-ST-5,08	**1902123**	50
FKCT 2,5/ 4-ST-5,08	**1902136**	50
FKCT 2,5/ 5-ST-5,08	**1902149**	50
FKCT 2,5/ 6-ST-5,08	**1902152**	50
FKCT 2,5/ 7-ST-5,08	**1902165**	50
FKCT 2,5/ 8-ST-5,08	**1902178**	50
FKCT 2,5/ 9-ST-5,08	**1902181**	50
FKCT 2,5/10-ST-5,08	**1902194**	50
FKCT 2,5/11-ST-5,08	**1902204**	50
FKCT 2,5/12-ST-5,08	**1902217**	50
FKCT 2,5/13-ST-5,08	**1902220**	50
FKCT 2,5/14-ST-5,08	**1902233**	50
FKCT 2,5/15-ST-5,08	**1902246**	50
FKCT 2,5/16-ST-5,08	**1902259**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
FKCT 2,5/ 2-STF	**1909401**	50
FKCT 2,5/ 3-STF	**1909414**	50
FKCT 2,5/ 4-STF	**1909427**	50
FKCT 2,5/ 5-STF	**1909430**	50
FKCT 2,5/ 6-STF	**1909443**	50
FKCT 2,5/ 7-STF	**1909456**	50
FKCT 2,5/ 8-STF	**1909469**	50
FKCT 2,5/ 9-STF	**1909472**	50
FKCT 2,5/10-STF	**1909485**	50
FKCT 2,5/11-STF	**1909498**	50
FKCT 2,5/12-STF	**1909508**	50
FKCT 2,5/13-STF	**1909511**	50
FKCT 2,5/14-STF	**1909524**	50
FKCT 2,5/15-STF	**1909537**	50
FKCT 2,5/16-STF	**1909540**	50
5.08 mm pitch, color: Green		
FKCT 2,5/ 2-STF-5,08	**1902301**	50
FKCT 2,5/ 3-STF-5,08	**1902314**	50
FKCT 2,5/ 4-STF-5,08	**1902327**	50
FKCT 2,5/ 5-STF-5,08	**1902330**	50
FKCT 2,5/ 6-STF-5,08	**1902343**	50
FKCT 2,5/ 7-STF-5,08	**1902356**	50
FKCT 2,5/ 8-STF-5,08	**1902369**	50
FKCT 2,5/ 9-STF-5,08	**1902372**	50
FKCT 2,5/10-STF-5,08	**1902385**	50
FKCT 2,5/11-STF-5,08	**1902398**	50
FKCT 2,5/12-STF-5,08	**1902408**	50
FKCT 2,5/13-STF-5,08	**1902411**	50
FKCT 2,5/14-STF-5,08	**1902424**	50
FKCT 2,5/15-STF-5,08	**1902437**	50
FKCT 2,5/16-STF-5,08	**1902440**	50

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Plugs with push-in spring connection



- Extremely flat design of just 10.9 mm
- Connection space for conductor cross sections of up to 2.5 mm²
- Maximum contact and packing density in combination with double-level CCDN 2,5 headers
- Fast conductor connection, thanks to push-in spring connection
- Convenient operation of the terminal point using a screwdriver
- Versions with and without a screw flange
- Higher numbers of positions up to 18-pos. can be found at: **www.phoenixcontact.net/products**

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 259.

The maximum torque for the screw flange is 0.3 Nm.

[1]) Please observe the derating curves. Derating curves of further combination options on request.

[2]) UL/CUL on request.

[3]) The insulation material type of the 5.08 mm pitch is Pa and the insulation material group is I.

Accessories

For all types	Type	Page
	Keying profile **CP-MSTB** **Order No. 1734634**	38
	Marker cards **SK 5/3,8**	798
	Screwdriver **SZF 1-0,6 x 3,5** **Order No. 1204517**	
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm² **CRIMPFOX 6** **Order No. 1212034**	

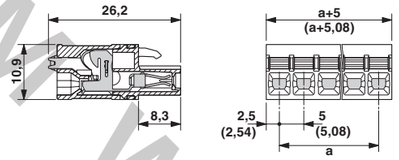


Connector with flat design

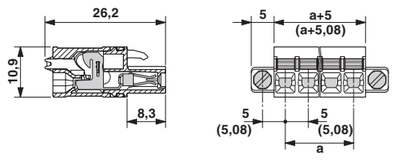


With screw flange

Dimensional drawing



Dimensional drawing

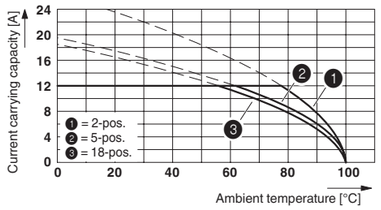


Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 2.5 mm²
Reduction factor = 0.8
Number of positions = see diagram

Representative derating curve

Type: FKCN 2,5/...-ST with CCDN 2,5/...-G1 P26 THR



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	12[1]) / 1.5		
Rated insulation voltage for pollution degree 2	[V]	320		
Pitch	[mm]	5 / 5.08		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 1.5 / 0.2 - 2.5 / 24 - 16		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 1.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 1.5		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	- / -		
Stranded with ferrules without plastic sleeve	[mm²]	-		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	-		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	320	320	630
Rated surge voltage	[kV]	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Stripping length	[mm]	10		
Type of insulation material / insulation material group		PBT / I[3])		
Inflammability class according to UL 94		V0		

Ordering data

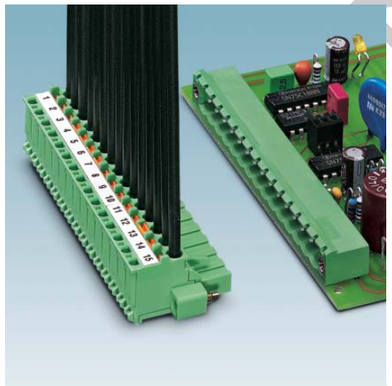
No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		5.0 mm pitch, color: green		
2	5.00	**FKCN 2,5/ 2-ST**	**1732742**	50
3	10.00	**FKCN 2,5/ 3-ST**	**1732755**	50
4	15.00	**FKCN 2,5/ 4-ST**	**1732768**	50
5	20.00	**FKCN 2,5/ 5-ST**	**1732771**	50
6	25.00	**FKCN 2,5/ 6-ST**	**1732784**	50
7	30.00	**FKCN 2,5/ 7-ST**	**1732797**	50
8	35.00	**FKCN 2,5/ 8-ST**	**1732807**	50
9	40.00	**FKCN 2,5/ 9-ST**	**1732810**	50
10	45.00	**FKCN 2,5/10-ST**	**1732823**	50
11	50.00	**FKCN 2,5/11-ST**	**1732833**	50
12	55.00	**FKCN 2,5/12-ST**	**1732836**	50
13	60.00	**FKCN 2,5/13-ST**	**1732849**	50
14	65.00	**FKCN 2,5/14-ST**	**1732852**	50
15	70.00	**FKCN 2,5/15-ST**	**1732865**	50
16	75.00	**FKCN 2,5/16-ST**	**1732878**	50
		5.08 mm pitch, color: Green		
2	5.08	**FKCN 2,5/ 2-ST-5,08**	**1754568**	50
3	10.16	**FKCN 2,5/ 3-ST-5,08**	**1754571**	50
4	15.24	**FKCN 2,5/ 4-ST-5,08**	**1754584**	50
5	20.32	**FKCN 2,5/ 5-ST-5,08**	**1754597**	50
6	25.40	**FKCN 2,5/ 6-ST-5,08**	**1754607**	50
7	30.48	**FKCN 2,5/ 7-ST-5,08**	**1754610**	50
8	35.56	**FKCN 2,5/ 8-ST-5,08**	**1754623**	50
9	40.64	**FKCN 2,5/ 9-ST-5,08**	**1754636**	50
10	45.72	**FKCN 2,5/10-ST-5,08**	**1754649**	50
11	50.80	**FKCN 2,5/11-ST-5,08**	**1754652**	50
12	55.88	**FKCN 2,5/12-ST-5,08**	**1754665**	50
13	60.96	**FKCN 2,5/13-ST-5,08**	**1754678**	50
14	66.04	**FKCN 2,5/14-ST-5,08**	**1754681**	50
15	71.12	**FKCN 2,5/15-ST-5,08**	**1754694**	50
16	76.20	**FKCN 2,5/16-ST-5,08**	**1754704**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
FKCN 2,5/ 2-STF	**1732962**	50
FKCN 2,5/ 3-STF	**1732975**	50
FKCN 2,5/ 4-STF	**1732988**	50
FKCN 2,5/ 5-STF	**1732991**	50
FKCN 2,5/ 6-STF	**1733000**	50
FKCN 2,5/ 7-STF	**1733013**	50
FKCN 2,5/ 8-STF	**1733026**	50
FKCN 2,5/ 9-STF	**1733039**	50
FKCN 2,5/10-STF	**1733042**	50
FKCN 2,5/11-STF	**1733050**	50
FKCN 2,5/12-STF	**1733055**	50
FKCN 2,5/13-STF	**1733068**	50
FKCN 2,5/14-STF	**1733071**	50
FKCN 2,5/15-STF	**1733084**	50
FKCN 2,5/16-STF	**1733097**	50
5.08 mm pitch, color: Green		
FKCN 2,5/ 2-STF-5,08	**1754791**	50
FKCN 2,5/ 3-STF-5,08	**1754801**	50
FKCN 2,5/ 4-STF-5,08	**1754814**	50
FKCN 2,5/ 5-STF-5,08	**1754827**	50
FKCN 2,5/ 6-STF-5,08	**1754830**	50
FKCN 2,5/ 7-STF-5,08	**1754843**	50
FKCN 2,5/ 8-STF-5,08	**1754856**	50
FKCN 2,5/ 9-STF-5,08	**1754869**	50
FKCN 2,5/10-STF-5,08	**1754872**	50
FKCN 2,5/11-STF-5,08	**1754885**	50
FKCN 2,5/12-STF-5,08	**1754898**	50
FKCN 2,5/13-STF-5,08	**1754908**	50
FKCN 2,5/14-STF-5,08	**1754911**	50
FKCN 2,5/15-STF-5,08	**1754924**	50
FKCN 2,5/16-STF-5,08	**1754937**	50

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Plug with push-in spring connection



- Fast conductor connection, thanks to push-in spring connection
- Two test connections to accommodate 2 mm Ø test pins or 2.3 mm Ø test connectors
- Versions with and without a screw flange
- You can find higher numbers of positions under: **www.phoenixcontact.net/products**

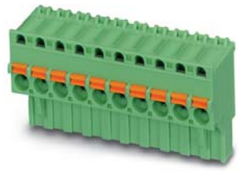
FKCVR 2,5/…-ST-…
- Conductor entry on the coded side of the connector

FKCVW 2,5/…-ST-…
- Conductor entry on the rippled side of the connector

Notes:
In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
COMBICON select You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 259.
The maximum torque for the screw flange is 0.3 Nm.
[1]) Please observe the derating curves. Derating curves of further combination options on request.

Accessories

For all types	Type	Page
	Marker cards **SK 5/3,8 orSK 5,08/3,8**	798
	Screwdriver **SZS 0,6 x 3,5** **Order No.** **1205053**	
	Keying profile **CP-MSTB** **Order No.** **1734634**	38
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm² **CRIMPFOX 6** **Order No.** **1212034**	
	Test plug **MPS**	831



Conductor entry facing keying side



Conductor entry facing keying side, with screw flange

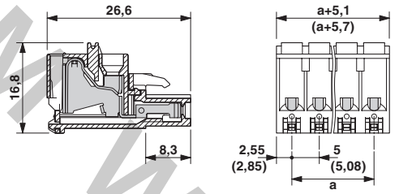


Conductor entry facing rippled side



Conductor entry facing rippled side, with screw flange

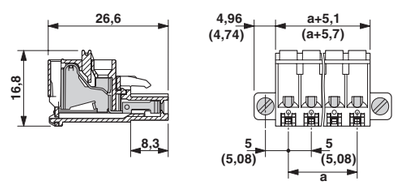
Dimensional drawing



Note derating curves

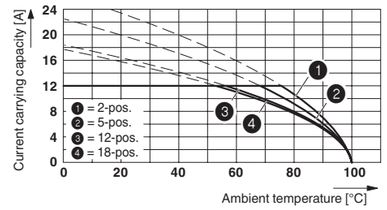
Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 2.5 mm²
Reduction factor = 0.8
Number of positions = see diagram

Dimensional drawing

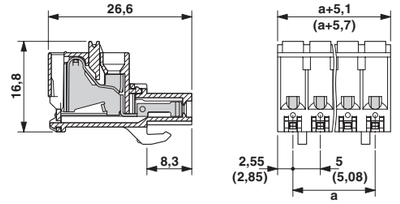


Representative derating curve

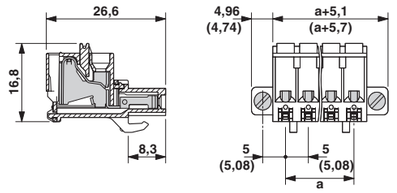
Type: FKCVR 2,5/...-ST(-5,08) with MSTBA 2,5/...-G(-5,08)



Dimensional drawing



Dimensional drawing



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	12[1]) / 2.5		
Rated insulation voltage for pollution degree 2	[V]	320		
Pitch	[mm]	5 / 5.08		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 2.5 / 0.2 - 2.5 / 24 - 12		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 2.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 2.5		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	- / -		
Stranded with ferrules without plastic sleeve	[mm²]	-		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 1.5		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250	320	630
Rated surge voltage	[kV]	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	10	-	10
Connection capacity AWG	AWG	26 - 12	-	26 - 12
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Stripping length	[mm]	10		
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		

Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		5.0 mm pitch, color: green		
2	5.00	**FKCVR 2,5/ 2-ST**	**1909715**	50
3	10.00	**FKCVR 2,5/ 3-ST**	**1909728**	50
4	15.00	**FKCVR 2,5/ 4-ST**	**1909731**	50
5	20.00	**FKCVR 2,5/ 5-ST**	**1909744**	50
7	30.00	**FKCVR 2,5/ 7-ST**	**1909760**	50
8	35.00	**FKCVR 2,5/ 8-ST**	**1909773**	50
9	40.00	**FKCVR 2,5/ 9-ST**	**1909786**	50
10	45.00	**FKCVR 2,5/10-ST**	**1909799**	50
11	50.00	**FKCVR 2,5/11-ST**	**1909809**	50
12	55.00	**FKCVR 2,5/12-ST**	**1909812**	50
13	60.00	**FKCVR 2,5/13-ST**	**1909825**	50
14	65.00	**FKCVR 2,5/14-ST**	**1909838**	50
15	70.00	**FKCVR 2,5/15-ST**	**1909841**	50
16	75.00	**FKCVR 2,5/16-ST**	**1909854**	50
		5.08 mm pitch, color: Green		
2	5.08	**FKCVR 2,5/ 2-ST-5,08**	**1873951**	50
3	10.16	**FKCVR 2,5/ 3-ST-5,08**	**1873964**	50
4	15.24	**FKCVR 2,5/ 4-ST-5,08**	**1873977**	50
5	30.32	**FKCVR 2,5/ 5-ST-5,08**	**1873980**	50
6	25.40	**FKCVR 2,5/ 6-ST-5,08**	**1873993**	50
7	30.48	**FKCVR 2,5/ 7-ST-5,08**	**1874002**	50
8	35.56	**FKCVR 2,5/ 8-ST-5,08**	**1874015**	50
9	40.64	**FKCVR 2,5/ 9-ST-5,08**	**1874028**	50
10	45.72	**FKCVR 2,5/10-ST-5,08**	**1874031**	50
11	50.80	**FKCVR 2,5/11-ST-5,08**	**1874044**	50
12	55.88	**FKCVR 2,5/12-ST-5,08**	**1874057**	50
13	60.96	**FKCVR 2,5/13-ST-5,08**	**1874060**	50
14	66.04	**FKCVR 2,5/14-ST-5,08**	**1874073**	50
15	71.12	**FKCVR 2,5/15-ST-5,08**	**1874086**	50
16	76.20	**FKCVR 2,5/16-ST-5,08**	**1874099**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
FKCVR 2,5/ 2-STF	**1909883**	50
FKCVR 2,5/ 3-STF	**1909896**	50
FKCVR 2,5/ 4-STF	**1909906**	50
FKCVR 2,5/ 5-STF	**1909919**	50
FKCVR 2,5/ 7-STF	**1909935**	50
FKCVR 2,5/ 8-STF	**1909948**	50
FKCVR 2,5/ 9-STF	**1909951**	50
FKCVR 2,5/10-STF	**1909964**	50
FKCVR 2,5/11-STF	**1909977**	50
FKCVR 2,5/12-STF	**1909980**	50
FKCVR 2,5/13-STF	**1909993**	50
FKCVR 2,5/14-STF	**1910005**	50
FKCVR 2,5/15-STF	**1910018**	50
FKCVR 2,5/16-STF	**1910021**	50
5.08 mm pitch, color: Green		
FKCVR 2,5/ 2-STF-5,08	**1874109**	50
FKCVR 2,5/ 3-STF-5,08	**1874112**	50
FKCVR 2,5/ 4-STF-5,08	**1874125**	50
FKCVR 2,5/ 5-STF-5,08	**1874138**	50
FKCVR 2,5/ 6-STF-5,08	**1874141**	50
FKCVR 2,5/ 7-STF-5,08	**1874154**	50
FKCVR 2,5/ 8-STF-5,08	**1874167**	50
FKCVR 2,5/ 9-STF-5,08	**1874170**	50
FKCVR 2,5/10-STF-5,08	**1874183**	50
FKCVR 2,5/11-STF-5,08	**1874196**	50
FKCVR 2,5/12-STF-5,08	**1874206**	50
FKCVR 2,5/13-STF-5,08	**1874219**	50
FKCVR 2,5/14-STF-5,08	**1874222**	50
FKCVR 2,5/15-STF-5,08	**1874235**	50
FKCVR 2,5/16-STF-5,08	**1874248**	50

Ordering data

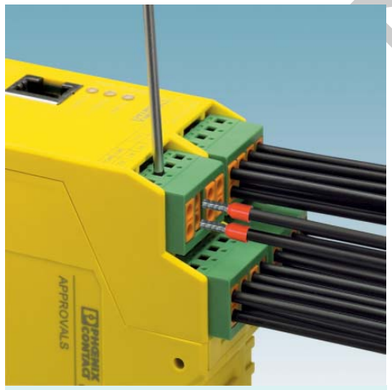
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
FKCVW 2,5/ 2-ST	**1910034**	50
FKCVW 2,5/ 3-ST	**1910047**	50
FKCVW 2,5/ 4-ST	**1910050**	50
FKCVW 2,5/ 5-ST	**1910063**	50
FKCVW 2,5/ 7-ST	**1910089**	50
FKCVW 2,5/ 8-ST	**1910092**	50
FKCVW 2,5/ 9-ST	**1910102**	50
FKCVW 2,5/10-ST	**1910115**	50
FKCVW 2,5/11-ST	**1910128**	50
FKCVW 2,5/12-ST	**1910131**	50
FKCVW 2,5/13-ST	**1910144**	50
FKCVW 2,5/14-ST	**1910157**	50
FKCVW 2,5/15-ST	**1910160**	50
FKCVW 2,5/16-ST	**1910173**	50
5.08 mm pitch, color: Green		
FKCVW 2,5/ 2-ST-5,08	**1873650**	50
FKCVW 2,5/ 3-ST-5,08	**1873663**	50
FKCVW 2,5/ 4-ST-5,08	**1873676**	50
FKCVW 2,5/ 5-ST-5,08	**1873689**	50
FKCVW 2,5/ 6-ST-5,08	**1873692**	50
FKCVW 2,5/ 7-ST-5,08	**1873702**	50
FKCVW 2,5/ 8-ST-5,08	**1873715**	50
FKCVW 2,5/ 9-ST-5,08	**1873728**	50
FKCVW 2,5/10-ST-5,08	**1873731**	50
FKCVW 2,5/11-ST-5,08	**1873744**	50
FKCVW 2,5/12-ST-5,08	**1873757**	50
FKCVW 2,5/13-ST-5,08	**1873760**	50
FKCVW 2,5/14-ST-5,08	**1873773**	50
FKCVW 2,5/15-ST-5,08	**1873786**	50
FKCVW 2,5/16-ST-5,08	**1873799**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
FKCVW 2,5/ 2-STF	**1910209**	50
FKCVW 2,5/ 3-STF	**1910212**	50
FKCVW 2,5/ 4-STF	**1910225**	50
FKCVW 2,5/ 5-STF	**1910238**	50
FKCVW 2,5/ 7-STF	**1910254**	50
FKCVW 2,5/ 8-STF	**1910267**	50
FKCVW 2,5/ 9-STF	**1910270**	50
FKCVW 2,5/10-STF	**1910283**	50
FKCVW 2,5/11-STF	**1910296**	50
FKCVW 2,5/12-STF	**1910306**	50
FKCVW 2,5/13-STF	**1910319**	50
FKCVW 2,5/14-STF	**1910322**	50
FKCVW 2,5/15-STF	**1910335**	50
FKCVW 2,5/16-STF	**1910348**	50
5.08 mm pitch, color: Green		
FKCVW 2,5/ 2-STF-5,08	**1873809**	50
FKCVW 2,5/ 3-STF-5,08	**1873812**	50
FKCVW 2,5/ 4-STF-5,08	**1873825**	50
FKCVW 2,5/ 5-STF-5,08	**1873838**	50
FKCVW 2,5/ 6-STF-5,08	**1873841**	50
FKCVW 2,5/ 7-STF-5,08	**1873854**	50
FKCVW 2,5/ 8-STF-5,08	**1873867**	50
FKCVW 2,5/ 9-STF-5,08	**1873870**	50
FKCVW 2,5/10-STF-5,08	**1873883**	50
FKCVW 2,5/11-STF-5,08	**1873896**	50
FKCVW 2,5/12-STF-5,08	**1873906**	50
FKCVW 2,5/13-STF-5,08	**1873919**	50
FKCVW 2,5/14-STF-5,08	**1873922**	50
FKCVW 2,5/15-STF-5,08	**1873935**	50
FKCVW 2,5/16-STF-5,08	**1873948**	50

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Plug with push-in spring connection



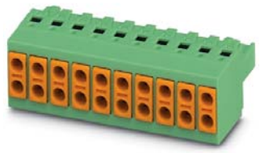
- Front TWIN connection for 1.5 mm²
- Additional actuation option of 90° in relation to the conductor axis
- For 90° actuation in relation to the conductor axis, the TVFKCL 1.5 extended design is required in the lower level of the ME housing

Notes:

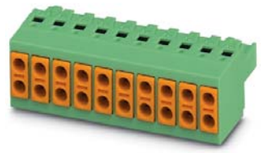
In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 259.

¹) Please observe the derating curves. Derating curves of further combination options on request.



With double connection, short design

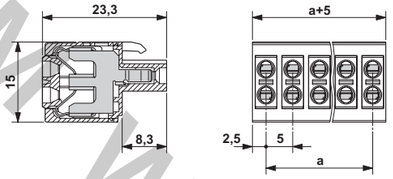


With double connection, long design

Accessories

For all types	Type	Page
	Keying profile **CP-MSTB Order No. 1734634**	38
	Screwdriver **SZF 0-0,4 x 2,5 Order No. 1204504**	
	Marker cards **SK 5/3,8**	798
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm² **CRIMPFOX 6 Order No. 1212034**	

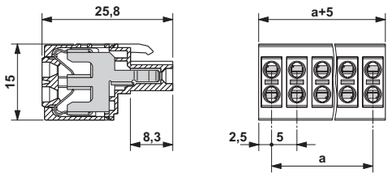
Dimensional drawing



Note derating curves

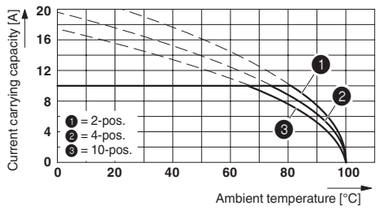
Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 1.5 mm²
Reduction factor = 0.8
Number of positions = see diagram

Dimensional drawing



Representative derating curve

Type: TVFKC 1,5/...-ST with MSTBA 2,5/...-G



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	10¹) / 1.5		
Rated insulation voltage for pollution degree 2	[V]	320		
Pitch	[mm]	5		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 1.5 / 0.2 - 1.5 / 24 - 16		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 1.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 1.5		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	- / -		
Stranded with ferrules without plastic sleeve	[mm²]	-		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	-		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250	320	630
Rated surge voltage	[kV]	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	8	-	8
Connection capacity AWG	AWG	24 - 16	-	24 - 16
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Stripping length	[mm]	8		
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		

Ordering data

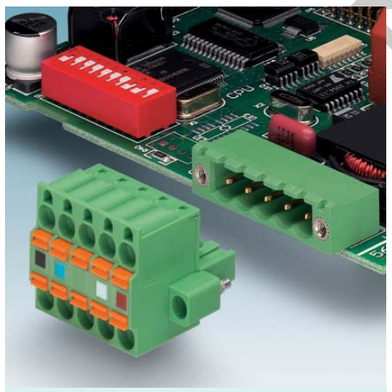
No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		5.0 mm pitch, color: green		
2	5.00	**TVFKC 1,5/ 2-ST**	**1713839**	50
3	10.00	**TVFKC 1,5/ 3-ST**	**1713842**	50
4	15.00	**TVFKC 1,5/ 4-ST**	**1713855**	50
5	20.00	**TVFKC 1,5/ 5-ST**	**1713868**	50
6	25.00	**TVFKC 1,5/ 6-ST**	**1713871**	50
7	30.00	**TVFKC 1,5/ 7-ST**	**1713884**	50
8	35.00	**TVFKC 1,5/ 8-ST**	**1713897**	50
9	40.00	**TVFKC 1,5/ 9-ST**	**1713907**	50
10	45.00	**TVFKC 1,5/10-ST**	**1713910**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
TVFKCL 1,5/ 2-ST	**1715921**	50
TVFKCL 1,5/ 3-ST	**1715934**	50
TVFKCL 1,5/ 4-ST	**1715947**	50
TVFKCL 1,5/ 5-ST	**1715950**	50
TVFKCL 1,5/ 6-ST	**1715963**	50
TVFKCL 1,5/ 7-ST	**1715976**	50
TVFKCL 1,5/ 8-ST	**1715989**	50
TVFKCL 1,5/ 9-ST	**1715992**	50
TVFKCL 1,5/10-ST	**1716001**	50

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Plug with push-in spring connection



- Front TWIN connection for 2.5 mm²
- Integrated 2.3 mm Ø test connection
- DeviceNet-compliant design with a gold-plated contact system
- SK marking strips for DeviceNet color coding: SK 5,08/3,8 DN / order no. 1965458

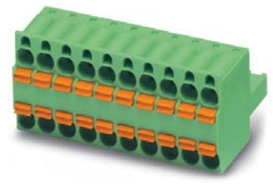
Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 259.

The maximum torque for the screw flange is 0.3 Nm.

¹) Please observe the derating curves. Derating curves of further combination options on request.



With double connection

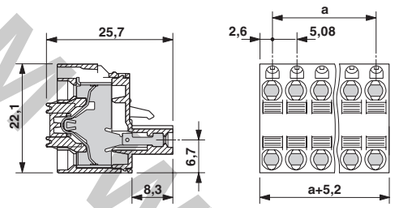


With double connection and screw flange

Accessories

For all types	Type	Page
	Marking card, 4-color, for DeviceNet applications **SK 5,08/3,8 DN** **Order No. 1965458**	
	Screwdriver **SZS 0,6 x 3,5** **Order No. 1205053**	
	Keying profile **CP-MSTB** **Order No. 1734634**	38
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm² **CRIMPFOX 6** **Order No. 1212034**	
	Test plug **MPS**	831

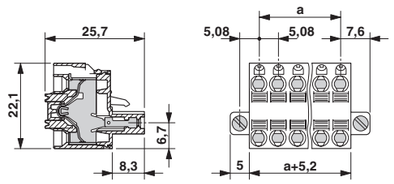
Dimensional drawing



Note derating curves

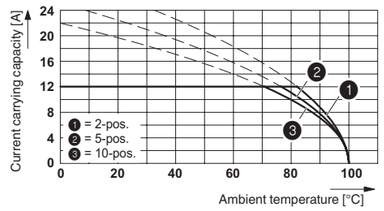
Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 2.5 mm²
Reduction factor = 0.8
Number of positions = see diagram

Dimensional drawing



Representative derating curve

Type: TFKC 2,5/...-ST-5,08 with MSTBA 2,5/...-G-5,08



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	12¹) / 2.5		
Rated insulation voltage for pollution degree 2	[V]	320		
Pitch	[mm]	5.08		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 2.5 / 0.2 - 2.5 / 24 - 12		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 2.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 1.5		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	- / -		
Stranded with ferrules without plastic sleeve	[mm²]	-		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 1		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	320	320	630
Rated surge voltage	[kV]	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	10	-	10
Connection capacity AWG	AWG	26 - 12	-	26 - 12
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Stripping length	[mm]	10		
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		

No. of pos.	Dim. a [mm]
2	5.08
3	10.16
4	15.24
5	20.32
6	25.40
7	30.48
8	35.56
9	40.64
10	45.72
5	20.32
7	30.48
8	35.56

Ordering data

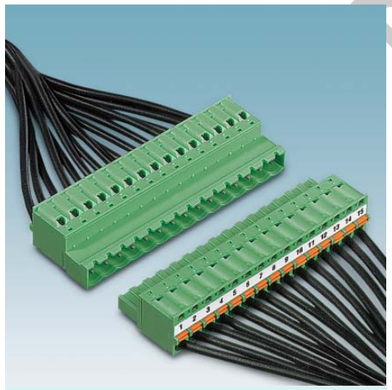
Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
TFKC 2,5/ 2-ST-5,08	**1962600**	50
TFKC 2,5/ 3-ST-5,08	**1962613**	50
TFKC 2,5/ 4-ST-5,08	**1962626**	50
TFKC 2,5/ 5-ST-5,08	**1962639**	50
TFKC 2,5/ 6-ST-5,08	**1962642**	50
TFKC 2,5/ 7-ST-5,08	**1962655**	50
TFKC 2,5/ 8-ST-5,08	**1962668**	50
TFKC 2,5/ 9-ST-5,08	**1962671**	50
TFKC 2,5/10-ST-5,08	**1962684**	50
5.08 mm pitch, color: Green, contact system: Gold-plated		
TFKC 2,5/ 5-ST-5,08 AU	**1965461**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
TFKC 2,5/ 2-STF-5,08	**1962697**	50
TFKC 2,5/ 3-STF-5,08	**1962707**	50
TFKC 2,5/ 4-STF-5,08	**1962710**	50
TFKC 2,5/ 5-STF-5,08	**1962723**	50
TFKC 2,5/ 6-STF-5,08	**1962736**	50
TFKC 2,5/ 7-STF-5,08	**1962749**	50
TFKC 2,5/ 8-STF-5,08	**1962752**	50
TFKC 2,5/ 9-STF-5,08	**1962765**	50
TFKC 2,5/10-STF-5,08	**1962778**	50
5.08 mm pitch, color: Green, contact system: Gold-plated		
TFKC 2,5/ 5-STF-5,08 AU	**1962590**	50
TFKC 2,5/ 7-STF-5,08 AU	**1765748**	50
TFKC 2,5/ 8-STF-5,08 AU	**1710272**	50

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Inverted plugs with push-in spring connection



- Connectors with inverted contact system (male contact)
- Can be combined with inverted headers and connectors for shock-proof applications
- Versions with and without a screw flange
- Versions with engagement noses for locking plugs with self-locking flanges
- SK 5/3,8 or SK 5,08/3,8 marker cards can be found on page 798

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

The inverted contact system is explained on page 34.

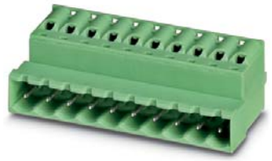
COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 259.

The maximum torque for the screw flange is 0.3 Nm.

1) Please observe the derating curves. Derating curves of further combination options on request.

Accessories

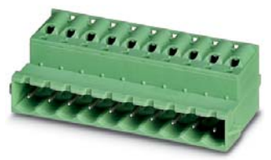
For all types	Type	Page
	Keying section **CR-MSTB** **Order No.** **1734401**	38
	Strain relief **STZ ...-FKC-5,08**	837
	Screwdriver **SZS 0,6 x 3,5** **Order No.** **1205053**	
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm² **CRIMPFOX 6** **Order No.** **1212034**	
	Test plug **MPS**	831



Inverted plug with push-in spring connection

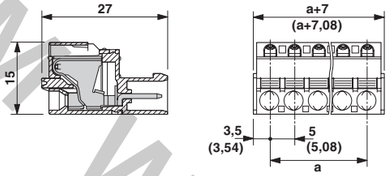


With screw flange, for screw connection using inverted headers

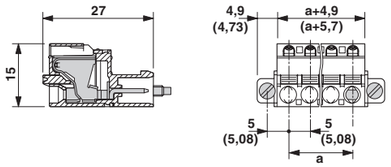


With engagement nose for snapping onto connectors with a self-locking flange

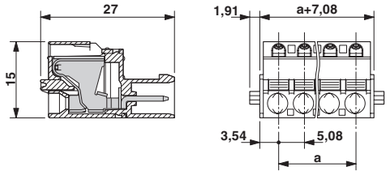
Dimensional drawing



Dimensional drawing



Dimensional drawing

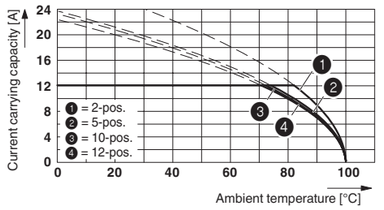


Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 2.5 mm²
Reduction factor = 0.8
Number of positions = see diagram

Representative derating curve

Type: FKC 2,5/...-ST with FKIC 2,5/...-ST



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	12¹) / 2.5		
Rated insulation voltage for pollution degree 2	[V]	320		
Pitch	[mm]	5 / 5.08		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 2.5 / 0.2 - 2.5 / 24 - 12		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 2.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 2.5		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	- / -		
Stranded with ferrules without plastic sleeve	[mm²]	-		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 1		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	320	320	630
Rated surge voltage	[kV]	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	10	-	10
Connection capacity AWG	AWG	26 - 12	-	26 - 12
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Stripping length	[mm]	10		
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		

Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		5.0 mm pitch, color: green		
2	5.00	**FKIC 2,5/ 2-ST**	**1910678**	50
3	10.00	**FKIC 2,5/ 3-ST**	**1910681**	50
4	15.00	**FKIC 2,5/ 4-ST**	**1910694**	50
5	20.00	**FKIC 2,5/ 5-ST**	**1910704**	50
6	25.00	**FKIC 2,5/ 6-ST**	**1910717**	50
7	30.00	**FKIC 2,5/ 7-ST**	**1910720**	50
8	35.00	**FKIC 2,5/ 8-ST**	**1910733**	50
9	40.00	**FKIC 2,5/ 9-ST**	**1910746**	50
10	45.00	**FKIC 2,5/10-ST**	**1910759**	50
11	50.00	**FKIC 2,5/11-ST**	**1910762**	50
12	55.00	**FKIC 2,5/12-ST**	**1910775**	50
13	60.00	**FKIC 2,5/13-ST**	**1910788**	50
14	65.00	**FKIC 2,5/14-ST**	**1910791**	50
15	70.00	**FKIC 2,5/15-ST**	**1910801**	50
16	75.00	**FKIC 2,5/16-ST**	**1910814**	50
		5.08 mm pitch, color: Green		
2	5.08	**FKIC 2,5/ 2-ST-5,08**	**1873359**	50
3	10.16	**FKIC 2,5/ 3-ST-5,08**	**1873362**	50
4	15.24	**FKIC 2,5/ 4-ST-5,08**	**1873375**	50
5	20.32	**FKIC 2,5/ 5-ST-5,08**	**1873388**	50
6	25.40	**FKIC 2,5/ 6-ST-5,08**	**1873391**	50
7	30.48	**FKIC 2,5/ 7-ST-5,08**	**1873401**	50
8	35.56	**FKIC 2,5/ 8-ST-5,08**	**1873414**	50
9	40.64	**FKIC 2,5/ 9-ST-5,08**	**1873427**	50
10	45.72	**FKIC 2,5/10-ST-5,08**	**1873430**	50
11	50.80	**FKIC 2,5/11-ST-5,08**	**1873443**	50
12	55.88	**FKIC 2,5/12-ST-5,08**	**1873456**	50
13	60.96	**FKIC 2,5/13-ST-5,08**	**1873469**	50
14	66.04	**FKIC 2,5/14-ST-5,08**	**1873472**	50
15	71.12	**FKIC 2,5/15-ST-5,08**	**1873485**	50
16	76.20	**FKIC 2,5/16-ST-5,08**	**1873498**	50

Ordering data

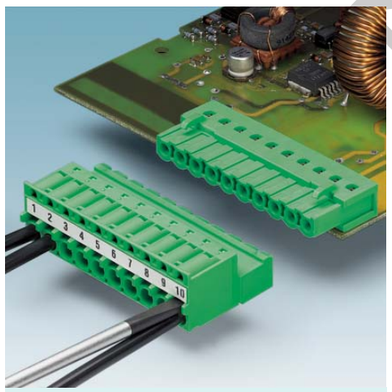
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
FKIC 2,5/ 2-STF	**1910827**	50
FKIC 2,5/ 3-STF	**1910830**	50
FKIC 2,5/ 4-STF	**1910843**	50
FKIC 2,5/ 5-STF	**1910856**	50
FKIC 2,5/ 6-STF	**1910869**	50
FKIC 2,5/ 7-STF	**1910872**	50
FKIC 2,5/ 8-STF	**1910885**	50
FKIC 2,5/ 9-STF	**1910898**	50
FKIC 2,5/10-STF	**1910908**	50
FKIC 2,5/11-STF	**1910911**	50
FKIC 2,5/12-STF	**1910924**	50
FKIC 2,5/13-STF	**1910937**	50
FKIC 2,5/14-STF	**1910940**	50
FKIC 2,5/15-STF	**1910953**	50
FKIC 2,5/16-STF	**1910966**	50
5.08 mm pitch, color: Green		
FKIC 2,5/ 2-STF-5,08	**1873508**	50
FKIC 2,5/ 3-STF-5,08	**1873511**	50
FKIC 2,5/ 4-STF-5,08	**1873524**	50
FKIC 2,5/ 5-STF-5,08	**1873537**	50
FKIC 2,5/ 6-STF-5,08	**1873540**	50
FKIC 2,5/ 7-STF-5,08	**1873553**	50
FKIC 2,5/ 8-STF-5,08	**1873566**	50
FKIC 2,5/ 9-STF-5,08	**1873579**	50
FKIC 2,5/10-STF-5,08	**1873582**	50
FKIC 2,5/11-STF-5,08	**1873595**	50
FKIC 2,5/12-STF-5,08	**1873605**	50
FKIC 2,5/13-STF-5,08	**1873618**	50
FKIC 2,5/14-STF-5,08	**1873621**	50
FKIC 2,5/15-STF-5,08	**1873634**	50
FKIC 2,5/16-STF-5,08	**1873647**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
FKIC 2,5/ 2-ST-5,08-RN	**1925867**	50
FKIC 2,5/ 3-ST-5,08-RN	**1925870**	50
FKIC 2,5/ 4-ST-5,08-RN	**1925883**	50
FKIC 2,5/ 5-ST-5,08-RN	**1925896**	50
FKIC 2,5/ 6-ST-5,08-RN	**1925906**	50
FKIC 2,5/ 7-ST-5,08-RN	**1925919**	50
FKIC 2,5/ 8-ST-5,08-RN	**1925922**	50
FKIC 2,5/ 9-ST-5,08-RN	**1925935**	50
FKIC 2,5/10-ST-5,08-RN	**1925948**	50
FKIC 2,5/11-ST-5,08-RN	**1925951**	50
FKIC 2,5/12-ST-5,08-RN	**1925964**	50
FKIC 2,5/13-ST-5,08-RN	**1925977**	50
FKIC 2,5/14-ST-5,08-RN	**1925980**	50
FKIC 2,5/15-ST-5,08-RN	**1925993**	50
FKIC 2,5/16-ST-5,08-RN	**1926002**	50

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Inverted plugs with push-in spring connection



- Connectors with inverted contact system (male contact)
- Can be combined with inverted headers and connectors for shock-proof applications
- With actuation shaft for screwdriver, user-friendly “two-hand operation”
- Versions with and without a screw flange
- SK 5/3,8 or SK 5,08/3,8 marker cards can be found on page 798

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 259.

The inverted contact system is explained on page 34.

The maximum torque for the screw flange is 0.3 Nm.

[1]) Please observe the derating curves. Derating curves of further combination options on request.

Accessories

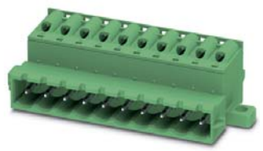
For all types	Type	Page
	Keying section **CR-MSTB** **Order No. 1734401**	38
	Strain relief **STZ ...-FKC-5,08**	837
	Screwdriver **SZS 0,6 x 3,5** **Order No. 1205053**	
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm² **CRIMPFOX 6** **Order No. 1212034**	
	Test plug **MPS**	831



Inverted plug with push-in spring connection, with screwdriver actuation shaft, and test connection

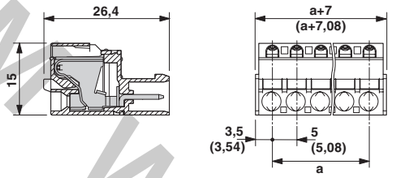


With screw flange, for screw connection using inverted headers

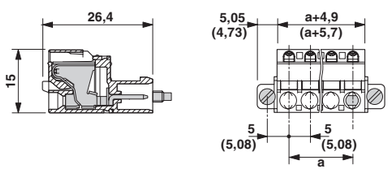


Inverted connector with Push-in spring connection, engagement noses and flanges for direct fixing

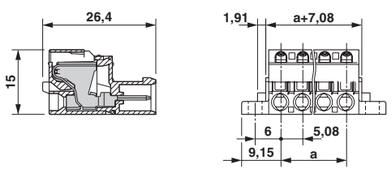
Dimensional drawing



Dimensional drawing



Dimensional drawing

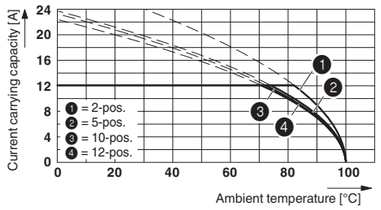


Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 2.5 mm²
Reduction factor = 0.8
Number of positions = see diagram

Representative derating curve

Type: FKC 2,5/...-ST with FKIC 2,5/...-ST



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	12[1]) / 2.5		
Rated insulation voltage for pollution degree 2	[V]	320		
Pitch	[mm]	5 / 5.08		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 2.5 / 0.2 - 2.5 / 24 - 12		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 2.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 2.5		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	- / -		
Stranded with ferrules without plastic sleeve	[mm²]	-		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 1		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	320	320	630
Rated surge voltage	[kV]	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	10	-	10
Connection capacity AWG	AWG	26 - 12	-	26 - 12
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Stripping length	[mm]	10		
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		

Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		5.0 mm pitch, color: green		
2	5.00	**FKICS 2,5/ 2-ST**	**1981445**	50
3	10.00	**FKICS 2,5/ 3-ST**	**1981458**	50
4	15.00	**FKICS 2,5/ 4-ST**	**1981461**	50
5	20.00	**FKICS 2,5/ 5-ST**	**1981474**	50
6	25.00	**FKICS 2,5/ 6-ST**	**1981487**	50
7	30.00	**FKICS 2,5/ 7-ST**	**1981490**	50
8	35.00	**FKICS 2,5/ 8-ST**	**1981500**	50
9	40.00	**FKICS 2,5/ 9-ST**	**1981513**	50
10	45.00	**FKICS 2,5/10-ST**	**1981526**	50
11	50.00	**FKICS 2,5/11-ST**	**1981539**	50
12	55.00	**FKICS 2,5/12-ST**	**1981542**	50
13	60.00	**FKICS 2,5/13-ST**	**1981555**	50
14	65.00	**FKICS 2,5/14-ST**	**1981568**	50
15	70.00	**FKICS 2,5/15-ST**	**1981571**	50
16	75.00	**FKICS 2,5/16-ST**	**1981584**	50
		5.08 mm pitch, color: Green		
2	5.08	**FKICS 2,5/ 2-ST-5,08**	**1981746**	50
3	10.16	**FKICS 2,5/ 3-ST-5,08**	**1981759**	50
4	15.24	**FKICS 2,5/ 4-ST-5,08**	**1981762**	50
5	20.32	**FKICS 2,5/ 5-ST-5,08**	**1981775**	50
6	25.40	**FKICS 2,5/ 6-ST-5,08**	**1981788**	50
7	30.48	**FKICS 2,5/ 7-ST-5,08**	**1981791**	50
8	35.56	**FKICS 2,5/ 8-ST-5,08**	**1981801**	50
9	40.64	**FKICS 2,5/ 9-ST-5,08**	**1981814**	50
10	45.72	**FKICS 2,5/10-ST-5,08**	**1981827**	50
11	50.80	**FKICS 2,5/11-ST-5,08**	**1981830**	50
12	55.88	**FKICS 2,5/12-ST-5,08**	**1981843**	50
13	60.96	**FKICS 2,5/13-ST-5,08**	**1981856**	50
14	66.04	**FKICS 2,5/14-ST-5,08**	**1981869**	50
15	71.12	**FKICS 2,5/15-ST-5,08**	**1981872**	50
16	76.20	**FKICS 2,5/16-ST-5,08**	**1981885**	50

Ordering data

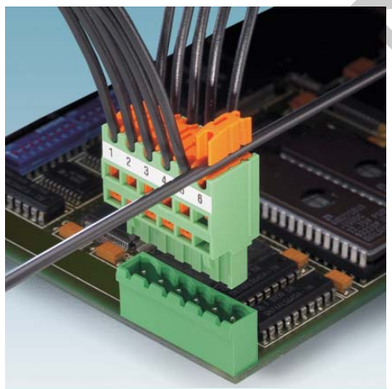
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
FKICS 2,5/ 2-STF	**1981597**	50
FKICS 2,5/ 3-STF	**1981607**	50
FKICS 2,5/ 4-STF	**1981610**	50
FKICS 2,5/ 5-STF	**1981623**	50
FKICS 2,5/ 6-STF	**1981636**	50
FKICS 2,5/ 7-STF	**1981649**	50
FKICS 2,5/ 8-STF	**1981652**	50
FKICS 2,5/ 9-STF	**1981665**	50
FKICS 2,5/10-STF	**1981678**	50
FKICS 2,5/11-STF	**1981681**	50
FKICS 2,5/12-STF	**1981694**	50
FKICS 2,5/13-STF	**1981704**	50
FKICS 2,5/14-STF	**1981717**	50
FKICS 2,5/15-STF	**1981720**	50
FKICS 2,5/16-STF	**1981733**	50
5.08 mm pitch, color: Green		
FKICS 2,5/ 2-STF-5,08	**1981898**	50
FKICS 2,5/ 3-STF-5,08	**1981908**	50
FKICS 2,5/ 4-STF-5,08	**1981911**	50
FKICS 2,5/ 5-STF-5,08	**1981924**	50
FKICS 2,5/ 6-STF-5,08	**1981937**	50
FKICS 2,5/ 7-STF-5,08	**1981940**	50
FKICS 2,5/ 8-STF-5,08	**1981953**	50
FKICS 2,5/ 9-STF-5,08	**1981966**	50
FKICS 2,5/10-STF-5,08	**1981979**	50
FKICS 2,5/11-STF-5,08	**1981982**	50
FKICS 2,5/12-STF-5,08	**1981995**	50
FKICS 2,5/13-STF-5,08	**1982004**	50
FKICS 2,5/14-STF-5,08	**1982017**	50
FKICS 2,5/15-STF-5,08	**1982020**	50
FKICS 2,5/16-STF-5,08	**1982033**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
FKICS 2,5/ 2-STD-5,08-RN	**1808721**	50
FKICS 2,5/ 3-STD-5,08-RN	**1808734**	50
FKICS 2,5/ 4-STD-5,08-RN	**1808747**	50
FKICS 2,5/ 5-STD-5,08-RN	**1808750**	50
FKICS 2,5/ 6-STD-5,08-RN	**1808763**	50
FKICS 2,5/ 7-STD-5,08-RN	**1808776**	50
FKICS 2,5/ 8-STD-5,08-RN	**1808789**	50
FKICS 2,5/ 9-STD-5,08-RN	**1808792**	50
FKICS 2,5/10-STD-5,08-RN	**1808802**	50
FKICS 2,5/11-STD-5,08-RN	**1808815**	50
FKICS 2,5/12-STD-5,08-RN	**1808828**	50
FKICS 2,5/13-STD-5,08-RN	**1808831**	50
FKICS 2,5/14-STD-5,08-RN	**1808844**	50
FKICS 2,5/15-STD-5,08-RN	**1808857**	50
FKICS 2,5/16-STD-5,08-RN	**1808860**	50

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Plug with displacement connection



- Reduced wiring time since pretreatment of the conductor is no longer necessary
- For stranded conductors with PVC or PE insulation
- Connection as per EN 60352-4
- Integrated 1.2 mm Ø test connection
- Bus plug version
- Higher numbers of positions up to 18-pos. can be found at: **www.phoenixcontact.net/products**
- User notes and recommendations for the insulation displacement technology can be found on page 22

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 259.

The maximum torque for the screw flange is 0.3 Nm.

¹) Please observe the derating curves. Derating curves of further combination options on request.

Accessories

For all types	Type	Page
	Keying profile **CP-MSTB Order No. 1734634**	38
	Screwdriver **SZF 0-0,4 x 2,5 Order No. 1204504**	
	Marker cards **SK 5,08/3,8**	798



Plug with displacement connection

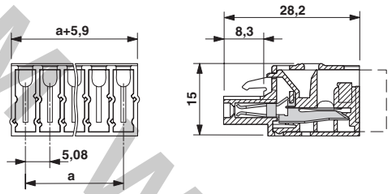


With screw flange



BUS connector for the looping through of conductors

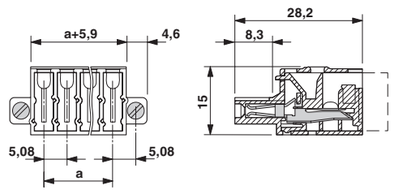
Dimensional drawing



Note derating curves

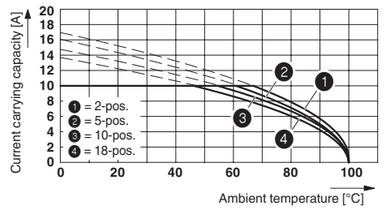
Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 1 mm²
Reduction factor = 0.8
Number of positions = see diagram

Dimensional drawing

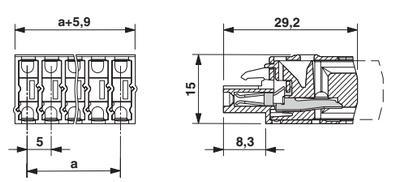


Representative derating curve

Type: QC 1/...-ST-5,08 with MSTBA 2,5/...-G-5,08



Dimensional drawing



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	10¹) / 1		
Rated insulation voltage for pollution degree 2	[V]	630		
Pitch	[mm]	5.08 / 5		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	- / 0.5 - 1 / 20 - 18		
Stranded with ferrules without plastic sleeve	[mm²]	-		
Stranded with ferrules with plastic sleeve	[mm²]	-		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	- / -		
Stranded with ferrules without plastic sleeve	[mm²]	-		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	-		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	500	630	1000
Rated surge voltage	[kV]	6	6	6
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	10	-	10
Connection capacity AWG	AWG	22 - 18	-	22 - 18
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		

No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00
5	20.00
6	25.00
2	5.08
3	10.16
4	15.24
5	20.32
6	25.40
7	30.48
8	35.56
9	40.64
10	45.72
11	50.80
12	55.88
13	60.96
14	66.04
15	71.12
16	76.20

Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
QC 1/ 2-ST-5,08	**1883255**	50
QC 1/ 3-ST-5,08	**1883268**	50
QC 1/ 4-ST-5,08	**1883271**	50
QC 1/ 5-ST-5,08	**1883284**	50
QC 1/ 6-ST-5,08	**1883297**	50
QC 1/ 7-ST-5,08	**1883307**	50
QC 1/ 8-ST-5,08	**1883310**	50
QC 1/ 9-ST-5,08	**1883323**	50
QC 1/10-ST-5,08	**1883336**	50
QC 1/11-ST-5,08	**1883349**	50
QC 1/12-ST-5,08	**1883705**	50
QC 1/13-ST-5,08	**1883815**	50
QC 1/14-ST-5,08	**1883828**	50
QC 1/15-ST-5,08	**1883831**	50
QC 1/16-ST-5,08	**1883844**	50

Ordering data

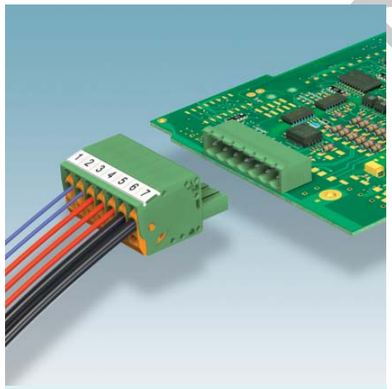
Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
QC 1/ 2-STF-5,08	**1883352**	50
QC 1/ 3-STF-5,08	**1883365**	50
QC 1/ 4-STF-5,08	**1883378**	50
QC 1/ 5-STF-5,08	**1883381**	50
QC 1/ 6-STF-5,08	**1883394**	50
QC 1/ 7-STF-5,08	**1883404**	50
QC 1/ 8-STF-5,08	**1883417**	50
QC 1/ 9-STF-5,08	**1883420**	50
QC 1/10-STF-5,08	**1883433**	50
QC 1/11-STF-5,08	**1883446**	50
QC 1/12-STF-5,08	**1883459**	50
QC 1/13-STF-5,08	**1883857**	50
QC 1/14-STF-5,08	**1883860**	50
QC 1/15-STF-5,08	**1883886**	50
QC 1/16-STF-5,08	**1883899**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
QC 1/ 2-ST-BUS	**1921670**	50
QC 1/ 3-ST-BUS	**1921683**	50
QC 1/ 4-ST-BUS	**1921696**	50
QC 1/ 5-ST-BUS	**1921706**	50
QC 1/ 6-ST-BUS	**1921719**	50

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Plug with displacement connection



- Easy operation through IDC displacement connection
- Plug-in direction parallel to the conductor axis
- Versions with and without a screw flange
- This connection method is suitable for cables with PVC and PE insulation
- User notes and recommendations for the insulation displacement technology can be found on page 22

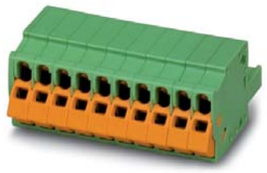
Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 259.

The maximum torque for the screw flange is 0.3 Nm.

[1]) Please observe the derating curves. Derating curves of further combination options on request.



With displacement connection

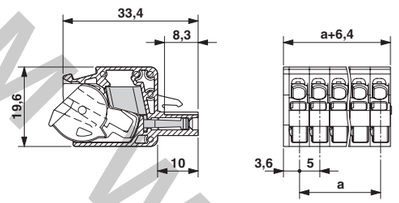


With screw flange

Accessories

For all types	Type	Page
	Keying profile **CP-MSTB** **Order No. 1734634**	38
	Marker cards **SK 5/3,8**	798
	Screwdriver **SZF 1-0,6 x 3,5** **Order No. 1204517**	
	Zack marker strip, flat **ZBF 5/...**	806

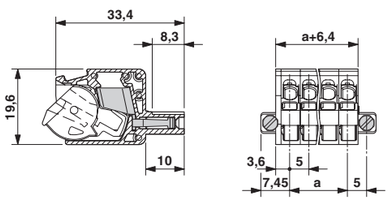
Dimensional drawing



Note derating curves

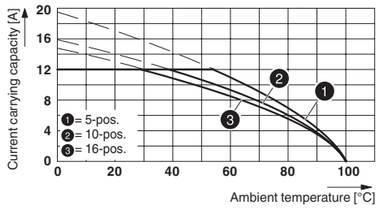
Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = AWG 16
Reduction factor = 0.8
Number of positions = see diagram

Dimensional drawing



Representative derating curve

Type: QC 1,5/...-ST-5,0 with MSTBVA 2,5 HC/...G



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	12[1]) / 1.5		
Rated insulation voltage for pollution degree 2	[V]	630		
Pitch	[mm]	5		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 1.5 / 0.2 - 1.5 / 24 - 16		
Stranded with ferrules without plastic sleeve	[mm²]	-		
Stranded with ferrules with plastic sleeve	[mm²]	-		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	- / -		
Stranded with ferrules without plastic sleeve	[mm²]	-		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	-		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	500	630	1000
Rated surge voltage	[kV]	6	6	6
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	10	-	10
Connection capacity AWG	AWG	24 - 16	24 - 16	24 - 16
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		

Ordering data

No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00
5	20.00
6	25.00
7	30.00
8	35.00
9	40.00
10	45.00
11	50.00
12	55.00
13	60.00
14	65.00
15	70.00
16	75.00

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
QC 1,5/ 2-ST	**1717961**	50
QC 1,5/ 3-ST	**1717974**	50
QC 1,5/ 4-ST	**1717987**	50
QC 1,5/ 5-ST	**1717990**	50
QC 1,5/ 6-ST	**1718009**	50
QC 1,5/ 7-ST	**1718012**	50
QC 1,5/ 8-ST	**1718025**	50
QC 1,5/ 9-ST	**1718038**	50
QC 1,5/10-ST	**1718041**	50
QC 1,5/11-ST	**1718054**	50
QC 1,5/12-ST	**1718067**	50
QC 1,5/13-ST	**1718070**	50
QC 1,5/14-ST	**1718083**	50
QC 1,5/15-ST	**1718096**	50
QC 1,5/16-ST	**1718106**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
QC 1,5/ 2-STF	**1718119**	50
QC 1,5/ 3-STF	**1718122**	50
QC 1,5/ 4-STF	**1718135**	50
QC 1,5/ 5-STF	**1718148**	50
QC 1,5/ 6-STF	**1718151**	50
QC 1,5/ 7-STF	**1718164**	50
QC 1,5/ 8-STF	**1718177**	50
QC 1,5/ 9-STF	**1718180**	50
QC 1,5/10-STF	**1718193**	50
QC 1,5/11-STF	**1718203**	50
QC 1,5/12-STF	**1718216**	50
QC 1,5/13-STF	**1718229**	50
QC 1,5/14-STF	**1718232**	50
QC 1,5/15-STF	**1718245**	50
QC 1,5/16-STF	**1718258**	50

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Connectors with crimp connection



- Flat design of the MSTBC 2,5 connector range
- Plug-in direction parallel to the conductor axis
- Versions with and without a screw flange or a self-locking flange
- Versions with and without a snap-lock option for pullout aid
- Compatible with MSTB 2,5 headers, IC 2,5 and ICC 2,5 connectors

MSTBC-MT 0,5-1,0
- for conductor cross sections of 0.5 to 1.0 mm² (AWG 20-18) and currents of up to 10 A

MSTBC-MT 1,5-2,5
- for conductor cross sections of 1.5 to 2.5 mm² (AWG 16-14) and currents of up to 12 A

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 259.

Larger numbers of positions up to 24-pos. and additional technical information can be found at **www.phoenixcontact.com**

The maximum torque for the screw flange is 0.3 Nm.

¹) Please observe the derating curves. Derating curves of further combination options on request.

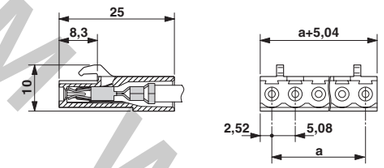
Accessories

For all types	Type	Page
	Keying profile **CP-MSTB** **Order No. 1734634**	38
	Marker cards **SK 5,08/3,8**	798
	Screwdriver **SZS 0,4 x 2,5** **Order No. 1205037**	
	Module female contact **MSTBC-MT...**	827
	Crimping pliers for 0.5 to 2.5 mm² **CRIMPFOX MT 2,5** **Order No. 1204038**	
Only for MSTBC 2,5/...STZ....		
	Pullout aid **STZ...MSTBC-5,08**	828



Flat connector for crimp contacts

Dimensional drawing



Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 2.5 mm²
Reduction factor = 0.8
Number of positions = see diagram

Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	12¹) / 2.5		
Rated insulation voltage for pollution degree 2	[V]	320		
Pitch	[mm]	5.08		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	- / 0.5 - 2.5 / 20 - 14		
Stranded with ferrules without plastic sleeve	[mm²]	-		
Stranded with ferrules with plastic sleeve	[mm²]	-		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	- / -		
Stranded with ferrules without plastic sleeve	[mm²]	-		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	-		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	320	320	630
Rated surge voltage	[kV]	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	250	-	300
Nominal current	[A]	10	-	10
Connection capacity AWG	AWG	20 - 14	-	20 - 14
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		

No. of pos.	Dim. a [mm]
2	5.08
3	10.16
4	15.24
5	20.32
6	25.40
7	30.48
8	35.56
9	40.64
10	45.72
11	50.80
12	55.88
13	60.96
14	66.04
15	71.12
16	76.20

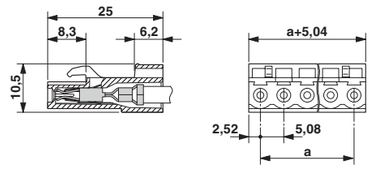
Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MSTBC 2,5/ 2-ST-5,08	**1808816**	50
MSTBC 2,5/ 3-ST-5,08	**1808829**	50
MSTBC 2,5/ 4-ST-5,08	**1808832**	50
MSTBC 2,5/ 5-ST-5,08	**1808845**	50
MSTBC 2,5/ 6-ST-5,08	**1808858**	50
MSTBC 2,5/ 7-ST-5,08	**1808861**	50
MSTBC 2,5/ 8-ST-5,08	**1808874**	50
MSTBC 2,5/ 9-ST-5,08	**1808887**	50
MSTBC 2,5/10-ST-5,08	**1808890**	50
MSTBC 2,5/11-ST-5,08	**1808900**	50
MSTBC 2,5/12-ST-5,08	**1808913**	50
MSTBC 2,5/13-ST-5,08	**1808926**	50
MSTBC 2,5/14-ST-5,08	**1808939**	50
MSTBC 2,5/15-ST-5,08	**1808942**	50
MSTBC 2,5/16-ST-5,08	**1808955**	50



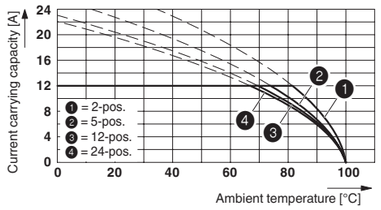
With snap-lock option for pull-out aid

Dimensional drawing



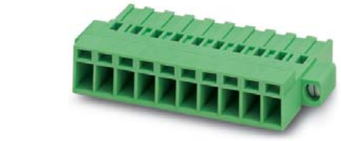
Representative derating curve

Type: MSTBC 2,5/...-ST-5,08 with MSTBA 2,5/...-G-5,08; contact: MSTBC-MT 1,5 - 2,5



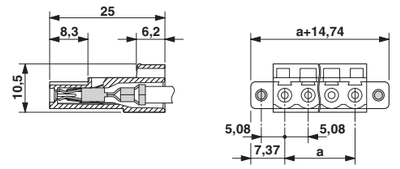
Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MSTBC 2,5/ 2-STZ-5,08	**1809501**	50
MSTBC 2,5/ 3-STZ-5,08	**1809514**	50
MSTBC 2,5/ 4-STZ-5,08	**1809527**	50
MSTBC 2,5/ 5-STZ-5,08	**1809530**	50
MSTBC 2,5/ 6-STZ-5,08	**1809543**	50
MSTBC 2,5/ 7-STZ-5,08	**1809556**	50
MSTBC 2,5/ 8-STZ-5,08	**1809569**	50
MSTBC 2,5/ 9-STZ-5,08	**1809572**	50
MSTBC 2,5/10-STZ-5,08	**1809585**	50
MSTBC 2,5/11-STZ-5,08	**1809598**	50
MSTBC 2,5/12-STZ-5,08	**1809608**	50
MSTBC 2,5/13-STZ-5,08	**1809611**	50
MSTBC 2,5/14-STZ-5,08	**1809624**	50
MSTBC 2,5/15-STZ-5,08	**1809637**	50
MSTBC 2,5/16-STZ-5,08	**1809640**	50



With screw flange and snap-lock option for pull-out aid

Dimensional drawing



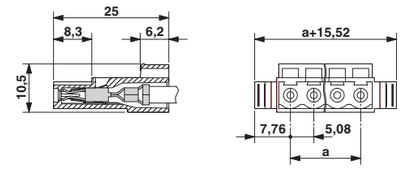
Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MSTBC 2,5/ 2-STZF-5,08	**1809734**	50
MSTBC 2,5/ 3-STZF-5,08	**1809747**	50
MSTBC 2,5/ 4-STZF-5,08	**1809750**	50
MSTBC 2,5/ 5-STZF-5,08	**1809763**	50
MSTBC 2,5/ 6-STZF-5,08	**1809776**	50
MSTBC 2,5/ 7-STZF-5,08	**1809789**	50
MSTBC 2,5/ 8-STZF-5,08	**1809792**	50
MSTBC 2,5/ 9-STZF-5,08	**1809802**	50
MSTBC 2,5/10-STZF-5,08	**1809815**	50
MSTBC 2,5/11-STZF-5,08	**1809828**	50
MSTBC 2,5/12-STZF-5,08	**1809831**	50
MSTBC 2,5/13-STZF-5,08	**1809844**	50
MSTBC 2,5/14-STZF-5,08	**1809857**	50
MSTBC 2,5/15-STZF-5,08	**1809860**	50
MSTBC 2,5/16-STZF-5,08	**1809873**	50



With self-locking flange and snap-lock option for pull-out aid

Dimensional drawing

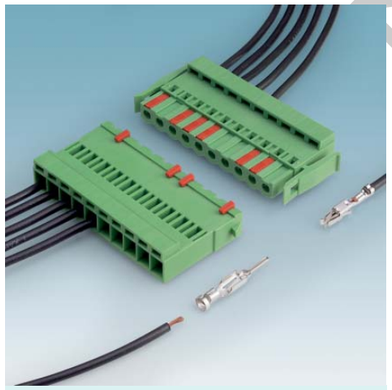


Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MSTBC 2,5/ 2-STZ-5,08-R	**1809048**	50
MSTBC 2,5/ 3-STZ-5,08-R	**1809051**	50
MSTBC 2,5/ 4-STZ-5,08-R	**1809064**	50
MSTBC 2,5/ 5-STZ-5,08-R	**1809077**	50
MSTBC 2,5/ 6-STZ-5,08-R	**1809080**	50
MSTBC 2,5/ 7-STZ-5,08-R	**1809093**	50
MSTBC 2,5/ 8-STZ-5,08-R	**1809103**	50
MSTBC 2,5/ 9-STZ-5,08-R	**1809116**	50
MSTBC 2,5/10-STZ-5,08-R	**1809129**	50
MSTBC 2,5/11-STZ-5,08-R	**1809132**	50
MSTBC 2,5/12-STZ-5,08-R	**1809145**	50
MSTBC 2,5/13-STZ-5,08-R	**1809158**	50
MSTBC 2,5/14-STZ-5,08-R	**1809161**	50
MSTBC 2,5/15-STZ-5,08-R	**1809174**	50
MSTBC 2,5/16-STZ-5,08-R	**1809187**	50

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Inverted connectors with a crimp connection



- Connectors with inverted contact system (male contact)
- With snap-lock option for pullout aid
- ICC 2,5/…-STZ-5,08 with engagement noses for MSTBC 2,5/...-ST-... and for snapping on with MSTBC 2,5/…-STZ-5,08-R
- ICC 2,5/…-STZF-5,08 are, among other things, compatible with the IC 2,5/…-GF-5,08 inverted base strips

ICC-MT 0,5-1,0
- for conductor cross sections of 0.5 to 1.0 mm² (AWG 20-18) and currents of up to 10 A

ICC-MT 1,5-2,5
- for conductor cross sections of 1.5 to 2.5 mm² (AWG 16-14) and currents of up to 12 A

Notes:
In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
Larger numbers of positions up to 24-pos. and additional technical information can be found at **www.phoenixcontact.com**
COMBICON select You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 259.
The maximum torque for the screw flange is 0.3 Nm.
1) Please observe the derating curves. Derating curves of further combination options on request.

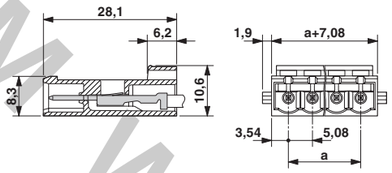
Accessories

For all types	Type	Page
	Keying section **CR-MSTB** **Order No.** **1734401**	38
	Marker cards **SK 5,08/3,8**	798
	Screwdriver **SZS 0,4 x 2,5** **Order No.** **1205037**	
	Module male contact **ICC-MT...**	827
	Crimping pliers for 0.5 to 2.5 mm² **CRIMPFOX MT 2,5** **Order No.** **1204038**	
	Pullout aid **STZ...MSTBC-5,08**	828



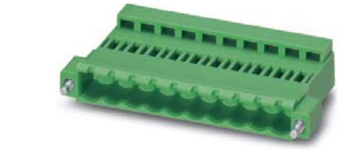
Featuring engagement noses for locking with connectors with a self-locking flange

Dimensional drawing



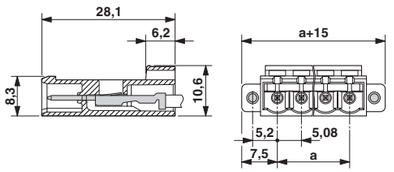
Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 2.5 mm²
Reduction factor = 0.8
Number of positions = see diagram



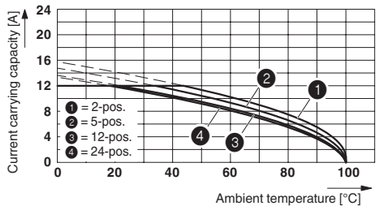
With screw flange, for screw connection using inverted headers

Dimensional drawing



Representative derating curve

Type: ICC 2,5/...-ST-5,08 with IC 2,5/...-G-5,08



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	12¹) / 2.5		
Rated insulation voltage for pollution degree 2	[V]	320		
Pitch	[mm]	5.08		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	- / 0.5 - 2.5 / 20 - 14		
Stranded with ferrules without plastic sleeve	[mm²]	-		
Stranded with ferrules with plastic sleeve	[mm²]	-		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	- / -		
Stranded with ferrules without plastic sleeve	[mm²]	-		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	-		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250	320	630
Rated surge voltage	[kV]	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	250	-	300
Nominal current	[A]	10	-	10
Connection capacity AWG	AWG	20 - 14	-	20 - 14
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		

No. of pos.	Dim. a [mm]
2	5.08
3	10.16
4	15.24
5	20.32
6	25.40
7	30.48
8	35.56
9	40.64
10	45.72
11	50.80
12	55.88
13	60.96
14	66.04
15	71.12
16	76.20

Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
ICC 2,5/ 2-STZ-5,08	**1823846**	50
ICC 2,5/ 3-STZ-5,08	**1823859**	50
ICC 2,5/ 4-STZ-5,08	**1823862**	50
ICC 2,5/ 5-STZ-5,08	**1823875**	50
ICC 2,5/ 6-STZ-5,08	**1823888**	50
ICC 2,5/ 7-STZ-5,08	**1823891**	50
ICC 2,5/ 8-STZ-5,08	**1823901**	50
ICC 2,5/ 9-STZ-5,08	**1823914**	50
ICC 2,5/10-STZ-5,08	**1823927**	50
ICC 2,5/11-STZ-5,08	**1823930**	50
ICC 2,5/12-STZ-5,08	**1823943**	50
ICC 2,5/13-STZ-5,08	**1823956**	50
ICC 2,5/14-STZ-5,08	**1823969**	50
ICC 2,5/15-STZ-5,08	**1823972**	50
ICC 2,5/16-STZ-5,08	**1823985**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
ICC 2,5/ 2-STZF-5,08	**1823383**	50
ICC 2,5/ 3-STZF-5,08	**1823396**	50
ICC 2,5/ 4-STZF-5,08	**1823406**	50
ICC 2,5/ 5-STZF-5,08	**1823419**	50
ICC 2,5/ 6-STZF-5,08	**1823422**	50
ICC 2,5/ 7-STZF-5,08	**1823435**	50
ICC 2,5/ 8-STZF-5,08	**1823448**	50
ICC 2,5/ 9-STZF-5,08	**1823451**	50
ICC 2,5/10-STZF-5,08	**1823464**	50
ICC 2,5/11-STZF-5,08	**1823477**	50
ICC 2,5/12-STZF-5,08	**1823480**	50
ICC 2,5/13-STZF-5,08	**1823493**	50
ICC 2,5/14-STZF-5,08	**1823503**	50
ICC 2,5/15-STZF-5,08	**1823516**	50
ICC 2,5/16-STZF-5,08	**1823529**	50

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Single-level header for reflow processes



- Application in SMT reflow processes
- Delivery form: Box packaging; bulk for small series
- 2.6 mm standard pin length, other pin lengths available on request
- Versions with engagement noses for locking plugs with self-locking flanges
- Versions with a lock & release mechanism and threaded flange can either be used with connectors with lock & release or with a screw flange
- You can find user notes and recommendations for THR procedure on page 27

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 259.

CR-MSTB may only be used after reflow soldering. CR-MSTB NAT HT may also be used prior to reflow soldering.

Headers can also be used in combination with MSTB(T) 2,5 HC, MVSTB(R)(W) 2,5 HC, and FKC 2,5 HC plugs

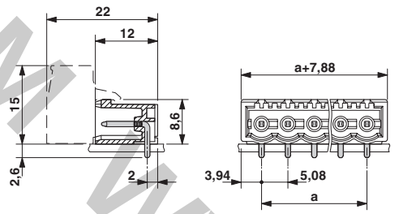
Accessories

For all types	Type	Page
	Keying section **CR-MSTB Order No. 1734401**	38
	Keying section **CR-MSTB NAT HT Order No. 1954362**	38
	Marker cards **SK 5,08/3,8**	798

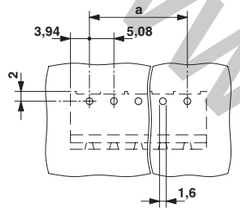


With side panels, plug-in direction parallel to the PCB

Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current	[A]	12		
Rated insulation voltage for pollution degree 2	[V]	320		
Pitch	[mm]	5.08		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250	320	400
Rated surge voltage	[kV]	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	250	-	300
Nominal current	[A]	10	-	10
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		LCP / IIIa		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.6 / 1 x 1 mm		

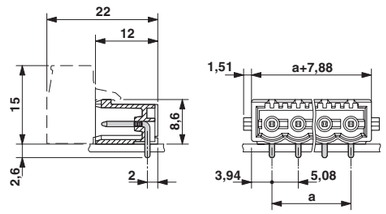
Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		Headers, 5.08 mm pitch, color: Black		
2	5.08	**CCA 2,5/ 2-G-5,08 P26THR**	**1954919**	50
3	10.16	**CCA 2,5/ 3-G-5,08 P26THR**	**1954922**	50
4	15.24	**CCA 2,5/ 4-G-5,08 P26THR**	**1954935**	50
5	20.32	**CCA 2,5/ 5-G-5,08 P26THR**	**1954948**	50
6	25.40	**CCA 2,5/ 6-G-5,08 P26THR**	**1954951**	50
7	30.48	**CCA 2,5/ 7-G-5,08 P26THR**	**1954977**	50
8	35.56	**CCA 2,5/ 8-G-5,08 P26THR**	**1954980**	50
9	40.64	**CCA 2,5/ 9-G-5,08 P26THR**	**1954993**	50
10	45.72	**CCA 2,5/10-G-5,08 P26THR**	**1955002**	50
11	50.80	**CCA 2,5/11-G-5,08 P26THR**	**1955015**	50
12	55.88	**CCA 2,5/12-G-5,08 P26THR**	**1955028**	50

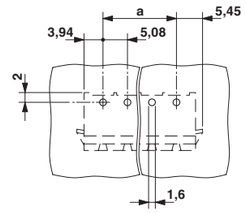


With engagement noses, plug-in direction parallel to the PCB

Dimensional drawing



Drilling diagram



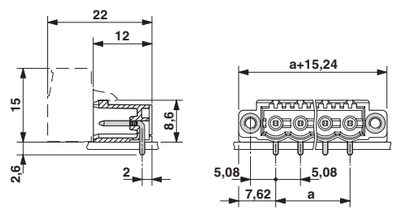
Ordering data

Type	Order No.	Pcs. / Pkt.
Headers, 5.08 mm pitch, color: Black		
CCA 2,5/ 2-G-5,08 RNP26THR	**1955167**	50
CCA 2,5/ 3-G-5,08 RNP26THR	**1955170**	50
CCA 2,5/ 4-G-5,08 RNP26THR	**1955183**	50
CCA 2,5/ 5-G-5,08 RNP26THR	**1955196**	50
CCA 2,5/ 6-G-5,08 RNP26THR	**1955206**	50
CCA 2,5/ 7-G-5,08 RNP26THR	**1955219**	50
CCA 2,5/ 8-G-5,08 RNP26THR	**1955222**	50
CCA 2,5/ 9-G-5,08 RNP26THR	**1955235**	50
CCA 2,5/10-G-5,08 RNP26THR	**1955248**	50
CCA 2,5/11-G-5,08 RNP26THR	**1955251**	50
CCA 2,5/12-G-5,08 RNP26THR	**1955264**	50

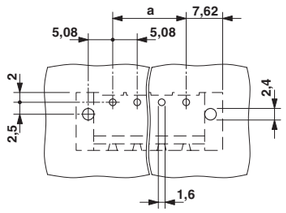


With threaded flange, plug-in direction parallel to the PCB

Dimensional drawing



Drilling diagram



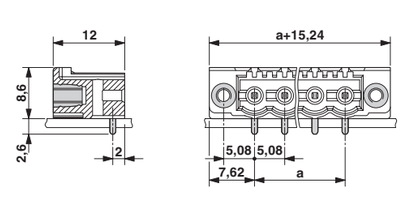
Ordering data

Type	Order No.	Pcs. / Pkt.
Headers, 5.08 mm pitch, color: Black		
CC 2,5/ 2-GF-5,08 P26THR	**1954692**	50
CC 2,5/ 3-GF-5,08 P26THR	**1954702**	50
CC 2,5/ 4-GF-5,08 P26THR	**1954715**	50
CC 2,5/ 5-GF-5,08 P26THR	**1954728**	50
CC 2,5/ 6-GF-5,08 P26THR	**1954731**	50
CC 2,5/ 7-GF-5,08 P26THR	**1954744**	50
CC 2,5/ 8-GF-5,08 P26THR	**1954757**	50
CC 2,5/ 9-GF-5,08 P26THR	**1954760**	50
CC 2,5/10-GF-5,08 P26THR	**1954773**	50
CC 2,5/11-GF-5,08 P26THR	**1954786**	50
CC 2,5/12-GF-5,08 P26THR	**1954799**	50

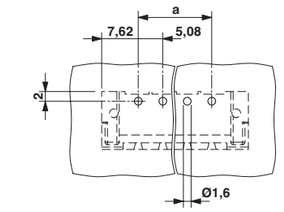


With lock & release mechanism and threaded flange, plug-in direction parallel to the PCB

Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
Headers, 5.08 mm pitch, color: Black		
CC 2,5/ 2-GF-5,08-LR P26THR	**1792627**	50
CC 2,5/ 3-GF-5,08-LR P26THR	**1792630**	50
CC 2,5/ 4-GF-5,08-LR P26THR	**1792643**	50
CC 2,5/ 5-GF-5,08-LR P26THR	**1792656**	50
CC 2,5/ 6-GF-5,08-LR P26THR	**1792669**	50
CC 2,5/ 7-GF-5,08-LR P26THR	**1792672**	50
CC 2,5/ 8-GF-5,08-LR P26THR	**1792685**	50
CC 2,5/ 9-GF-5,08-LR P26THR	**1792698**	50
CC 2,5/10-GF-5,08-LR P26THR	**1792708**	50
CC 2,5/11-GF-5,08-LR P26THR	**1792711**	50
CC 2,5/12-GF-5,08-LR P26THR	**1792724**	50

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Single-level header for reflow processes



- Application in SMT reflow processes
- Delivery form: Box packaging; bulk for small series
- 2.6 mm standard pin length, other pin lengths available on request
- Versions with engagement noses for locking plugs with self-locking flanges
- Versions with a lock & release mechanism and threaded flange can either be used with connectors with lock & release or with a screw flange
- You can find user notes and recommendations for THR procedure on page 27

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 259.

CR-MSTB may only be used after reflow soldering. CR-MSTB NAT HT may also be used prior to reflow soldering.

Headers can also be used in combination with MSTB(T) 2,5 HC, MVSTB(R)(W) 2,5 HC, and FKC 2,5 HC plugs

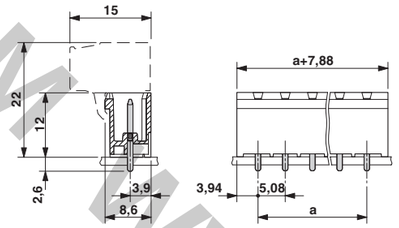
Accessories

For all types	Type	Page
	Keying section **CR-MSTB Order No. 1734401**	38
	Keying section **CR-MSTB NAT HT Order No. 1954362**	38
	Marker cards **SK 5,08/3,8**	798



With side panels, plug-in direction vertical to the PCB

Dimensional drawing



Drilling diagram

Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current	[A]	12		
Rated insulation voltage for pollution degree 2	[V]	320		
Pitch	[mm]	5.08		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250	320	400
Rated surge voltage	[kV]	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	250	-	300
Nominal current	[A]	10	-	10
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		LCP / IIIa		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.6 / 1 x 1 mm		

No. of pos.	Dim. a [mm]
2	5.08
3	10.16
4	15.24
5	20.32
6	25.40
7	30.48
8	35.56
9	40.64
10	45.72
11	50.80
12	55.88

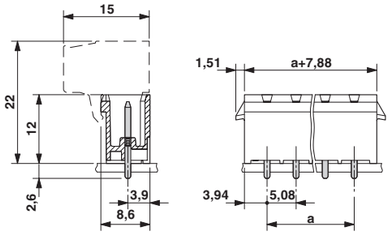
Ordering data

Type	Order No.	Pcs. / Pkt.
Headers, 5.08 mm pitch, color: Black		
CCVA 2,5/ 2-G-5,08 P26THR	**1955853**	50
CCVA 2,5/ 3-G-5,08 P26THR	**1955866**	50
CCVA 2,5/ 4-G-5,08 P26THR	**1955879**	50
CCVA 2,5/ 5-G-5,08 P26THR	**1955882**	50
CCVA 2,5/ 6-G-5,08 P26THR	**1955895**	50
CCVA 2,5/ 7-G-5,08 P26THR	**1955905**	50
CCVA 2,5/ 8-G-5,08 P26THR	**1955918**	50
CCVA 2,5/ 9-G-5,08 P26THR	**1955921**	50
CCVA 2,5/10-G-5,08 P26THR	**1955934**	50
CCVA 2,5/11-G-5,08 P26THR	**1955947**	50
CCVA 2,5/12-G-5,08 P26THR	**1955950**	50



With engagement noses, plug-in direction vertical to the PCB

Dimensional drawing



Drilling diagram

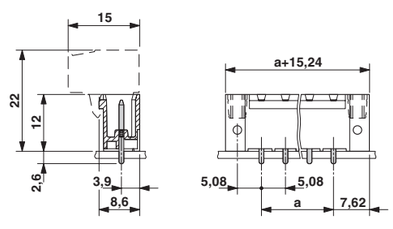
Ordering data

Type	Order No.	Pcs. / Pkt.
Headers, 5.08 mm pitch, color: Black		
CCVA 2,5/ 2-G-5,08 RNP26THR	**1956085**	50
CCVA 2,5/ 3-G-5,08 RNP26THR	**1956098**	50
CCVA 2,5/ 4-G-5,08 RNP26THR	**1956108**	50
CCVA 2,5/ 5-G-5,08 RNP26THR	**1956111**	50
CCVA 2,5/ 6-G-5,08 RNP26THR	**1956124**	50
CCVA 2,5/ 7-G-5,08 RNP26THR	**1956137**	50
CCVA 2,5/ 8-G-5,08 RNP26THR	**1956140**	50
CCVA 2,5/ 9-G-5,08 RNP26THR	**1956153**	50
CCVA 2,5/10-G-5,08 RNP26THR	**1956166**	50
CCVA 2,5/11-G-5,08 RNP26THR	**1956179**	50
CCVA 2,5/12-G-5,08 RNP26THR	**1956182**	50



With threaded flange, plug-in direction vertical to the PCB

Dimensional drawing



Drilling diagram

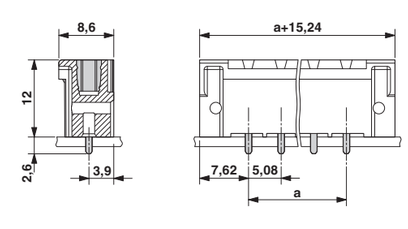
Ordering data

Type	Order No.	Pcs. / Pkt.
Headers, 5.08 mm pitch, color: Black		
CCV 2,5/ 2-GF-5,08 P26THR	**1955633**	50
CCV 2,5/ 3-GF-5,08 P26THR	**1955646**	50
CCV 2,5/ 4-GF-5,08 P26THR	**1955659**	50
CCV 2,5/ 5-GF-5,08 P26THR	**1955662**	50
CCV 2,5/ 6-GF-5,08 P26THR	**1955675**	50
CCV 2,5/ 7-GF-5,08 P26THR	**1955688**	50
CCV 2,5/ 8-GF-5,08 P26THR	**1955691**	50
CCV 2,5/ 9-GF-5,08 P26THR	**1955701**	50
CCV 2,5/10-GF-5,08 P26THR	**1955714**	50
CCV 2,5/11-GF-5,08 P26THR	**1955727**	50
CCV 2,5/12-GF-5,08 P26THR	**1955730**	50



With lock & release mechanism and threaded flange, plug-in direction vertical to the PCB

Dimensional drawing



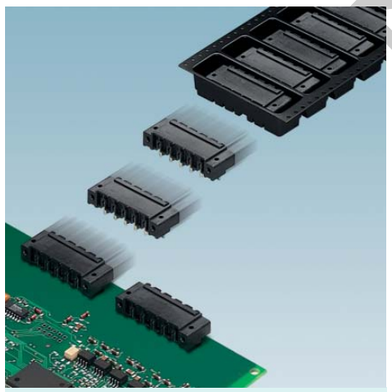
Drilling diagram

Ordering data

Type	Order No.	Pcs. / Pkt.
Headers, 5.08 mm pitch, color: Black		
CCV 2,5/ 2-GF-5,08-LR P26THR	**1792737**	50
CCV 2,5/ 3-GF-5,08-LR P26THR	**1792740**	50
CCV 2,5/ 4-GF-5,08-LR P26THR	**1792753**	50
CCV 2,5/ 5-GF-5,08-LR P26THR	**1792766**	50
CCV 2,5/ 6-GF-5,08-LR P26THR	**1792779**	50
CCV 2,5/ 7-GF-5,08-LR P26THR	**1792782**	50
CCV 2,5/ 8-GF-5,08-LR P26THR	**1792795**	50
CCV 2,5/ 9-GF-5,08-LR P26THR	**1792805**	50
CCV 2,5/10-GF-5,08-LR P26THR	**1792818**	50
CCV 2,5/11-GF-5,08-LR P26THR	**1792821**	50
CCV 2,5/12-GF-5,08-LR P26THR	**1792834**	50

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Single-level header for reflow processes



- Application in SMT reflow processes
- Delivery form: taped packaging in accordance with IEC 60286-3 for automatic assembly; coil diameter 330 mm; design width of the tape adjusted as per the corresponding number of positions of the product
- Versions with a threaded flange
- Versions with engagement noses for locking plugs with self-locking flanges
- 2.6 mm standard pin length, other pin lengths available on request
- You can find user notes and recommendations for THR procedure on page 27

Notes:

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 259.

Pick and place pads for taped THR articles usually protrude beyond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of tape reels and place pads can be found online at **www.phoenixcontact.net/products**.

CR-MSTB may only be used after reflow soldering. CR-MSTB NAT HT may also be used prior to reflow soldering.

Headers can also be used in combination with MSTB(T) 2,5 HC, MVSTB(R)(W) 2,5 HC, and FKC 2,5 HC plugs

Accessories

For all types	Type	Page
	Keying section **CR-MSTB Order No. 1734401**	38
	Keying section **CR-MSTB NAT HT Order No. 1954362**	38
	Marker cards **SK 5,08/3,8**	798



Taped headers with side panels, plug-in direction parallel to the PCB

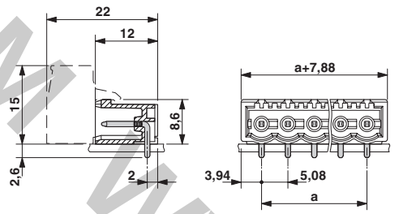


Taped headers with engagement noses, plug-in direction parallel to the PCB

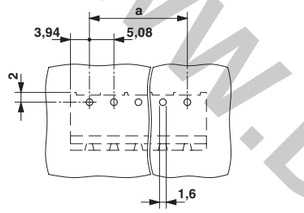


Taped headers with threaded flange, plug-in direction parallel to the PCB

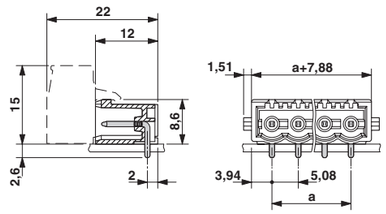
Dimensional drawing



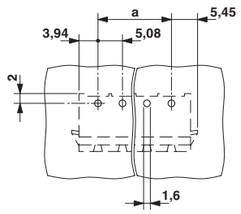
Drawing diagram



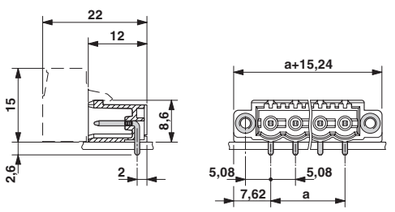
Dimensional drawing



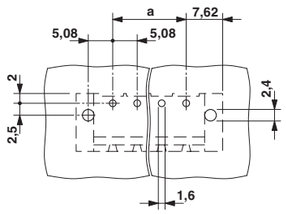
Drawing diagram



Dimensional drawing



Drawing diagram



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current	[A]	12		
Rated insulation voltage for pollution degree 2	[V]	320		
Pitch	[mm]	5.08		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250	320	400
Rated surge voltage	[kV]	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	250	-	300
Nominal current	[A]	10	-	10
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		LCP / IIIa		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.6 / 1 x 1 mm		

Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		Headers, 5.08 mm pitch, color: Black		
2	5.08	**CCA 2,5/ 2-G-5,08 P26THRR32**	**1955031**	330
3	10.16	**CCA 2,5/ 3-G-5,08 P26THRR32**	**1955044**	330
4	15.24	**CCA 2,5/ 4-G-5,08 P26THRR56**	**1955057**	330
5	20.32	**CCA 2,5/ 5-G-5,08 P26THRR56**	**1955060**	330
6	25.40	**CCA 2,5/ 6-G-5,08 P26THRR56**	**1955073**	330
7	30.48	**CCA 2,5/ 7-G-5,08 P26THRR56**	**1955086**	330
8	35.56	**CCA 2,5/ 8-G-5,08 P26THRR56**	**1955099**	330
9	40.64	**CCA 2,5/ 9-G-5,08 P26THRR88**	**1955109**	240
10	45.72	**CCA 2,5/10-G-5,08 P26THRR88**	**1955112**	240
11	50.80	**CCA 2,5/11-G-5,08 P26THRR88**	**1955125**	240
12	55.88	**CCA 2,5/12-G-5,08 P26THRR88**	**1955138**	240

Ordering data

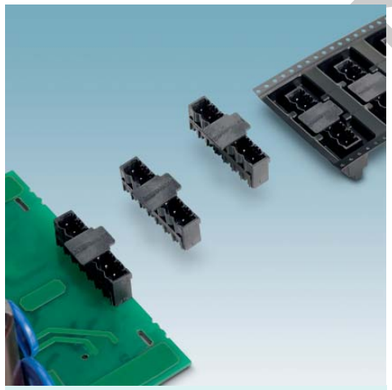
Type	Order No.	Pcs. / Pkt.
Headers, 5.08 mm pitch, color: Black		
CCA 2,5/ 2-G-5,08 RNP26THRR32	**1955277**	330
CCA 2,5/ 3-G-5,08 RNP26THRR32	**1955280**	330
CCA 2,5/ 4-G-5,08 RNP26THRR56	**1955293**	330
CCA 2,5/ 5-G-5,08 RNP26THRR56	**1955303**	330
CCA 2,5/ 6-G-5,08 RNP26THRR56	**1955316**	330
CCA 2,5/ 7-G-5,08 RNP26THRR56	**1955329**	330
CCA 2,5/ 8-G-5,08 RNP26THRR88	**1955332**	240
CCA 2,5/ 9-G-5,08 RNP26THRR88	**1955345**	240
CCA 2,5/10-G-5,08 RNP26THRR88	**1955358**	240
CCA 2,5/11-G-5,08 RNP26THRR88	**1955361**	240
CCA 2,5/12-G-5,08 RNP26THRR88	**1955374**	240

Ordering data

Type	Order No.	Pcs. / Pkt.
Headers, 5.08 mm pitch, color: Black		
CC 2,5/ 2-GF-5,08 P26THRR32	**1954809**	330
CC 2,5/ 3-GF-5,08 P26THRR56	**1954812**	330
CC 2,5/ 4-GF-5,08 P26THRR56	**1954825**	330
CC 2,5/ 5-GF-5,08 P26THRR56	**1954838**	330
CC 2,5/ 6-GF-5,08 P26THRR56	**1954841**	330
CC 2,5/ 7-GF-5,08 P26THRR88	**1954854**	240
CC 2,5/ 8-GF-5,08 P26THRR88	**1954867**	240
CC 2,5/ 9-GF-5,08 P26THRR88	**1954870**	240
CC 2,5/10-GF-5,08 P26THRR88	**1954883**	240
CC 2,5/11-GF-5,08 P26THRR88	**1954896**	240
CC 2,5/12-GF-5,08 P26THRR88	**1954906**	240

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Single-level header for reflow processes



- Application in SMT reflow processes
- Delivery form: taped packaging in accordance with IEC 60286-3 for automatic assembly; coil diameter 330 mm; design width of the tape adjusted as per the corresponding number of positions of the product
- Versions with a threaded flange
- Versions with engagement noses for locking plugs with self-locking flanges
- 2.6 mm standard pin length, other pin lengths available on request
- You can find user notes and recommendations for THR procedure on page 27

Notes:

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 259.

Pick and place pads for taped THR articles usually protrude beyond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of tape reels and place pads can be found online at **www.phoenixcontact.net/products**.

CR-MSTB may only be used after reflow soldering. CR-MSTB NAT HT may also be used prior to reflow soldering.

Headers can also be used in combination with MSTB(T) 2,5 HC, MVSTB(R)(W) 2,5 HC, and FKC 2,5 HC plugs.

Accessories

For all types	Type	Page
	Keying section **CR-MSTB Order No. 1734401**	38
	Keying section **CR-MSTB NAT HT Order No. 1954362**	38
	Marker cards **SK 5,08/3,8**	798



Taped headers with side panels, plug-in direction vertical to the PCB

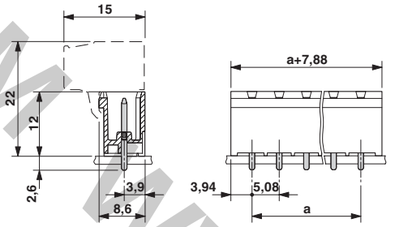


Taped headers with engagement noses, plug-in direction vertical to the PCB

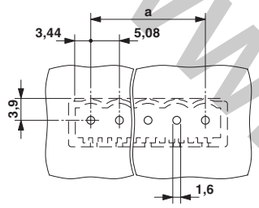


Taped headers with threaded flange, plug-in direction vertical to the PCB

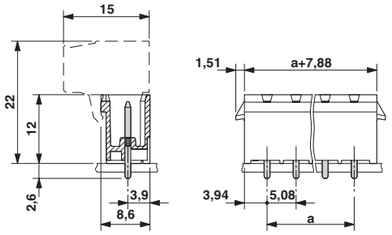
Dimensional drawing



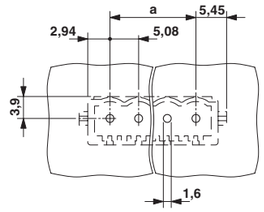
Drilling diagram



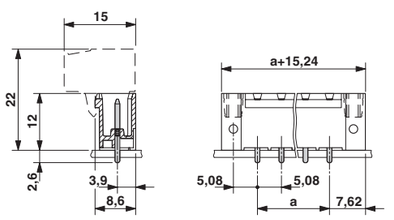
Dimensional drawing



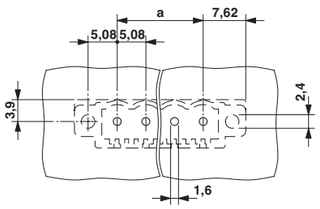
Drilling diagram



Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current	[A]	12		
Rated insulation voltage for pollution degree 2	[V]	320		
Pitch	[mm]	5.08		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250	320	400
Rated surge voltage	[kV]	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	250	-	300
Nominal current	[A]	10	-	10
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		LCP / IIIa		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.6 / 1 x 1 mm		

No. of pos.	Dim. a [mm]
2	5.08
3	10.16
4	15.24
5	20.32
6	25.40
7	30.48
8	35.56
9	40.64
10	45.72
11	50.80
12	55.88

Ordering data

Type	Order No.	Pcs. / Pkt.
Headers, 5.08 mm pitch, color: Black		
CCVA 2,5/ 2-G-5,08 P26THRR32	**1955963**	140
CCVA 2,5/ 3-G-5,08 P26THRR32	**1955976**	140
CCVA 2,5/ 4-G-5,08 P26THRR56	**1955989**	140
CCVA 2,5/ 5-G-5,08 P26THRR56	**1955992**	140
CCVA 2,5/ 6-G-5,08 P26THRR56	**1956001**	140
CCVA 2,5/ 7-G-5,08 P26THRR56	**1956014**	140
CCVA 2,5/ 8-G-5,08 P26THRR56	**1956027**	140
CCVA 2,5/ 9-G-5,08 P26THRR88	**1956030**	140
CCVA 2,5/10-G-5,08 P26THRR88	**1956043**	140
CCVA 2,5/11-G-5,08 P26THRR88	**1956056**	140
CCVA 2,5/12-G-5,08 P26THRR88	**1956069**	140

Ordering data

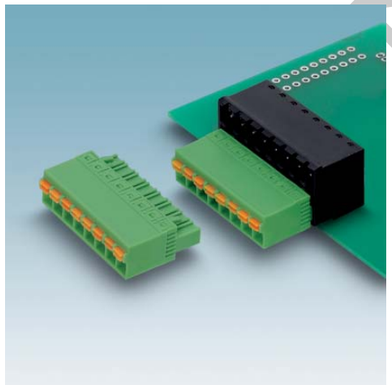
Type	Order No.	Pcs. / Pkt.
Headers, 5.08 mm pitch, color: Black		
CCVA 2,5/ 2-G-5,08RNP26THRR32	**1956195**	140
CCVA 2,5/ 3-G-5,08RNP26THRR32	**1956205**	140
CCVA 2,5/ 4-G-5,08RNP26THRR56	**1956218**	140
CCVA 2,5/ 5-G-5,08RNP26THRR56	**1956221**	140
CCVA 2,5/ 6-G-5,08RNP26THRR56	**1956234**	140
CCVA 2,5/ 7-G-5,08RNP26THRR56	**1956247**	140
CCVA 2,5/ 8-G-5,08RNP26THRR88	**1956250**	140
CCVA 2,5/ 9-G-5,08RNP26THRR88	**1956263**	140
CCVA 2,5/10-G-5,08RNP26THRR88	**1956276**	140
CCVA 2,5/11-G-5,08RNP26THRR88	**1956289**	140
CCVA 2,5/12-G-5,08RNP26THRR88	**1956292**	140

Ordering data

Type	Order No.	Pcs. / Pkt.
Headers, 5.08 mm pitch, color: Black		
CCV 2,5/ 2-GF-5,08 P26THRR32	**1955743**	140
CCV 2,5/ 3-GF-5,08 P26THRR56	**1955756**	140
CCV 2,5/ 4-GF-5,08 P26THRR56	**1955769**	140
CCV 2,5/ 5-GF-5,08 P26THRR56	**1955772**	140
CCV 2,5/ 6-GF-5,08 P26THRR56	**1955785**	140
CCV 2,5/ 7-GF-5,08 P26THRR88	**1955798**	140
CCV 2,5/ 8-GF-5,08 P26THRR88	**1955808**	140
CCV 2,5/ 9-GF-5,08 P26THRR88	**1955811**	140
CCV 2,5/10-GF-5,08 P26THRR88	**1955824**	140
CCV 2,5/11-GF-5,08 P26THRR88	**1955837**	140
CCV 2,5/12-GF-5,08 P26THRR88	**1955840**	140

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Double-level header for reflow processes



- Application in SMT reflow processes
- Double-level base strip without offset levels
- Less space requirements on the PCB
- Plug-in direction parallel to the PCB
- Versions with and without a threaded flange
- Can be combined particularly with the FKCN 2,5 compact spring-cage plug component
- 2.6 mm standard pin length
- Higher numbers of positions up to 18-pos. can be found at: **www.phoenixcontact.net/products**

Notes:
In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
COMBICON select You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 259.
Application notes and suggestions for the THR process can be found on page 27.
CR-MSTB may only be used after reflow soldering. CR-MSTB NAT HT may also be used prior to reflow soldering.
1) UL/CUL on request.

Accessories

For all types	Type	Page
	Keying section **CR-MSTB** **Order No.** **1734401**	38
	Keying section **CR-MSTB NAT HT** **Order No.** **1954362**	38
	Marker cards **SK 5/3,8 or SK 5,08/3,8**	798

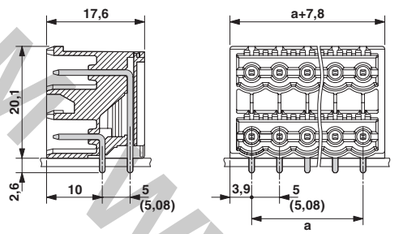


Double-level header, plug-in direction parallel to the PCB



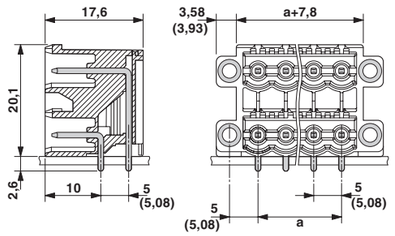
Double-level header, with threaded flange, plug-in direction parallel to the PCB

Dimensional drawing



Drilling diagram

Dimensional drawing



Drilling diagram

Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current	[A]	12		
Rated insulation voltage for pollution degree 2	[V]	400		
Pitch	[mm]	5 / 5.08		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	320	400	400
Rated surge voltage	[kV]	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		LCP / IIIa		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.6 / 1 x 1		

Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		Pitch 5.0 mm, color: Black		
2	5.00	**CCDN 2,5/ 2-G1 P26 THR**	**1734280**	50
3	10.00	**CCDN 2,5/ 3-G1 P26 THR**	**1734287**	50
4	15.00	**CCDN 2,5/ 4-G1 P26 THR**	**1734290**	50
5	20.00	**CCDN 2,5/ 5-G1 P26 THR**	**1734300**	50
6	25.00	**CCDN 2,5/ 6-G1 P26 THR**	**1734313**	50
7	30.00	**CCDN 2,5/ 7-G1 P26 THR**	**1734326**	50
8	35.00	**CCDN 2,5/ 8-G1 P26 THR**	**1734339**	50
9	40.00	**CCDN 2,5/ 9-G1 P26 THR**	**1734342**	50
10	45.00	**CCDN 2,5/10-G1 P26 THR**	**1734355**	50
11	50.00	**CCDN 2,5/11-G1 P26 THR**	**1734368**	50
12	55.00	**CCDN 2,5/12-G1 P26 THR**	**1734371**	50
13	60.00	**CCDN 2,5/13-G1 P26 THR**	**1734384**	50
14	65.00	**CCDN 2,5/14-G1 P26 THR**	**1734397**	50
15	70.00	**CCDN 2,5/15-G1 P26 THR**	**1734407**	50
16	75.00	**CCDN 2,5/16-G1 P26 THR**	**1734410**	50
		Headers, 5.08 mm pitch, color: Black		
2	5.08	**CCDN 2,5/ 2-G1-5,08 P26 THR**	**1753132**	50
3	10.16	**CCDN 2,5/ 3-G1-5,08 P26 THR**	**1753145**	50
4	15.24	**CCDN 2,5/ 4-G1-5,08 P26 THR**	**1753158**	50
5	20.32	**CCDN 2,5/ 5-G1-5,08 P26 THR**	**1753161**	50
6	25.40	**CCDN 2,5/ 6-G1-5,08 P26 THR**	**1753174**	50
7	30.48	**CCDN 2,5/ 7-G1-5,08 P26 THR**	**1753187**	50
8	35.56	**CCDN 2,5/ 8-G1-5,08 P26 THR**	**1753190**	50
9	40.64	**CCDN 2,5/ 9-G1-5,08 P26 THR**	**1753200**	50
10	45.72	**CCDN 2,5/10-G1-5,08 P26 THR**	**1753213**	50
11	50.80	**CCDN 2,5/11-G1-5,08 P26 THR**	**1753226**	50
12	55.88	**CCDN 2,5/12-G1-5,08 P26 THR**	**1753239**	50
13	60.96	**CCDN 2,5/13-G1-5,08 P26 THR**	**1753242**	50
14	66.04	**CCDN 2,5/14-G1-5,08 P26 THR**	**1753255**	50
15	71.12	**CCDN 2,5/15-G1-5,08 P26 THR**	**1753268**	50
16	76.20	**CCDN 2,5/16-G1-5,08 P26 THR**	**1753271**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 5.0 mm, color: Black		
CCDN 2,5/ 2-G1F P26 THR	**1734449**	50
CCDN 2,5/ 3-G1F P26 THR	**1734452**	50
CCDN 2,5/ 4-G1F P26 THR	**1734465**	50
CCDN 2,5/ 5-G1F P26 THR	**1734478**	50
CCDN 2,5/ 6-G1F P26 THR	**1734481**	50
CCDN 2,5/ 7-G1F P26 THR	**1734494**	50
CCDN 2,5/ 8-G1F P26 THR	**1734504**	50
CCDN 2,5/ 9-G1F P26 THR	**1734517**	50
CCDN 2,5/10-G1F P26 THR	**1734520**	50
CCDN 2,5/11-G1F P26 THR	**1734533**	50
CCDN 2,5/12-G1F P26 THR	**1734546**	50
CCDN 2,5/13-G1F P26 THR	**1734559**	50
CCDN 2,5/14-G1F P26 THR	**1734562**	50
CCDN 2,5/15-G1F P26 THR	**1734575**	50
CCDN 2,5/16-G1F P26 THR	**1734588**	50
Headers, 5.08 mm pitch, color: Black		
CCDN 2,5/ 2-G1F-5,08 P26 THR	**1753307**	50
CCDN 2,5/ 3-G1F-5,08 P26 THR	**1753310**	50
CCDN 2,5/ 4-G1F-5,08 P26 THR	**1753323**	50
CCDN 2,5/ 5-G1F-5,08 P26 THR	**1753336**	50
CCDN 2,5/ 6-G1F-5,08 P26 THR	**1753349**	50
CCDN 2,5/ 7-G1F-5,08 P26 THR	**1753352**	50
CCDN 2,5/ 8-G1F-5,08 P26 THR	**1753365**	50
CCDN 2,5/ 9-G1F-5,08 P26 THR	**1753378**	50
CCDN 2,5/10-G1F-5,08 P26 THR	**1753381**	50
CCDN 2,5/11-G1F-5,08 P26 THR	**1753394**	50
CCDN 2,5/12-G1F-5,08 P26 THR	**1753404**	50
CCDN 2,5/13-G1F-5,08 P26 THR	**1753417**	50
CCDN 2,5/14-G1F-5,08 P26 THR	**1753420**	50
CCDN 2,5/15-G1F-5,08 P26 THR	**1753433**	50
CCDN 2,5/16-G1F-5,08 P26 THR	**1753446**	50

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Classic plug-in connector with 5.0 to 7.62 mm pitch
CLASSIC COMBICON connectors, pitches 5.0 or 5.08 mm

Orthogonal header for reflow processes



- Orthogonal headers for the through-hole reflow process
- Made of highly temperature-resistant polyamide for use in lead-free solder processes
- Integrated suction surface for Pick and Place
- Standard form of delivery: taped, loose as an option
- For ME/ME MAX electronic housing
- Plug-in direction orthogonal to the PCB
- 2-, 3- and 4-pos.
- Pitch 5 mm
- Connection cross section of up 2.5 mm²

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 259.

Accessories

For all types	Type	Page
	Keying section **CR-MSTB NAT HT** **Order No.** **1954362**	38

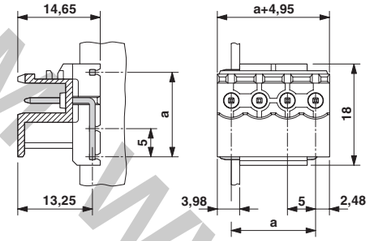


Pin strip leading off at a right angle "left"

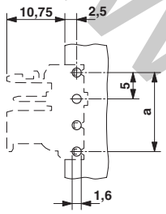


Pin strip leading off at a right angle "right"

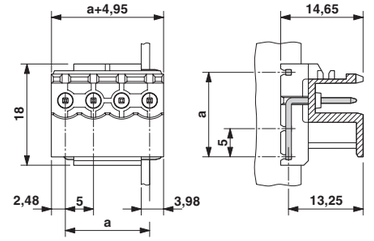
Dimensional drawing



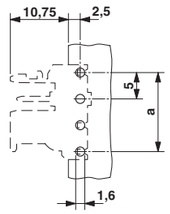
Drilling diagram



Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current	[A]	16		
Rated insulation voltage for pollution degree 2	[V]	320		
Pitch	[mm]	5		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250	320	400
Rated surge voltage	[kV]	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	12	-	10
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.6 / 1 x 1		

No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00

Ordering data

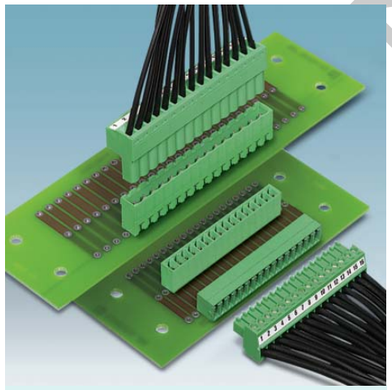
Type	Order No.	Pcs. / Pkt.
Pitch 5.0 mm, color: Black		
MSTBO 2,5/ 2-G1L THRR32 BK	**2200251**	230
MSTBO 2,5/ 3 G1L THRR44 BK	**2915216**	170
MSTBO 2,5/ 4-G1L THRR44 BK	**2697194**	100

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 5.0 mm, color: Black		
MSTBO 2,5/ 2-G1R THRR32 BK	**2200252**	230
MSTBO 2,5/ 3 G1R THRR44 BK	**2915229**	170
MSTBO 2,5/ 4-G1R THRR44 BK	**2697204**	100

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Single-level header for press-in technology



- Pin strips with flexible press-in zone ERNI-PRESS
- Processing as per EN 60352-5
- Press-in tools available on request
- Versions with and without a threaded flange
- Higher numbers of positions up to 24-pos. can be found at: **www.phoenixcontact.net/products**

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

Press-in technology and the structure of the metal-plated hole are explained on page 31.

Mounting screws for base element with threaded flange (....GF...): sheet metal screw ISO 1481-ST 2,2x6,5 C or ISO 7049-ST 2,2x6,5 C.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 259.

¹) EMSTBVA 2,5/...-G from 2- to 12-pos., insulation material/insulation material group: PA/I

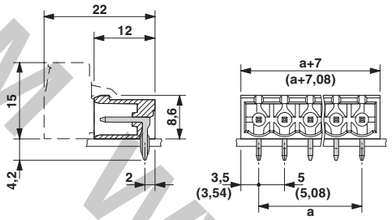
Accessories

For all types	Type	Page
	Marker cards **SK 5/3,8 or SK 5,08/3,8**	798
	Keying section **CR-MSTB Order No. 1734401**	38
	Keying tab **MSTB-BL Order No. 1755477**	837
	Stamp holder **EMSTB 2,5-SH Order No. 1877203**	826
Only for EMSTBVA 2,5/...-G and EMSTBV 2,5/...-GF		
	Stamp set **EMSTBVA 2,5_SS-... Order No. 1877216**	826

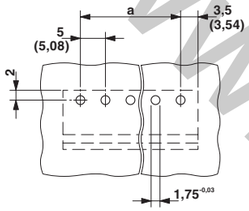


With side panels, plug-in direction parallel to the PCB

Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current	[A]	12		
Rated insulation voltage for pollution degree 2	[V]	320		
Pitch	[mm]	5 / 5.08		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250	320	400
Rated surge voltage	[kV]	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	15	-	15
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		PBT / IIIa¹)		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.75 / 1,7 mm		

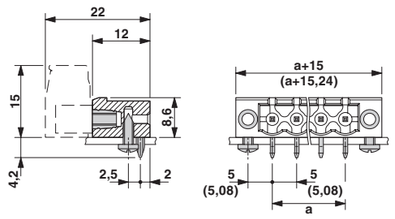
Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		5.0 mm pitch, color: green		
2	5.00	**EMSTBA 2,5/ 2-G**	**1899841**	50
3	10.00	**EMSTBA 2,5/ 3-G**	**1899854**	50
4	15.00	**EMSTBA 2,5/ 4-G**	**1899867**	50
5	20.00	**EMSTBA 2,5/ 5-G**	**1899870**	50
6	25.00	**EMSTBA 2,5/ 6-G**	**1899883**	50
7	30.00	**EMSTBA 2,5/ 7-G**	**1899896**	50
8	35.00	**EMSTBA 2,5/ 8-G**	**1899906**	50
9	40.00	**EMSTBA 2,5/ 9-G**	**1899919**	50
10	45.00	**EMSTBA 2,5/10-G**	**1899922**	50
11	50.00	**EMSTBA 2,5/11-G**	**1899935**	50
12	55.00	**EMSTBA 2,5/12-G**	**1899948**	50
13	60.00	**EMSTBA 2,5/13-G**	**1899951**	50
14	65.00	**EMSTBA 2,5/14-G**	**1899964**	50
15	70.00	**EMSTBA 2,5/15-G**	**1899977**	50
16	75.00	**EMSTBA 2,5/16-G**	**1899980**	50
		5.08 mm pitch, color: Green		
2	5.08	**EMSTBA 2,5/ 2-G-5,08**	**1880300**	50
3	10.16	**EMSTBA 2,5/ 3-G-5,08**	**1880313**	50
4	15.24	**EMSTBA 2,5/ 4-G-5,08**	**1880326**	50
5	20.32	**EMSTBA 2,5/ 5-G-5,08**	**1880339**	50
6	25.40	**EMSTBA 2,5/ 6-G-5,08**	**1880342**	50
7	30.48	**EMSTBA 2,5/ 7-G-5,08**	**1880355**	50
8	35.56	**EMSTBA 2,5/ 8-G-5,08**	**1880368**	50
9	40.64	**EMSTBA 2,5/ 9-G-5,08**	**1880371**	50
10	45.72	**EMSTBA 2,5/10-G-5,08**	**1880384**	50
11	50.80	**EMSTBA 2,5/11-G-5,08**	**1880397**	50
12	55.88	**EMSTBA 2,5/12-G-5,08**	**1880407**	50
13	60.96	**EMSTBA 2,5/13-G-5,08**	**1880410**	50
14	66.04	**EMSTBA 2,5/14-G-5,08**	**1880423**	50
15	71.12	**EMSTBA 2,5/15-G-5,08**	**1880436**	50
16	76.20	**EMSTBA 2,5/16-G-5,08**	**1880449**	50

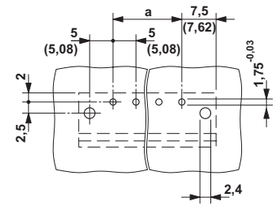


With threaded flange, plug-in direction parallel to the PCB

Dimensional drawing

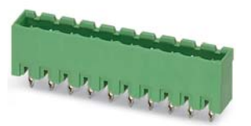


Drilling diagram



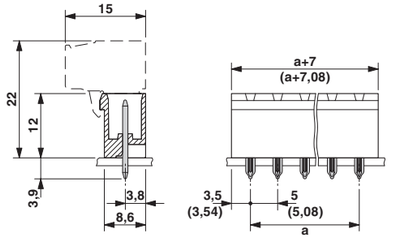
Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
EMSTB 2,5/ 2-GF	**1900073**	50
EMSTB 2,5/ 3-GF	**1900086**	50
EMSTB 2,5/ 4-GF	**1900099**	50
EMSTB 2,5/ 5-GF	**1900109**	50
EMSTB 2,5/ 6-GF	**1900112**	50
EMSTB 2,5/ 7-GF	**1900125**	50
EMSTB 2,5/ 8-GF	**1900138**	50
EMSTB 2,5/ 9-GF	**1900141**	50
EMSTB 2,5/10-GF	**1900154**	50
EMSTB 2,5/11-GF	**1900167**	50
EMSTB 2,5/12-GF	**1900170**	50
EMSTB 2,5/13-GF	**1900183**	50
EMSTB 2,5/14-GF	**1900196**	50
EMSTB 2,5/15-GF	**1900206**	50
EMSTB 2,5/16-GF	**1900219**	50
5.08 mm pitch, color: Green		
EMSTB 2,5/ 2-GF-5,08	**1899618**	50
EMSTB 2,5/ 3-GF-5,08	**1899621**	50
EMSTB 2,5/ 4-GF-5,08	**1899634**	50
EMSTB 2,5/ 5-GF-5,08	**1899647**	50
EMSTB 2,5/ 6-GF-5,08	**1899650**	50
EMSTB 2,5/ 7-GF-5,08	**1899663**	50
EMSTB 2,5/ 8-GF-5,08	**1899676**	50
EMSTB 2,5/ 9-GF-5,08	**1899689**	50
EMSTB 2,5/10-GF-5,08	**1899692**	50
EMSTB 2,5/11-GF-5,08	**1899702**	50
EMSTB 2,5/12-GF-5,08	**1899715**	50
EMSTB 2,5/13-GF-5,08	**1899728**	50
EMSTB 2,5/14-GF-5,08	**1899731**	50
EMSTB 2,5/15-GF-5,08	**1899744**	50
EMSTB 2,5/16-GF-5,08	**1899757**	50

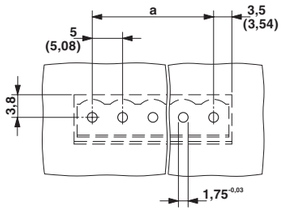


With side panels, plug-in direction vertical to the PCB

Dimensional drawing



Drilling diagram



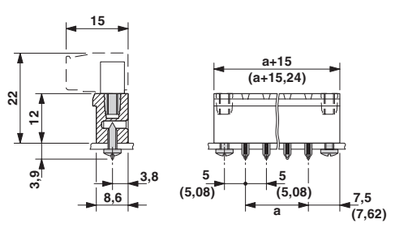
Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
EMSTBVA 2,5/ 2-G	**1914852**	50
EMSTBVA 2,5/ 3-G	**1914865**	50
EMSTBVA 2,5/ 4-G	**1914878**	50
EMSTBVA 2,5/ 5-G	**1914881**	50
EMSTBVA 2,5/ 6-G	**1914894**	50
EMSTBVA 2,5/ 7-G	**1914904**	50
EMSTBVA 2,5/ 8-G	**1914917**	50
EMSTBVA 2,5/ 9-G	**1914920**	50
EMSTBVA 2,5/10-G	**1914933**	50
EMSTBVA 2,5/11-G	**1914946**	50
EMSTBVA 2,5/12-G	**1914959**	50
EMSTBVA 2,5/13-G	**1914962**	50
EMSTBVA 2,5/14-G	**1914975**	50
EMSTBVA 2,5/15-G	**1914988**	50
EMSTBVA 2,5/16-G	**1914991**	50
5.08 mm pitch, color: Green		
EMSTBVA 2,5/ 2-G-5,08	**1859519**	50
EMSTBVA 2,5/ 3-G-5,08	**1859522**	50
EMSTBVA 2,5/ 4-G-5,08	**1859535**	50
EMSTBVA 2,5/ 5-G-5,08	**1859548**	50
EMSTBVA 2,5/ 6-G-5,08	**1859551**	50
EMSTBVA 2,5/ 7-G-5,08	**1859564**	50
EMSTBVA 2,5/ 8-G-5,08	**1859577**	50
EMSTBVA 2,5/ 9-G-5,08	**1859580**	50
EMSTBVA 2,5/10-G-5,08	**1859593**	50
EMSTBVA 2,5/11-G-5,08	**1859603**	50
EMSTBVA 2,5/12-G-5,08	**1859616**	50
EMSTBVA 2,5/13-G-5,08	**1859629**	50
EMSTBVA 2,5/14-G-5,08	**1859632**	50
EMSTBVA 2,5/15-G-5,08	**1859645**	50
EMSTBVA 2,5/16-G-5,08	**1859658**	50

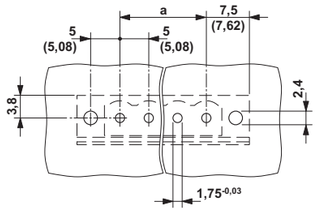


With threaded flange, plug-in direction vertical to the PCB

Dimensional drawing



Drilling diagram

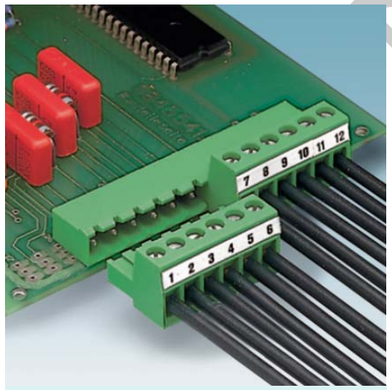


Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
EMSTBV 2,5/ 2-GF	**1914055**	50
EMSTBV 2,5/ 3-GF	**1914068**	50
EMSTBV 2,5/ 4-GF	**1914071**	50
EMSTBV 2,5/ 5-GF	**1914084**	50
EMSTBV 2,5/ 6-GF	**1915107**	50
EMSTBV 2,5/ 7-GF	**1915110**	50
EMSTBV 2,5/ 8-GF	**1915123**	50
EMSTBV 2,5/ 9-GF	**1915136**	50
EMSTBV 2,5/10-GF	**1915149**	50
EMSTBV 2,5/11-GF	**1915152**	50
EMSTBV 2,5/12-GF	**1915165**	50
EMSTBV 2,5/13-GF	**1915178**	50
EMSTBV 2,5/14-GF	**1915181**	50
EMSTBV 2,5/15-GF	**1915194**	50
EMSTBV 2,5/16-GF	**1915204**	50
5.08 mm pitch, color: Green		
EMSTBV 2,5/ 2-GF-5,08	**1915217**	50
EMSTBV 2,5/ 3-GF-5,08	**1898648**	50
EMSTBV 2,5/ 4-GF-5,08	**1915233**	50
EMSTBV 2,5/ 5-GF-5,08	**1915246**	50
EMSTBV 2,5/ 6-GF-5,08	**1915259**	50
EMSTBV 2,5/ 7-GF-5,08	**1915262**	50
EMSTBV 2,5/ 8-GF-5,08	**1915275**	50
EMSTBV 2,5/ 9-GF-5,08	**1915288**	50
EMSTBV 2,5/10-GF-5,08	**1915291**	50
EMSTBV 2,5/11-GF-5,08	**1915301**	50
EMSTBV 2,5/12-GF-5,08	**1915314**	50
EMSTBV 2,5/13-GF-5,08	**1915327**	50
EMSTBV 2,5/14-GF-5,08	**1915330**	50
EMSTBV 2,5/15-GF-5,08	**1915343**	50
EMSTBV 2,5/16-GF-5,08	**1915356**	50

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Single-level header for the wave soldering processes



- Standard pin strip for 320 V (III/2)
- Plug-in direction parallel to the conductor axis
- Designs with and without side panel
- W-type with stand-off
- Versions with engagement noses for locking plugs with self-locking flanges
- Other pin lengths available on request
- Higher numbers of positions up to 24-pos. can be found at: **www.phoenixcontact.net/products**

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

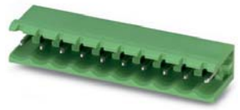
COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 259.

Mounting screws for MSTB 2,5/...-GF(-5,08): sheet metal screw ISO 1481-ST 2,2x6,5 C or ISO 7049-ST 2,2x6,5 C. Screw connection only permitted prior to soldering.

1) MSTB 2,5/...-G and MSTBA 2,5/....-G from 2- to 12-pos.: insulation material/insulation material group = PA/I, more than 12-pos.: insulation material/insulation material group = PBT/IIIa.

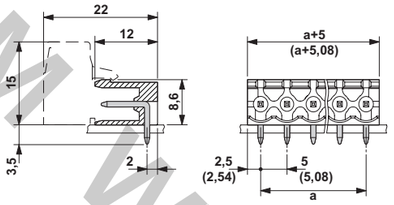
Accessories

For all types	Type	Page
	Marker cards **SK 5/3,8 or SK 5,08/3,8**	798
	Keying section **CR-MSTB Order No. 1734401**	38
	Keying tab **MSTB-BL Order No. 1755477**	837
Only for MSTB 2,5/...-G		
	Mounting flange **MSTB-BF Order No. 1759981**	836

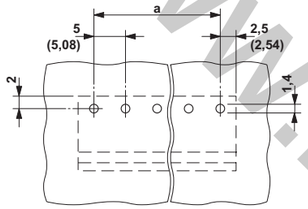


Without side panels, plug-in direction parallel to the PCB

Dimensional drawing



Drawing diagram

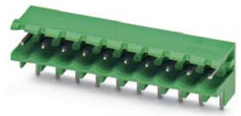


Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current	[A]	12		
Rated insulation voltage for pollution degree 2	[V]	320		
Pitch	[mm]	5 / 5.08		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250	320	400
Rated surge voltage	[kV]	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	15	-	15
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	10	-	10
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		PBT / IIIa1)		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.4 / 1 x 1 mm		

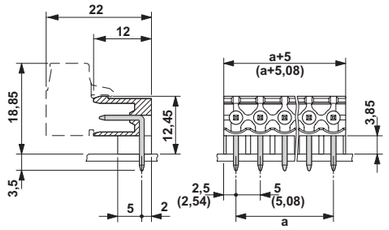
Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		5.0 mm pitch, color: green		
2	5.00	**MSTB 2,5/ 2-G**	**1754436**	250
3	10.00	**MSTB 2,5/ 3-G**	**1754452**	250
4	15.00	**MSTB 2,5/ 4-G**	**1754478**	250
5	20.00	**MSTB 2,5/ 5-G**	**1754494**	250
6	25.00	**MSTB 2,5/ 6-G**	**1754517**	100
7	30.00	**MSTB 2,5/ 7-G**	**1754533**	100
8	35.00	**MSTB 2,5/ 8-G**	**1754559**	100
9	40.00	**MSTB 2,5/ 9-G**	**1754575**	100
10	45.00	**MSTB 2,5/10-G**	**1754591**	100
11	50.00	**MSTB 2,5/11-G**	**1754614**	50
12	55.00	**MSTB 2,5/12-G**	**1754630**	50
13	60.00	**MSTB 2,5/13-G**	**1754656**	50
14	65.00	**MSTB 2,5/14-G**	**1754672**	50
15	70.00	**MSTB 2,5/15-G**	**1754698**	50
16	75.00	**MSTB 2,5/16-G**	**1754711**	50
		5.08 mm pitch, color: Green		
2	5.08	**MSTB 2,5/ 2-G-5,08**	**1759017**	250
3	10.16	**MSTB 2,5/ 3-G-5,08**	**1759020**	250
4	15.24	**MSTB 2,5/ 4-G-5,08**	**1759033**	250
5	20.32	**MSTB 2,5/ 5-G-5,08**	**1759046**	250
6	25.40	**MSTB 2,5/ 6-G-5,08**	**1759059**	100
7	30.48	**MSTB 2,5/ 7-G-5,08**	**1759062**	100
8	35.56	**MSTB 2,5/ 8-G-5,08**	**1759075**	100
9	40.64	**MSTB 2,5/ 9-G-5,08**	**1759088**	100
10	45.72	**MSTB 2,5/10-G-5,08**	**1759091**	100
11	50.80	**MSTB 2,5/11-G-5,08**	**1759101**	50
12	55.88	**MSTB 2,5/12-G-5,08**	**1759114**	50
13	60.96	**MSTB 2,5/13-G-5,08**	**1759127**	50
14	66.04	**MSTB 2,5/14-G-5,08**	**1759130**	50
15	71.12	**MSTB 2,5/15-G-5,08**	**1759143**	50
16	76.20	**MSTB 2,5/16-G-5,08**	**1759156**	50

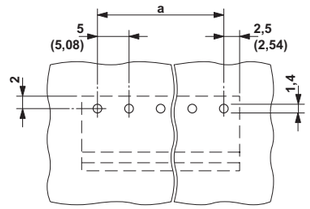


Without side panels, with stand-off, plug-in direction parallel to the PCB

Dimensional drawing



Drawing diagram



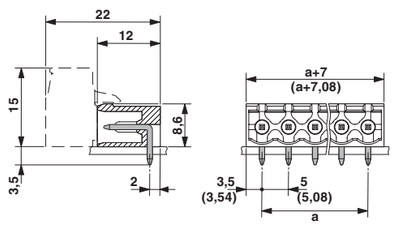
Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MSTBW 2,5/ 2-G	**1736111**	50
MSTBW 2,5/ 3-G	**1736108**	50
MSTBW 2,5/ 4-G	**1736098**	50
MSTBW 2,5/ 5-G	**1736085**	50
MSTBW 2,5/ 6-G	**1736072**	50
MSTBW 2,5/ 7-G	**1736069**	50
MSTBW 2,5/ 8-G	**1736056**	50
MSTBW 2,5/ 9-G	**1736043**	50
MSTBW 2,5/10-G	**1736030**	50
MSTBW 2,5/11-G	**1736027**	50
MSTBW 2,5/12-G	**1736014**	50
MSTBW 2,5/13-G	**1736001**	50
MSTBW 2,5/14-G	**1735992**	50
MSTBW 2,5/15-G	**1735989**	50
MSTBW 2,5/16-G	**1735976**	50
5.08 mm pitch, color: Green		
MSTBW 2,5/ 2-G-5,08	**1735882**	50
MSTBW 2,5/ 3-G-5,08	**1735879**	50
MSTBW 2,5/ 4-G-5,08	**1735866**	50
MSTBW 2,5/ 5-G-5,08	**1735853**	50
MSTBW 2,5/ 6-G-5,08	**1735840**	50
MSTBW 2,5/ 7-G-5,08	**1735837**	50
MSTBW 2,5/ 8-G-5,08	**1735824**	50
MSTBW 2,5/ 9-G-5,08	**1735811**	50
MSTBW 2,5/10-G-5,08	**1735808**	50
MSTBW 2,5/11-G-5,08	**1735798**	50
MSTBW 2,5/12-G-5,08	**1735785**	50
MSTBW 2,5/13-G-5,08	**1735772**	50
MSTBW 2,5/14-G-5,08	**1735769**	50
MSTBW 2,5/15-G-5,08	**1735756**	50
MSTBW 2,5/16-G-5,08	**1735743**	50

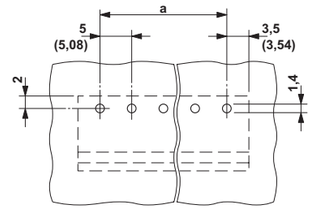


With side panels, plug-in direction parallel to the PCB

Dimensional drawing

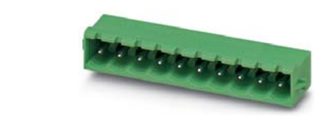


Drawing diagram



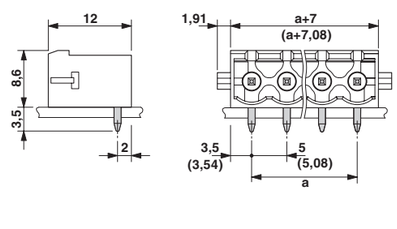
Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MSTBA 2,5/ 2-G	**1757475**	250
MSTBA 2,5/ 3-G	**1757488**	250
MSTBA 2,5/ 4-G	**1757491**	250
MSTBA 2,5/ 5-G	**1757501**	250
MSTBA 2,5/ 6-G	**1757514**	100
MSTBA 2,5/ 7-G	**1755493**	100
MSTBA 2,5/ 8-G	**1757527**	100
MSTBA 2,5/ 9-G	**1757530**	100
MSTBA 2,5/10-G	**1757543**	100
MSTBA 2,5/11-G	**1757556**	50
MSTBA 2,5/12-G	**1757569**	50
MSTBA 2,5/13-G	**1757572**	50
MSTBA 2,5/14-G	**1757585**	50
MSTBA 2,5/15-G	**1757598**	50
MSTBA 2,5/16-G	**1757608**	50
5.08 mm pitch, color: Green		
MSTBA 2,5/ 2-G-5,08	**1757242**	250
MSTBA 2,5/ 3-G-5,08	**1757255**	250
MSTBA 2,5/ 4-G-5,08	**1757268**	250
MSTBA 2,5/ 5-G-5,08	**1757271**	250
MSTBA 2,5/ 6-G-5,08	**1757284**	100
MSTBA 2,5/ 7-G-5,08	**1757297**	100
MSTBA 2,5/ 8-G-5,08	**1757307**	100
MSTBA 2,5/ 9-G-5,08	**1757310**	100
MSTBA 2,5/10-G-5,08	**1757323**	100
MSTBA 2,5/11-G-5,08	**1757336**	50
MSTBA 2,5/12-G-5,08	**1757349**	50
MSTBA 2,5/13-G-5,08	**1757352**	50
MSTBA 2,5/14-G-5,08	**1757365**	50
MSTBA 2,5/15-G-5,08	**1757378**	50
MSTBA 2,5/16-G-5,08	**1757381**	50

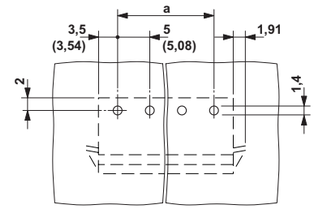


With engagement noses, plug-in direction parallel to the PCB

Dimensional drawing



Drawing diagram

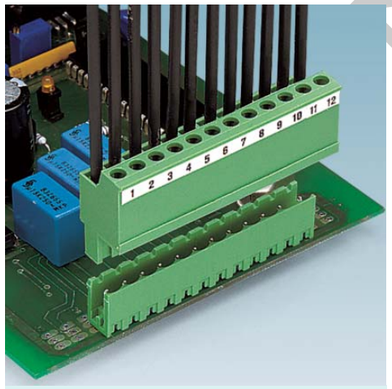


Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MSTBA 2,5/ 2-G-RN	**1944783**	50
MSTBA 2,5/ 3-G-RN	**1944796**	50
MSTBA 2,5/ 4-G-RN	**1944806**	50
MSTBA 2,5/ 5-G-RN	**1944819**	50
MSTBA 2,5/ 6-G-RN	**1944822**	50
MSTBA 2,5/ 7-G-RN	**1944835**	50
MSTBA 2,5/ 8-G-RN	**1944848**	50
MSTBA 2,5/ 9-G-RN	**1944851**	50
MSTBA 2,5/10-G-RN	**1944864**	50
MSTBA 2,5/11-G-RN	**1944877**	50
MSTBA 2,5/12-G-RN	**1944880**	50
MSTBA 2,5/13-G-RN	**1944893**	50
MSTBA 2,5/14-G-RN	**1944903**	50
MSTBA 2,5/15-G-RN	**1944916**	50
MSTBA 2,5/16-G-RN	**1944929**	50
5.08 mm pitch, color: Green		
MSTBA 2,5/ 2-G-5,08-RN	**1926015**	50
MSTBA 2,5/ 3-G-5,08-RN	**1926028**	50
MSTBA 2,5/ 4-G-5,08-RN	**1926031**	50
MSTBA 2,5/ 5-G-5,08-RN	**1926044**	50
MSTBA 2,5/ 6-G-5,08-RN	**1926057**	50
MSTBA 2,5/ 7-G-5,08-RN	**1926060**	50
MSTBA 2,5/ 8-G-5,08-RN	**1926073**	50
MSTBA 2,5/ 9-G-5,08-RN	**1926086**	50
MSTBA 2,5/10-G-5,08-RN	**1926099**	50
MSTBA 2,5/11-G-5,08-RN	**1926109**	50
MSTBA 2,5/12-G-5,08-RN	**1926112**	50
MSTBA 2,5/13-G-5,08-RN	**1926125**	50
MSTBA 2,5/14-G-5,08-RN	**1926138**	50
MSTBA 2,5/15-G-5,08-RN	**1926141**	50
MSTBA 2,5/16-G-5,08-RN	**1926154**	50

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Single-level header for the wave soldering processes



- Standard pin strip for 320 V (III/2)
- Plug-in direction parallel and vertical to the PCB
- Designs with and without side panel
- Versions with a threaded flange
- Versions with Lock & Release locking
- Other pin lengths available on request
- Higher numbers of positions up to 24-pos. can be found at: **www.phoenixcontact.net/products**

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 259.

Mounting screws for MSTB 2,5/...-GF(-5,08): sheet metal screw ISO 1481-ST 2,2x6,5 C or ISO 7049-ST 2,2x6,5 C. Screw connection only permitted prior to soldering.

[1]) MSTB 2,5/...-G and MSTBA 2,5/....-G from 2- to 12-pos.: insulation material/insulation material group = PA/I, more than 12-pos.: insulation material/insulation material group = PBT/IIIa

[2]) MSTBV(A) 2,5/ has 12 A in Use Group B.

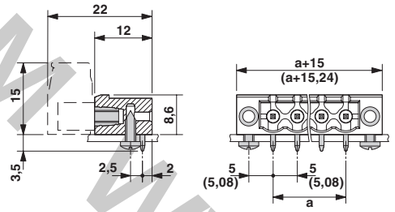
Accessories

For all types	Type	Page
	Marker cards **SK 5/3,8 or SK 5,08/3,8**	798
	Keying section **CR-MSTB Order No. 1734401**	38
	Keying tab **MSTB-BL Order No. 1755477**	837
Nur für MSTBV 2,5/...-G		
	Mounting flange **MSTB-BF Order No. 1759981**	836

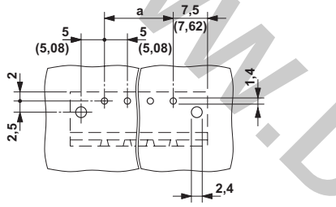


With threaded flange, plug-in direction parallel to the PCB

Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current	[A]	12		
Rated insulation voltage for pollution degree 2	[V]	320		
Pitch	[mm]	5 / 5.08		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250	320	400
Rated surge voltage	[kV]	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	15[2])	-	15
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	10	-	10
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		PBT / IIIa[1])		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.4 / 1 x 1 mm		

Ordering data

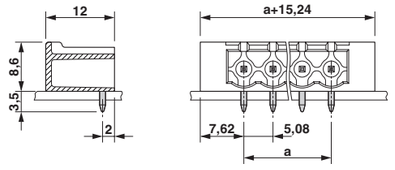
No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		5.0 mm pitch, color: green		
2	5.00	**MSTB 2,5/ 2-GF**	**1776692**	250
3	10.00	**MSTB 2,5/ 3-GF**	**1776702**	250
4	15.00	**MSTB 2,5/ 4-GF**	**1776715**	250
5	20.00	**MSTB 2,5/ 5-GF**	**1776728**	250
6	25.00	**MSTB 2,5/ 6-GF**	**1776731**	100
7	30.00	**MSTB 2,5/ 7-GF**	**1776744**	100
8	35.00	**MSTB 2,5/ 8-GF**	**1776757**	100
9	40.00	**MSTB 2,5/ 9-GF**	**1776760**	100
10	45.00	**MSTB 2,5/10-GF**	**1776773**	100
11	50.00	**MSTB 2,5/11-GF**	**1776786**	50
12	55.00	**MSTB 2,5/12-GF**	**1776799**	50
13	60.00	**MSTB 2,5/13-GF**	**1776809**	50
14	65.00	**MSTB 2,5/14-GF**	**1776812**	50
15	70.00	**MSTB 2,5/15-GF**	**1776825**	50
16	75.00	**MSTB 2,5/16-GF**	**1776838**	50
		5.08 mm pitch, color: Green		
2	5.08	**MSTB 2,5/ 2-GF-5,08**	**1776508**	250
3	10.16	**MSTB 2,5/ 3-GF-5,08**	**1776511**	250
4	15.24	**MSTB 2,5/ 4-GF-5,08**	**1776524**	250
5	20.32	**MSTB 2,5/ 5-GF-5,08**	**1776537**	250
6	25.40	**MSTB 2,5/ 6-GF-5,08**	**1776540**	100
7	30.48	**MSTB 2,5/ 7-GF-5,08**	**1776553**	100
8	35.56	**MSTB 2,5/ 8-GF-5,08**	**1776566**	100
9	40.64	**MSTB 2,5/ 9-GF-5,08**	**1776579**	100
10	45.72	**MSTB 2,5/10-GF-5,08**	**1776582**	100
11	50.80	**MSTB 2,5/11-GF-5,08**	**1776595**	50
12	55.88	**MSTB 2,5/12-GF-5,08**	**1776605**	50
13	60.96	**MSTB 2,5/13-GF-5,08**	**1776618**	50
14	66.04	**MSTB 2,5/14-GF-5,08**	**1776621**	50
15	71.12	**MSTB 2,5/15-GF-5,08**	**1776634**	50
16	76.20	**MSTB 2,5/16-GF-5,08**	**1776647**	50

N

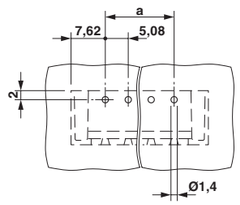


Lock & Release locking, plug-in direction parallel to the PCB

Dimensional drawing



Drilling diagram



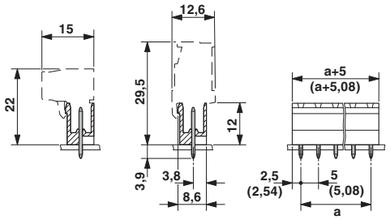
Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MSTBA 2,5/ 2-G5,08-LR	**1809076**	50
MSTBA 2,5/ 3-G5,08-LR	**1809089**	50
MSTBA 2,5/ 4-G5,08-LR	**1809092**	50
MSTBA 2,5/ 5-G5,08-LR	**1809102**	50
MSTBA 2,5/ 6-G5,08-LR	**1809115**	50
MSTBA 2,5/ 7-G5,08-LR	**1809128**	50
MSTBA 2,5/ 8-G5,08-LR	**1809131**	50
MSTBA 2,5/ 9-G5,08-LR	**1809144**	50
MSTBA 2,5/10-G5,08-LR	**1809157**	50
MSTBA 2,5/11-G5,08-LR	**1809160**	50
MSTBA 2,5/12-G5,08-LR	**1809173**	50
MSTBA 2,5/13-G5,08-LR	**1809186**	50
MSTBA 2,5/14-G5,08-LR	**1809199**	50
MSTBA 2,5/15-G5,08-LR	**1809209**	50
MSTBA 2,5/16-G5,08-LR	**1809212**	50

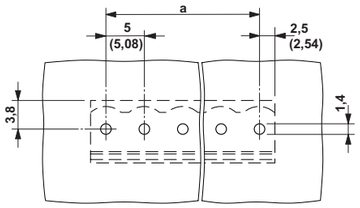


Without side panels, plug-in direction vertical to the PCB

Dimensional drawing



Drilling diagram



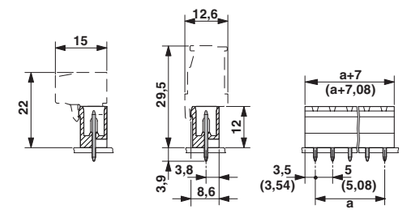
Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MSTBV 2,5/ 2-G	**1753437**	250
MSTBV 2,5/ 3-G	**1753453**	250
MSTBV 2,5/ 4-G	**1753479**	250
MSTBV 2,5/ 5-G	**1753495**	250
MSTBV 2,5/ 6-G	**1753518**	100
MSTBV 2,5/ 7-G	**1753534**	100
MSTBV 2,5/ 8-G	**1753550**	100
MSTBV 2,5/ 9-G	**1753576**	100
MSTBV 2,5/10-G	**1753592**	100
MSTBV 2,5/11-G	**1753615**	50
MSTBV 2,5/12-G	**1753631**	50
MSTBV 2,5/13-G	**1753657**	50
MSTBV 2,5/14-G	**1753673**	50
MSTBV 2,5/15-G	**1753699**	50
MSTBV 2,5/16-G	**1753712**	50
5.08 mm pitch, color: Green		
MSTBV 2,5/ 2-G5,08	**1758018**	250
MSTBV 2,5/ 3-G5,08	**1758021**	250
MSTBV 2,5/ 4-G5,08	**1758034**	250
MSTBV 2,5/ 5-G5,08	**1758047**	250
MSTBV 2,5/ 6-G5,08	**1758050**	100
MSTBV 2,5/ 7-G5,08	**1758063**	100
MSTBV 2,5/ 8-G5,08	**1758076**	100
MSTBV 2,5/ 9-G5,08	**1758089**	100
MSTBV 2,5/10-G5,08	**1758092**	100
MSTBV 2,5/11-G5,08	**1758102**	50
MSTBV 2,5/12-G5,08	**1758115**	50
MSTBV 2,5/13-G5,08	**1758128**	50
MSTBV 2,5/14-G5,08	**1758131**	50
MSTBV 2,5/15-G5,08	**1758144**	50
MSTBV 2,5/16-G5,08	**1758157**	50

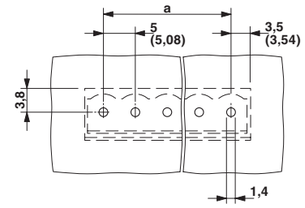


With side panels, plug-in direction vertical to the PCB

Dimensional drawing



Drilling diagram

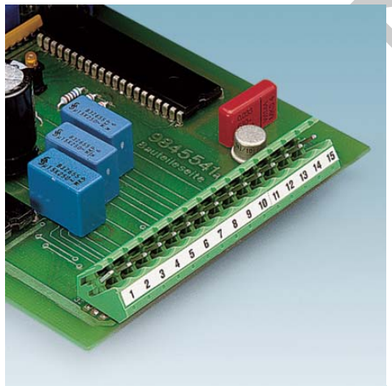


Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MSTBVA 2,5/ 2-G	**1755516**	250
MSTBVA 2,5/ 3-G	**1755529**	250
MSTBVA 2,5/ 4-G	**1755532**	250
MSTBVA 2,5/ 5-G	**1755545**	250
MSTBVA 2,5/ 6-G	**1755558**	100
MSTBVA 2,5/ 7-G	**1755561**	100
MSTBVA 2,5/ 8-G	**1755574**	100
MSTBVA 2,5/ 9-G	**1755587**	100
MSTBVA 2,5/10-G	**1755503**	100
MSTBVA 2,5/11-G	**1755590**	50
MSTBVA 2,5/12-G	**1755600**	50
MSTBVA 2,5/13-G	**1755613**	50
MSTBVA 2,5/14-G	**1755626**	50
MSTBVA 2,5/15-G	**1755639**	50
MSTBVA 2,5/16-G	**1755642**	50
5.08 mm pitch, color: Green		
MSTBVA 2,5/ 2-G5,08	**1755736**	250
MSTBVA 2,5/ 3-G5,08	**1755749**	250
MSTBVA 2,5/ 4-G5,08	**1755752**	250
MSTBVA 2,5/ 5-G5,08	**1755765**	250
MSTBVA 2,5/ 6-G5,08	**1755778**	100
MSTBVA 2,5/ 7-G5,08	**1755781**	100
MSTBVA 2,5/ 8-G5,08	**1755794**	100
MSTBVA 2,5/ 9-G5,08	**1755804**	100
MSTBVA 2,5/10-G5,08	**1755817**	100
MSTBVA 2,5/11-G5,08	**1755820**	50
MSTBVA 2,5/12-G5,08	**1755833**	50
MSTBVA 2,5/13-G5,08	**1755846**	50
MSTBVA 2,5/14-G5,08	**1755859**	50
MSTBVA 2,5/15-G5,08	**1755862**	50
MSTBVA 2,5/16-G5,08	**1755875**	50

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Single-level header for the wave soldering processes



- You can find higher numbers of positions under: **www.phoenixcontact.net/products**
- Versions with a threaded flange
- Versions with engagement noses for locking plugs with self-locking flanges
- Versions for Lock & Release locking
- Version with release aid

Notes:

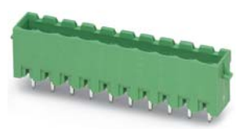
In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 259.

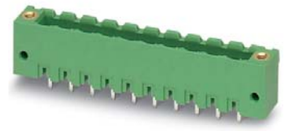
Mounting screws for MSTB 2,5/...-GF(-5,08): sheet metal screw ISO 1481-ST 2,2x6,5 C or ISO 7049-ST 2,2x6,5 C. Screw connection only permitted prior to soldering.

Accessories

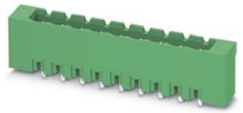
For all types	Type	Page
	Marker cards **SK 5/3,8 or SK 5,08/3,8**	798
	Keying section **CR-MSTB Order No. 1734401**	38
	Keying tab **MSTB-BL Order No. 1755477**	837



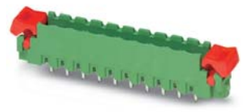
With engagement nose, plug-in direction vertical to the PCB



With threaded flange, plug-in direction vertical to the PCB

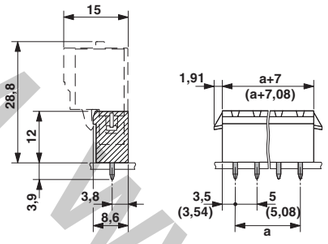


For Lock & Release locking, plug-in direction vertical to the PCB

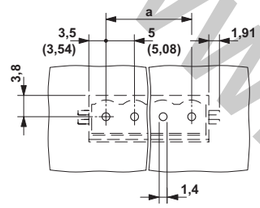


With release aid, plug-in direction vertical to the PCB

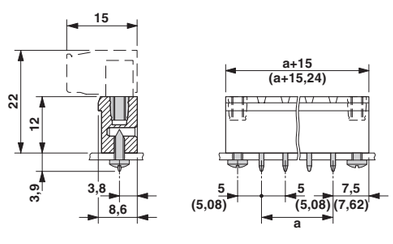
Dimensional drawing



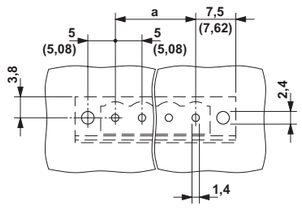
Drilling diagram



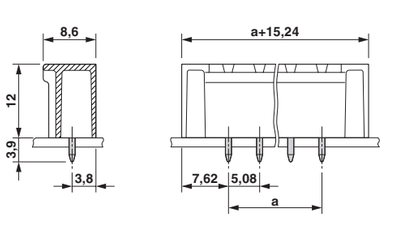
Dimensional drawing



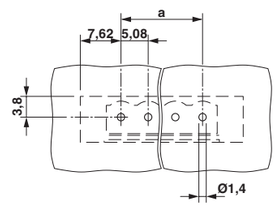
Drilling diagram



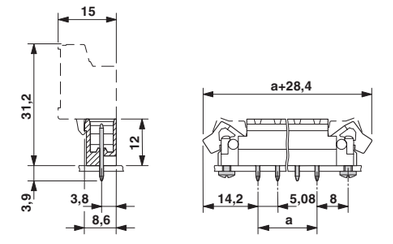
Dimensional drawing



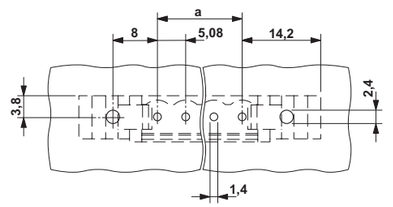
Drilling diagram



Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current	[A]	12		
Rated insulation voltage for pollution degree 2	[V]	320		
Pitch	[mm]	5 / 5.08		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250	320	400
Rated surge voltage	[kV]	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	12	-	12
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		- / I		
Inflammability class according to UL 94		V0		

Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		5.0 mm pitch, color: green		
2	5.00	**MSTBVA 2,5/ 2-G-RN**	**1944592**	50
3	10.00	**MSTBVA 2,5/ 3-G-RN**	**1944602**	50
4	15.00	**MSTBVA 2,5/ 4-G-RN**	**1944615**	50
5	20.00	**MSTBVA 2,5/ 5-G-RN**	**1944628**	50
6	25.00	**MSTBVA 2,5/ 6-G-RN**	**1944631**	50
7	30.00	**MSTBVA 2,5/ 7-G-RN**	**1944644**	50
8	35.00	**MSTBVA 2,5/ 8-G-RN**	**1944657**	50
9	40.00	**MSTBVA 2,5/ 9-G-RN**	**1944660**	50
10	45.00	**MSTBVA 2,5/10-G-RN**	**1944673**	50
11	50.00	**MSTBVA 2,5/11-G-RN**	**1944686**	50
12	55.00	**MSTBVA 2,5/12-G-RN**	**1944699**	50
13	60.00	**MSTBVA 2,5/13-G-RN**	**1944709**	50
14	65.00	**MSTBVA 2,5/14-G-RN**	**1944712**	50
15	70.00	**MSTBVA 2,5/15-G-RN**	**1944725**	50
16	75.00	**MSTBVA 2,5/16-G-RN**	**1944738**	50
		5.08 mm pitch, color: Green		
2	10.16	**MSTBVA 2,5/ 2-G-5,08-RN**	**1936018**	50
3	10.16	**MSTBVA 2,5/ 3-G-5,08-RN**	**1936021**	50
4	15.24	**MSTBVA 2,5/ 4-G-5,08-RN**	**1936034**	50
5	20.32	**MSTBVA 2,5/ 5-G-5,08-RN**	**1936047**	50
6	25.40	**MSTBVA 2,5/ 6-G-5,08-RN**	**1936050**	50
7	30.48	**MSTBVA 2,5/ 7-G-5,08-RN**	**1936063**	50
8	35.56	**MSTBVA 2,5/ 8-G-5,08-RN**	**1936076**	50
9	40.64	**MSTBVA 2,5/ 9-G-5,08-RN**	**1936089**	50
10	45.72	**MSTBVA 2,5/10-G-5,08-RN**	**1936092**	50
11	50.80	**MSTBVA 2,5/11-G-5,08-RN**	**1936102**	50
12	55.88	**MSTBVA 2,5/12-G-5,08-RN**	**1936115**	50
13	60.96	**MSTBVA 2,5/13-G-5,08-RN**	**1936128**	50
14	66.04	**MSTBVA 2,5/14-G-5,08-RN**	**1936131**	50
15	71.12	**MSTBVA 2,5/15-G-5,08-RN**	**1936144**	50
16	76.20	**MSTBVA 2,5/16-G-5,08-RN**	**1936157**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MSTBV 2,5/ 2-GF	**1776883**	250
MSTBV 2,5/ 3-GF	**1776896**	250
MSTBV 2,5/ 4-GF	**1776906**	250
MSTBV 2,5/ 5-GF	**1776919**	250
MSTBV 2,5/ 6-GF	**1776922**	100
MSTBV 2,5/ 7-GF	**1776935**	100
MSTBV 2,5/ 8-GF	**1776948**	100
MSTBV 2,5/ 9-GF	**1776951**	100
MSTBV 2,5/10-GF	**1776964**	100
MSTBV 2,5/11-GF	**1776977**	50
MSTBV 2,5/12-GF	**1776980**	50
MSTBV 2,5/13-GF	**1776993**	50
MSTBV 2,5/14-GF	**1777002**	50
MSTBV 2,5/15-GF	**1777015**	50
MSTBV 2,5/16-GF	**1777028**	50
5.08 mm pitch, color: Green		
MSTBV 2,5/ 2-GF-5,08	**1777073**	250
MSTBV 2,5/ 3-GF-5,08	**1777086**	250
MSTBV 2,5/ 4-GF-5,08	**1777099**	250
MSTBV 2,5/ 5-GF-5,08	**1777109**	250
MSTBV 2,5/ 6-GF-5,08	**1777112**	100
MSTBV 2,5/ 7-GF-5,08	**1777125**	100
MSTBV 2,5/ 8-GF-5,08	**1777138**	100
MSTBV 2,5/ 9-GF-5,08	**1777141**	100
MSTBV 2,5/10-GF-5,08	**1777154**	100
MSTBV 2,5/11-GF-5,08	**1777167**	50
MSTBV 2,5/12-GF-5,08	**1777170**	50
MSTBV 2,5/13-GF-5,08	**1777183**	50
MSTBV 2,5/14-GF-5,08	**1777196**	50
MSTBV 2,5/15-GF-5,08	**1777206**	50
MSTBV 2,5/16-GF-5,08	**1777219**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MSTBVA 2,5/ 2-G-5,08-LR	**1809267**	50
MSTBVA 2,5/ 3-G-5,08-LR	**1809270**	50
MSTBVA 2,5/ 4-G-5,08-LR	**1809283**	50
MSTBVA 2,5/ 5-G-5,08-LR	**1809296**	50
MSTBVA 2,5/ 6-G-5,08-LR	**1809306**	50
MSTBVA 2,5/ 7-G-5,08-LR	**1809319**	50
MSTBVA 2,5/ 8-G-5,08-LR	**1809322**	50
MSTBVA 2,5/ 9-G-5,08-LR	**1809335**	50
MSTBVA 2,5/10-G-5,08-LR	**1809348**	50
MSTBVA 2,5/11-G-5,08-LR	**1809351**	50
MSTBVA 2,5/12-G-5,08-LR	**1809364**	50
MSTBVA 2,5/13-G-5,08-LR	**1809377**	50
MSTBVA 2,5/14-G-5,08-LR	**1809380**	50
MSTBVA 2,5/15-G-5,08-LR	**1809393**	50
MSTBVA 2,5/16-G-5,08-LR	**1809403**	50

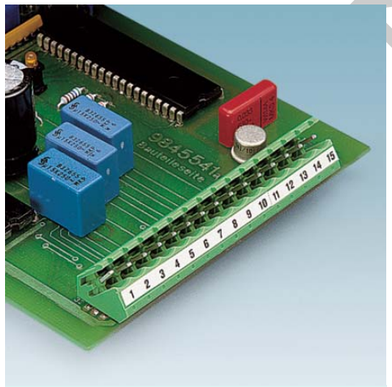
Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MSTBV 2,5/ 2-GEH-5,08	**1808463**	50
MSTBV 2,5/ 3-GEH-5,08	**1808476**	50
MSTBV 2,5/ 4-GEH-5,08	**1808489**	50
MSTBV 2,5/ 5-GEH-5,08	**1808492**	50
MSTBV 2,5/ 6-GEH-5,08	**1808502**	50
MSTBV 2,5/ 7-GEH-5,08	**1808515**	50
MSTBV 2,5/ 8-GEH-5,08	**1808528**	50
MSTBV 2,5/ 9-GEH-5,08	**1808531**	50
MSTBV 2,5/10-GEH-5,08	**1808544**	50
MSTBV 2,5/11-GEH-5,08	**1808557**	50
MSTBV 2,5/12-GEH-5,08	**1808560**	50
MSTBV 2,5/13-GEH-5,08	**1808573**	50
MSTBV 2,5/14-GEH-5,08	**1808586**	50
MSTBV 2,5/15-GEH-5,08	**1808599**	50
MSTBV 2,5/16-GEH-5,08	**1808609**	50

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Classic plug-in connector with 5.0 to 7.62 mm pitch
CLASSIC COMBICON connectors, pitches 5.0 or 5.08 mm

Single-level header for the wave soldering processes



- You can find higher numbers of positions under: **www.phoenixcontact.net/products**
- Plug-in direction 45° to the PCB
- Used in cases of restricted overhead space
- Designs with and without side panel

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 259.

Accessories

For all types	Type	Page
	Marker cards **SK 5/3,8 or SK 5,08/3,8**	798
	Keying section **CR-MSTB Order No. 1734401**	38
	Keying tab **MSTB-BL Order No. 1755477**	837

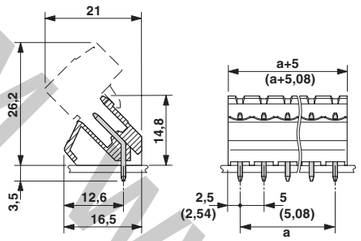


Without side panels, plug-in direction 45° to the PCB

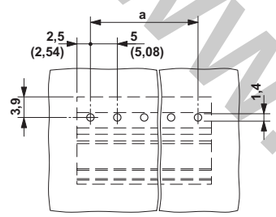


With side panels, plug-in direction 45° to the PCB

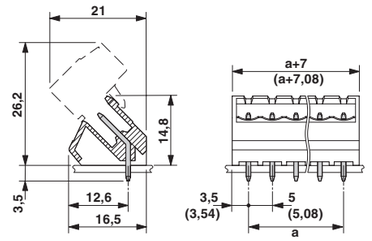
Dimensional drawing



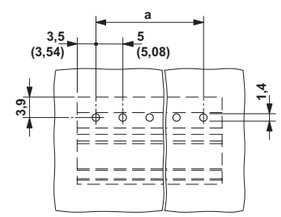
Drilling diagram



Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current	[A]	12		
Rated insulation voltage for pollution degree 2	[V]	320		
Pitch	[mm]	5 / 5.08		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250	320	400
Rated surge voltage	[kV]	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	15	-	10
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	10	-	10
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.4 / 1 x 1 mm		

No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00
5	20.00
6	25.00
7	30.00
8	35.00
9	40.00
10	45.00
11	50.00
12	55.00
13	60.00
14	65.00
15	70.00
16	75.00
2	5.08
3	10.16
4	15.24
5	20.32
6	25.40
7	30.48
8	35.56
9	40.64
10	45.72
11	50.80
12	55.88
13	60.96
14	66.04
15	71.12
16	76.20

Ordering data

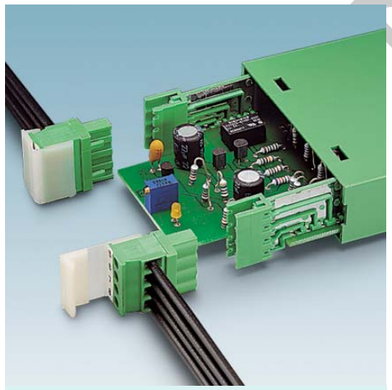
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
SMSTB 2,5/ 2-G	**1769230**	50
SMSTB 2,5/ 3-G	**1769243**	50
SMSTB 2,5/ 4-G	**1769256**	50
SMSTB 2,5/ 5-G	**1769269**	50
SMSTB 2,5/ 6-G	**1769272**	50
SMSTB 2,5/ 7-G	**1769285**	50
SMSTB 2,5/ 8-G	**1769298**	50
SMSTB 2,5/ 9-G	**1769308**	50
SMSTB 2,5/10-G	**1769311**	50
SMSTB 2,5/11-G	**1769324**	50
SMSTB 2,5/12-G	**1769337**	50
SMSTB 2,5/13-G	**1769340**	50
SMSTB 2,5/14-G	**1769353**	50
SMSTB 2,5/15-G	**1769366**	50
SMSTB 2,5/16-G	**1769379**	50
5.08 mm pitch, color: Green		
SMSTB 2,5/ 2-G-5,08	**1769463**	50
SMSTB 2,5/ 3-G-5,08	**1769476**	50
SMSTB 2,5/ 4-G-5,08	**1769489**	50
SMSTB 2,5/ 5-G-5,08	**1769492**	50
SMSTB 2,5/ 6-G-5,08	**1769502**	50
SMSTB 2,5/ 7-G-5,08	**1769515**	50
SMSTB 2,5/ 8-G-5,08	**1769528**	50
SMSTB 2,5/ 9-G-5,08	**1769531**	50
SMSTB 2,5/10-G-5,08	**1769544**	50
SMSTB 2,5/11-G-5,08	**1769557**	50
SMSTB 2,5/12-G-5,08	**1769560**	50
SMSTB 2,5/13-G-5,08	**1769573**	50
SMSTB 2,5/14-G-5,08	**1769586**	50
SMSTB 2,5/15-G-5,08	**1769599**	50
SMSTB 2,5/16-G-5,08	**1769609**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
SMSTBA 2,5/ 2-G	**1769803**	50
SMSTBA 2,5/ 3-G	**1769816**	50
SMSTBA 2,5/ 4-G	**1769829**	50
SMSTBA 2,5/ 5-G	**1769832**	50
SMSTBA 2,5/ 6-G	**1769845**	50
SMSTBA 2,5/ 7-G	**1769858**	50
SMSTBA 2,5/ 8-G	**1769861**	50
SMSTBA 2,5/ 9-G	**1769874**	50
SMSTBA 2,5/10-G	**1769887**	50
SMSTBA 2,5/11-G	**1769890**	50
SMSTBA 2,5/12-G	**1769900**	50
SMSTBA 2,5/13-G	**1769913**	50
SMSTBA 2,5/14-G	**1769926**	50
SMSTBA 2,5/15-G	**1769939**	50
SMSTBA 2,5/16-G	**1769942**	50
5.08 mm pitch, color: Green		
SMSTBA 2,5/ 2-G-5,08	**1767371**	50
SMSTBA 2,5/ 3-G-5,08	**1767384**	50
SMSTBA 2,5/ 4-G-5,08	**1767397**	50
SMSTBA 2,5/ 5-G-5,08	**1767407**	50
SMSTBA 2,5/ 6-G-5,08	**1767410**	50
SMSTBA 2,5/ 7-G-5,08	**1767423**	50
SMSTBA 2,5/ 8-G-5,08	**1767436**	50
SMSTBA 2,5/ 9-G-5,08	**1767449**	50
SMSTBA 2,5/10-G-5,08	**1767452**	50
SMSTBA 2,5/11-G-5,08	**1767465**	50
SMSTBA 2,5/12-G-5,08	**1767478**	50
SMSTBA 2,5/13-G-5,08	**1767481**	50
SMSTBA 2,5/14-G-5,08	**1767494**	50
SMSTBA 2,5/15-G-5,08	**1767504**	50
SMSTBA 2,5/16-G-5,08	**1767517**	50

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Orthogonal headers for wave soldering processes



– Space-saving header
– Header perpendicular (orthogonal) to the PCB

MSTBO 2,5/…-GL
– The PCB is to the left of the header

MSTBO 2,5/…-GR
– The PCB is to the right of the header

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 259.

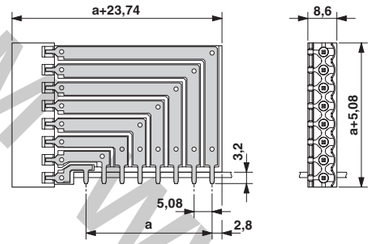
Accessories

For all types	Type	Page
	Keying section **CR-MSTB Order No. 1734401**	38
	Keying tab **MSTB-BL Order No. 1755477**	837



Pin strip leading off at a right angle "PCB on the left"

Dimensional drawing



Drilling diagram

Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		5.08 mm pitch, color: Green		
3	10.16	**MSTBO 2,5/ 3-GL-5,08**	**1850440**	50
4	15.24	**MSTBO 2,5/ 4-GL-5,08**	**1850453**	50
5	20.32	**MSTBO 2,5/ 5-GL-5,08**	**1850466**	50
6	25.40	**MSTBO 2,5/ 6-GL-5,08**	**1850479**	50
7	30.48	**MSTBO 2,5/ 7-GL-5,08**	**1850482**	50
8	35.56	**MSTBO 2,5/ 8-GL-5,08**	**1850495**	50

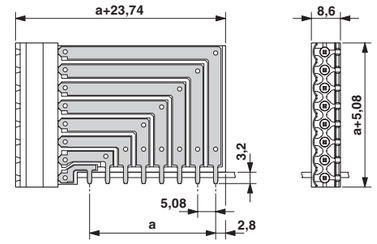
Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current	[A]	8		
Rated insulation voltage for pollution degree 2	[V]	320		
Pitch	[mm]	5.08		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250	320	630
Rated surge voltage	[kV]	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	250	-	300
Nominal current	[A]	8	-	8
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	6.5	-	6.5
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.3 / 1,2 x 0,32 mm		



Pin strip leading off at a right angle "PCB on the right"

Dimensional drawing



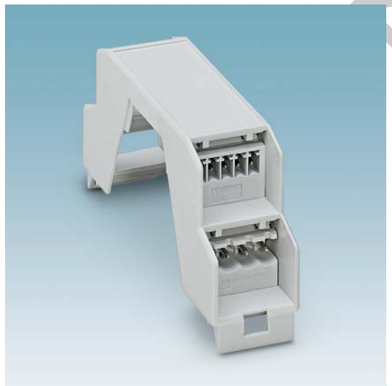
Drilling diagram

Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MSTBO 2,5/ 3-GR-5,08	**1847110**	50
MSTBO 2,5/ 4-GR-5,08	**1847123**	50
MSTBO 2,5/ 5-GR-5,08	**1847136**	50
MSTBO 2,5/ 6-GR-5,08	**1847149**	50
MSTBO 2,5/ 7-GR-5,08	**1847152**	50
MSTBO 2,5/ 8-GR-5,08	**1847165**	50

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Orthogonal headers for wave soldering processes



- Header for ME/ME MAX electronic housing
- Plug-in direction orthogonal to the PCB
- "Left“ and "right“ design
- Number of positions between 2 and 4
- Pitch 5 mm
- Connection cross section of up 2.5 mm²

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 259.

Accessories

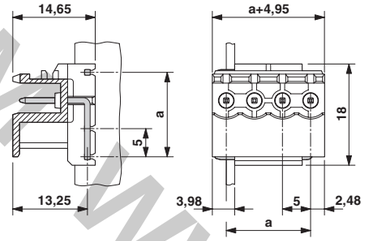
For all types	Type	Page
	Keying section **CR-MSTBO G1** **Order No.** **2199618**	38



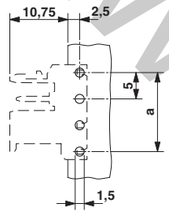


Pin strip leading off at a right angle “left”, color: green

Dimensional drawing



Drilling diagram



Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		COMBICON header, 5 mm pitch, color: green		
2	5.00	**MSTBO 2,5/ 2-G1L**	**1861057**	50
3	10.00	**MSTBO 2,5/ 3-G1L**	**1861028**	50
4	15.00	**MSTBO 2,5/ 4-G1L**	**1861060**	50
2	5.00			
3	10.00			
4	15.00			

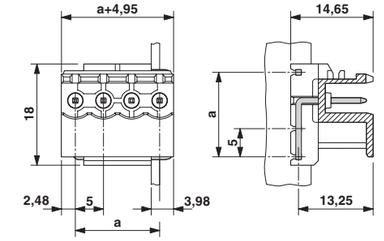
Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current	[A]	12		
Rated insulation voltage for pollution degree 2	[V]	320		
Pitch	[mm]	5		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250	320	400
Rated surge voltage	[kV]	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	12	-	10
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	10	-	10
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.4 / 1 x 1 mm		

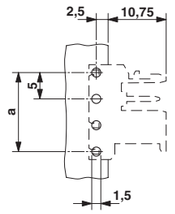


Pin strip leading off at a right angle “right”, color: green

Dimensional drawing



Drilling diagram



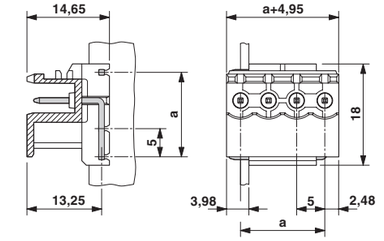
Ordering data

Type	Order No.	Pcs. / Pkt.
COMBICON header, right, 5 mm pitch, color: green		
MSTBO 2,5/ 2-G1R	**1861044**	50
MSTBO 2,5/ 3-G1R	**1861031**	50
MSTBO 2,5/ 4-G1R	**1861073**	50

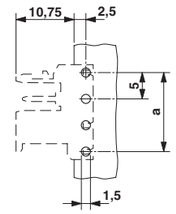


Pin strip leading off at a right angle “left”, color: gray

Dimensional drawing



Drilling diagram



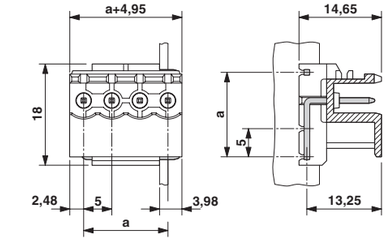
Ordering data

Type	Order No.	Pcs. / Pkt.
COMBICON header, 5 mm pitch, color: light gray		
MSTBO 2,5/ 2-G1L KMGY	**2854788**	50
MSTBO 2,5/ 3-G1L KMGY	**2853750**	50
MSTBO 2,5/ 4-G1L KMGY	**2907774**	50

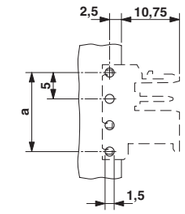


Pin strip leading off at a right angle “right”, color: gray

Dimensional drawing



Drilling diagram

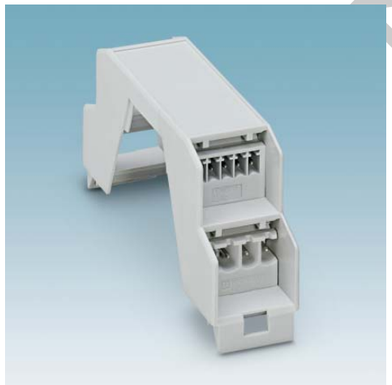


Ordering data

Type	Order No.	Pcs. / Pkt.
COMBICON header, right, 5 mm pitch, color: light gray		
MSTBO 2,5/ 2-G1R KMGY	**2854791**	50
MSTBO 2,5/ 3-G1R KMGY	**2853763**	50
MSTBO 2,5/ 4-G1R KMGY	**2907787**	50

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Orthogonal headers for wave soldering processes



- Header and connector for ME and ME MAX electronic housings
- Touch proof
- Plug-in direction orthogonal to the PCB
- Design version "left" and "right"
- Number of positions between 2 and 4
- Pitch 5 mm
- Connection cross section of up 2.5 mm²

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

[1]) Please observe the derating curves. Derating curves of further combination options on request.

Accessories

For all types	Type	Page
	Marker cards **SK 5/3,8**	798
Only for MSTBO 2,5...G1...		
	Keying section **CR-MSTBO G1** **Order No. 2199618**	38

Technical data

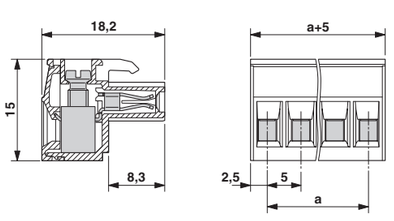
		MSTBT 2,5 HC/ ...-STP GY7035			MSTBO 2,5/ ...-G1PR GY7035			MSTBO 2,5/ ...-G1PL GY7035		
Technical data in accordance to IEC / DIN VDE										
Rated current / conductor cross section	[A] / [mm²]	16[1]) / 2.5			16			16		
Rated insulation voltage for pollution degree 2	[V]	320			320			320		
Pitch	[mm]	5			5			5		
Connection capacity										
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 2.5 / 0.2 - 2.5 / 24 - 12			- / - / -			- / - / -		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 2.5			-			-		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 2.5			-			-		
Multi-conductor connection capacity (two conductors with the same cross section)										
Solid / stranded	[mm²]	0.2 - 1 / 0.2 - 1.5			- / -			- / -		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 1			-			-		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 1.5			-			-		
Insulation coordination										
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250	320	630	250	320	400	250	320	400
Rated surge voltage	[kV]	4	4	4	4	4	4	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	300	-	300	300	-	300	300	-	300
Nominal current	[A]	16	-	15	15	-	15	15	-	15
Connection capacity AWG	AWG	30 - 12	-	30 - 12	-	-	-	-	-	-
Approval data (CSA)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-	-	-	-
General data										
Stripping length	[mm]	7			-			-		
Screw thread		M3			-			-		
Tightening torque	[Nm]	0.5 - 0.6			-			-		
Type of insulation material / insulation material group		PA / I			PA / I			PA / I		
Inflammability class according to UL 94		V0			V0			V0		

No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00



Connector for touch-proof header, color: gray, pitch 5 mm

Dimensional drawing



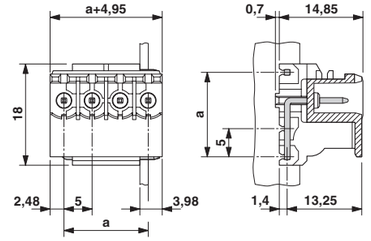
Ordering data

Type	Order No.	Pcs. / Pkt.
COMBICON screw connector, pitch 5 mm, for touch-proof header, color: gray		
MSTBT 2,5 HC/ 2-STP GY7035	**2200334**	50
MSTBT 2,5 HC/ 3-STP GY7035	**2200333**	50
MSTBT 2,5 HC/ 4-STP GY7035	**2200332**	50

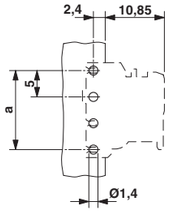


Touch-proof, with "right" pin strip leading off at a right angle, color: gray

Dimensional drawing



Drilling diagram

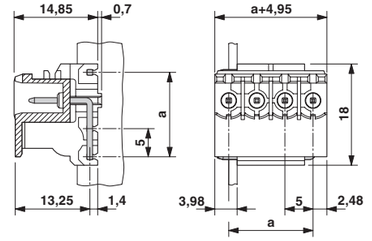


Ordering data

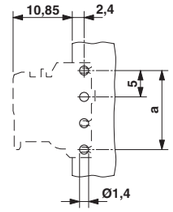
Type	Order No.	Pcs. / Pkt.
COMBICON header,, pitch 5 mm, touch-proof, color: light gray		
MSTBO 2,5/ 2-G1PR GY7035	**2200331**	50
MSTBO 2,5/ 3-G1PR GY7035	**2200329**	50
MSTBO 2,5/ 4-G1PR GY7035	**2200326**	50

Touch-proof, with "left" pin strip leading off at a right angle, color: gray

Dimensional drawing



Drilling diagram

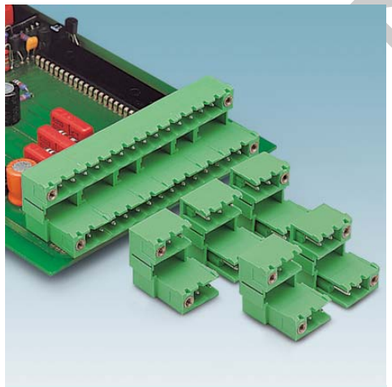


Ordering data

Type	Order No.	Pcs. / Pkt.
COMBICON header,, pitch 5 mm, touch-proof, color: light gray		
MSTBO 2,5/ 2-G1PL GY7035	**2200330**	50
MSTBO 2,5/ 3-G1PL GY7035	**2200328**	50
MSTBO 2,5/ 4-G1PL GY7035	**2200325**	50

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Double-level header for the wave soldering processes



- Double-level header with offset levels
- Plug-in direction parallel to the PCB
- Improved view and accessibility to the lower level
- High contact density
- Versions with and without side panel, as well as with and without screw flange
- Ejectors as an add-on for high-pos. connectors must be mounted on the left and the right side
- Versions with right and left side panel and higher numbers of positions up to 20-pos. can be found at: **www.phoenixcontact.net/products**

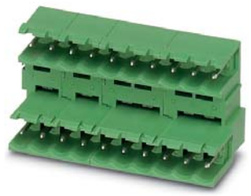
Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

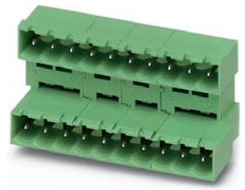
COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 259.

Accessories

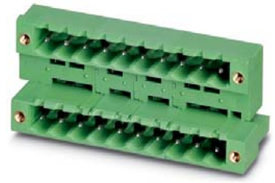
For all types	Type	Page
	Marker cards **SK 5/3,8 or SK 5,08/3,8**	798
	Keying section **CR-MSTB Order No. 1734401**	38
	Keying tab **MSTB-BL Order No. 1755477**	837
Only for MDSTB 2,5/...-G		
	Side element for MDSTB(V); width 2.54 mm **MDSTB-SE Order No. 1786679**	
	Ejectors for high-pos. connectors **MDSTB 2,5-AS Order No. 1806588**	



Without side panels, with offset levels, plug-in direction parallel to the PCB

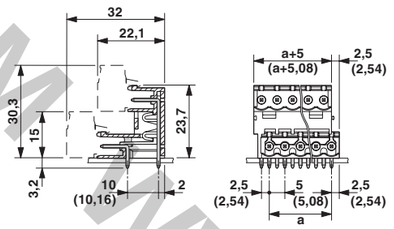


With side panels and offset levels, plug-in direction parallel to the PCB

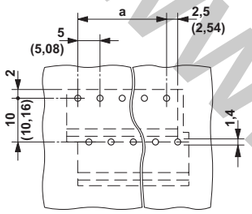


With threaded flange and offset levels, plug-in direction parallel to the PCB

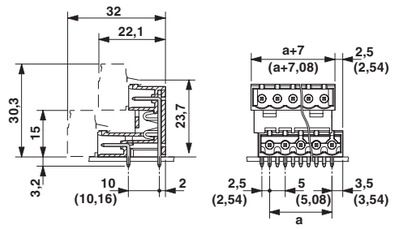
Dimensional drawing



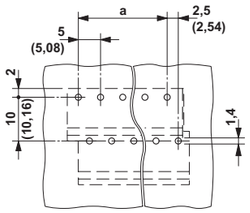
Drilling diagram



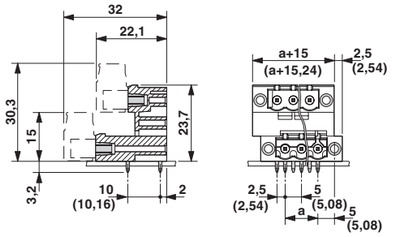
Dimensional drawing



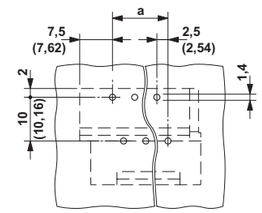
Drilling diagram



Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current	[A]	10		
Rated insulation voltage for pollution degree 2	[V]	320		
Pitch	[mm]	5 / 5.08		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250	320	400
Rated surge voltage	[kV]	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	15	-	15
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	10	-	10
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		PBT / IIIa		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.4 / 1 x 1 mm		

Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		5.0 mm pitch, color: green		
2	5.00	**MDSTB 2,5/ 2-G**	**1762046**	50
3	10.00	**MDSTB 2,5/ 3-G**	**1762059**	50
4	20.00	**MDSTB 2,5/ 4-G**	**1846386**	50
5	20.00	**MDSTB 2,5/ 5-G**	**1837133**	50
6	25.00	**MDSTB 2,5/ 6-G**	**1846409**	50
7	30.00	**MDSTB 2,5/ 7-G**	**1846412**	50
8	35.00	**MDSTB 2,5/ 8-G**	**1846425**	50
9	40.00	**MDSTB 2,5/ 9-G**	**1846438**	50
10	45.00	**MDSTB 2,5/10-G**	**1846441**	50
11	50.00	**MDSTB 2,5/11-G**	**1846454**	50
12	55.00	**MDSTB 2,5/12-G**	**1846467**	50
		5.08 mm pitch, color: Green		
2	5.08	**MDSTB 2,5/ 2-G-5,08**	**1762062**	50
3	10.16	**MDSTB 2,5/ 3-G-5,08**	**1762075**	50
4	15.24	**MDSTB 2,5/ 4-G-5,08**	**1842539**	50
5	20.32	**MDSTB 2,5/ 5-G-5,08**	**1842542**	50
6	25.40	**MDSTB 2,5/ 6-G-5,08**	**1844977**	50
7	30.48	**MDSTB 2,5/ 7-G-5,08**	**1842568**	50
8	35.56	**MDSTB 2,5/ 8-G-5,08**	**1840052**	50
9	40.64	**MDSTB 2,5/ 9-G-5,08**	**1842584**	50
10	45.72	**MDSTB 2,5/10-G-5,08**	**1842597**	50
11	50.80	**MDSTB 2,5/11-G-5,08**	**1842607**	50
12	55.88	**MDSTB 2,5/12-G-5,08**	**1842610**	50

Ordering data

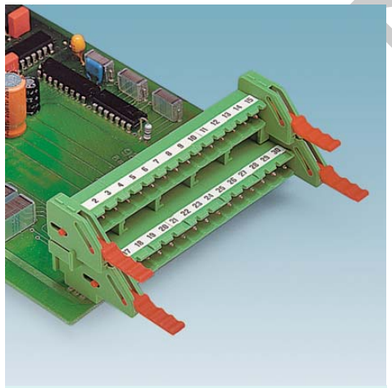
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MDSTBA 2,5/ 2-G	**1846519**	50
MDSTBA 2,5/ 3-G	**1846522**	50
MDSTBA 2,5/ 4-G	**1846535**	50
MDSTBA 2,5/ 5-G	**1846548**	50
MDSTBA 2,5/ 6-G	**1846551**	50
MDSTBA 2,5/ 7-G	**1846564**	50
MDSTBA 2,5/ 8-G	**1846577**	50
MDSTBA 2,5/ 9-G	**1846580**	50
MDSTBA 2,5/10-G	**1846593**	50
MDSTBA 2,5/11-G	**1846603**	50
MDSTBA 2,5/12-G	**1846616**	50
5.08 mm pitch, color: Green		
MDSTBA 2,5/ 2-G-5,08	**1842063**	50
MDSTBA 2,5/ 3-G-5,08	**1842076**	50
MDSTBA 2,5/ 4-G-5,08	**1842089**	50
MDSTBA 2,5/ 5-G-5,08	**1842092**	50
MDSTBA 2,5/ 6-G-5,08	**1842102**	50
MDSTBA 2,5/ 7-G-5,08	**1842115**	50
MDSTBA 2,5/ 8-G-5,08	**1842128**	50
MDSTBA 2,5/ 9-G-5,08	**1842131**	50
MDSTBA 2,5/10-G-5,08	**1842144**	50
MDSTBA 2,5/11-G-5,08	**1842157**	50
MDSTBA 2,5/12-G-5,08	**1842160**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MDSTB 2,5/ 2-GF	**1846690**	50
MDSTB 2,5/ 3-GF	**1846700**	50
MDSTB 2,5/ 4-GF	**1846713**	50
MDSTB 2,5/ 5-GF	**1846726**	50
MDSTB 2,5/ 6-GF	**1846739**	50
MDSTB 2,5/ 7-GF	**1846742**	50
MDSTB 2,5/ 8-GF	**1846755**	50
MDSTB 2,5/ 9-GF	**1846768**	50
MDSTB 2,5/10-GF	**1846771**	50
MDSTB 2,5/11-GF	**1846784**	50
MDSTB 2,5/12-GF	**1846797**	50
5.08 mm pitch, color: Green		
MDSTB 2,5/ 2-GF-5,08	**1842364**	50
MDSTB 2,5/ 3-GF-5,08	**1842377**	50
MDSTB 2,5/ 4-GF-5,08	**1842380**	50
MDSTB 2,5/ 5-GF-5,08	**1842393**	50
MDSTB 2,5/ 6-GF-5,08	**1842403**	50
MDSTB 2,5/ 7-GF-5,08	**1842416**	50
MDSTB 2,5/ 8-GF-5,08	**1842429**	50
MDSTB 2,5/ 9-GF-5,08	**1842432**	50
MDSTB 2,5/10-GF-5,08	**1842445**	50
MDSTB 2,5/11-GF-5,08	**1842458**	50
MDSTB 2,5/12-GF-5,08	**1842461**	50

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Double-level header for the wave soldering processes



- MDSTBW 2,5/...-G with stand-off
- Ejectors as an add-on for high-pos. connectors must be mounted on the left and the right side
- G1-types without a level offset, for flush installation in the front of the devices
- Horizontal and vertical design
- Higher numbers of positions up to 20-pos. can be found at: **www.phoenixcontact.net/products**

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 259.

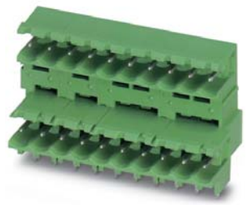
Accessories

For all types	Type	Page
	Marker cards **SK 5/3,8 or SK 5,08/3,8**	798
	Keying section **CR-MSTB Order No. 1734401**	38
	Keying tab **MSTB-BL Order No. 1755477**	837
Only for MDSTBW 2,5/...-G		
	Ejectors **MDSTBW 2,5-AS Order No. 1767766**	

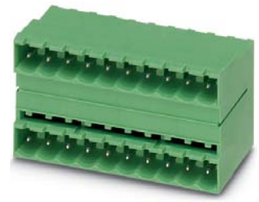
Technical data

		MDSTBW 2,5/ ...-G			MDSTB 2,5/ ...-G1			MDSTBV 2,5/...-G1		
Technical data in accordance to IEC / DIN VDE										
Rated current	[A]	10			10			10		
Rated insulation voltage for pollution degree 2	[V]	320			320			320		
Pitch	[mm]	5 / 5.08			5 / 5.08			5 / 5.08		
Insulation coordination										
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250	320	400	250	320	630	250	320	630
Rated surge voltage	[kV]	4	4	4	4	4	4	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	300	-	300	300	-	300	300	-	300
Nominal current	[A]	15	-	15	15	-	15	12	-	12
Connection capacity AWG	AWG	-	-	-	-	-	-	-	-	-
Approval data (CSA)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	300	-	300	300	-	300	300	-	300
Nominal current	[A]	10	-	10	10	-	10	10	-	10
Connection capacity AWG	AWG	-	-	-	-	-	-	-	-	-
General data										
Type of insulation material / insulation material group		PBT / IIIa			PA / I			PA / I		
Inflammability class according to UL 94		V0			V0			V0		
Drill hole diameter / pin dimensions	[mm]	1.4 / 1 x 1 mm			1.4 / 1 x 1 mm			1.4 / 1 x 1 mm		

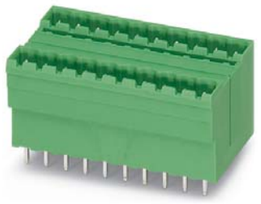
No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00
5	20.00
6	25.00
7	30.00
8	35.00
9	40.00
10	45.00
11	50.00
12	55.00
13	60.00
14	65.00
15	70.00
16	75.00
2	5.08
3	10.16
4	15.24
5	20.32
6	25.40
7	30.48
8	35.56
9	40.64
10	45.72
11	50.80
12	55.88
13	60.96
14	66.04
15	71.12
16	76.20



With stand-off, without side panels, with offset levels, plug-in direction parallel to the PCB

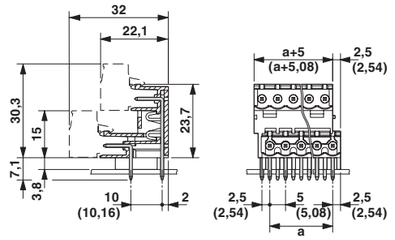


With side panels, without offset levels, plug-in direction parallel to the PCB

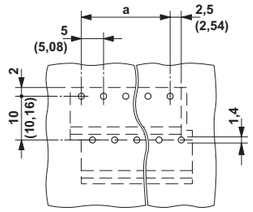


With side panels, without offset levels, plug-in direction vertical to the PCB

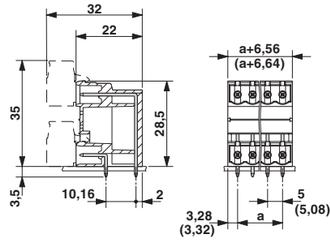
Dimensional drawing



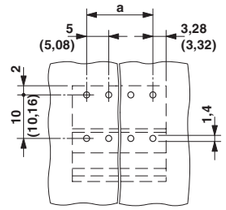
Drilling diagram



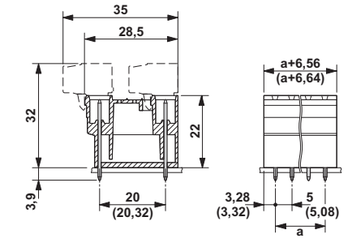
Dimensional drawing



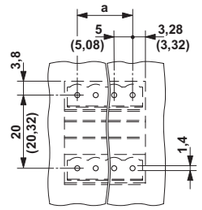
Drilling diagram



Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MDSTBW 2,5/ 2-G	**1802443**	50
MDSTBW 2,5/ 3-G	**1802427**	50
MDSTBW 2,5/ 4-G	**1846836**	50
MDSTBW 2,5/ 5-G	**1846849**	50
MDSTBW 2,5/ 6-G	**1846852**	50
MDSTBW 2,5/ 7-G	**1846865**	50
MDSTBW 2,5/ 8-G	**1846878**	50
MDSTBW 2,5/ 9-G	**1846881**	50
MDSTBW 2,5/10-G	**1846894**	50
MDSTBW 2,5/11-G	**1846904**	50
MDSTBW 2,5/12-G	**1846917**	50
5.08 mm pitch, color: Green		
MDSTBW 2,5/ 2-G-5,08	**1802430**	50
MDSTBW 2,5/ 3-G-5,08	**1802414**	50
MDSTBW 2,5/ 4-G-5,08	**1842238**	50
MDSTBW 2,5/ 5-G-5,08	**1840010**	50
MDSTBW 2,5/ 6-G-5,08	**1842254**	50
MDSTBW 2,5/ 7-G-5,08	**1842267**	50
MDSTBW 2,5/ 8-G-5,08	**1842270**	50
MDSTBW 2,5/ 9-G-5,08	**1842283**	50
MDSTBW 2,5/10-G-5,08	**1842296**	50
MDSTBW 2,5/11-G-5,08	**1842306**	50
MDSTBW 2,5/12-G-5,08	**1842319**	50

Ordering data

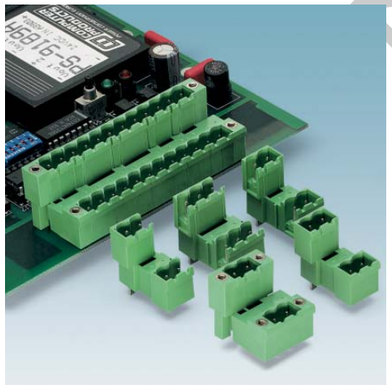
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MDSTB 2,5/ 3-G1	**1736687**	50
MDSTB 2,5/ 4-G1	**1736690**	50
MDSTB 2,5/ 6-G1	**1762732**	50
MDSTB 2,5/ 7-G1	**1762745**	50
MDSTB 2,5/ 8-G1	**1762758**	50
MDSTB 2,5/ 9-G1	**1762761**	50
MDSTB 2,5/10-G1	**1762774**	50
MDSTB 2,5/11-G1	**1762787**	50
MDSTB 2,5/12-G1	**1762790**	50
MDSTB 2,5/13-G1	**1762800**	50
MDSTB 2,5/14-G1	**1762813**	50
MDSTB 2,5/15-G1	**1762826**	50
MDSTB 2,5/16-G1	**1762839**	50
5.08 mm pitch, color: Green		
MDSTB 2,5/ 3-G1-5,08	**1762376**	50
MDSTB 2,5/ 4-G1-5,08	**1736713**	50
MDSTB 2,5/ 5-G1-5,08	**1938951**	50
MDSTB 2,5/ 6-G1-5,08	**1762415**	50
MDSTB 2,5/ 7-G1-5,08	**1762428**	50
MDSTB 2,5/ 8-G1-5,08	**1762431**	50
MDSTB 2,5/ 9-G1-5,08	**1762444**	50
MDSTB 2,5/10-G1-5,08	**1762457**	50
MDSTB 2,5/11-G1-5,08	**1762460**	50
MDSTB 2,5/12-G1-5,08	**1762703**	50
MDSTB 2,5/13-G1-5,08	**1762473**	50
MDSTB 2,5/14-G1-5,08	**1762486**	50
MDSTB 2,5/15-G1-5,08	**1762499**	50
MDSTB 2,5/16-G1-5,08	**1762509**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MDSTBV 2,5/ 3-G1	**1736726**	50
MDSTBV 2,5/ 4-G1	**1736739**	50
MDSTBV 2,5/ 6-G1	**1762884**	50
MDSTBV 2,5/ 7-G1	**1762897**	50
MDSTBV 2,5/ 8-G1	**1762907**	50
MDSTBV 2,5/ 9-G1	**1762910**	50
MDSTBV 2,5/10-G1	**1762923**	50
MDSTBV 2,5/11-G1	**1762936**	50
MDSTBV 2,5/12-G1	**1762949**	50
MDSTBV 2,5/13-G1	**1762952**	50
MDSTBV 2,5/14-G1	**1762965**	50
MDSTBV 2,5/15-G1	**1762978**	50
MDSTBV 2,5/16-G1	**1762981**	50
5.08 mm pitch, color: Green		
MDSTBV 2,5/ 3-G1-5,08	**1736742**	50
MDSTBV 2,5/ 4-G1-5,08	**1736755**	50
MDSTBV 2,5/ 6-G1-5,08	**1762541**	50
MDSTBV 2,5/ 7-G1-5,08	**1762554**	50
MDSTBV 2,5/ 8-G1-5,08	**1762567**	50
MDSTBV 2,5/ 9-G1-5,08	**1762570**	50
MDSTBV 2,5/10-G1-5,08	**1762583**	50
MDSTBV 2,5/11-G1-5,08	**1762596**	50
MDSTBV 2,5/12-G1-5,08	**1762606**	50
MDSTBV 2,5/13-G1-5,08	**1762619**	50
MDSTBV 2,5/14-G1-5,08	**1762622**	50
MDSTBV 2,5/15-G1-5,08	**1762635**	50
MDSTBV 2,5/16-G1-5,08	**1762648**	50

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Double-level header for the wave soldering processes



- Double-level header with offset levels
- Plug-in direction vertical to the PCB
- Improved view and accessibility to the lower level
- High contact density
- Versions with and without side panel, as well as with and without screw flange
- For versions with side panel on the right or left, visit: **www.phoenixcontact.net/products**

Notes:

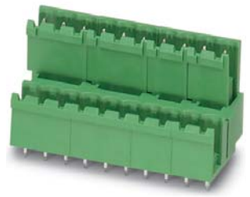
In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 259.

Mounting screws for base element with threaded flange (....GF...): sheet metal screw ISO 1481-ST 2,2x6,5 C or ISO 7049-ST 2,2x6,5 C. Screw connection only permitted prior to soldering.

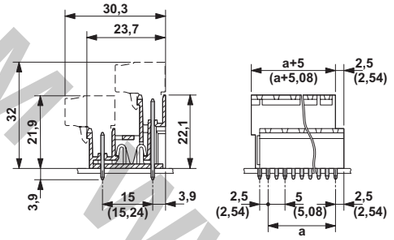
Accessories

For all types	Type	Page
	Marker cards **SK 5/3,8 or SK 5,08/3,8**	798
	Keying section **CR-MSTB Order No. 1734401**	38
	Keying tab **MSTB-BL Order No. 1755477**	837
Only for MDSTBV 2,5/...-G		
	Side element for MDSTB(V); width 2.54 mm **MDSTB-SE Order No. 1786679**	

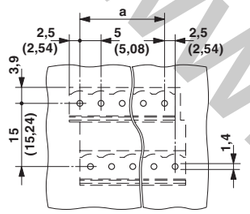


Without side panels, with offset levels, plug-in direction vertical to the PCB

Dimensional drawing



Drilling diagram



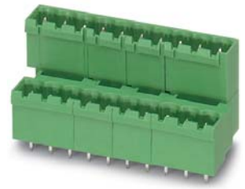
Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current	[A]	10		
Rated insulation voltage for pollution degree 2	[V]	320		
Pitch	[mm]	5 / 5.08		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250	320	400
Rated surge voltage	[kV]	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	12	-	12
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	10	-	10
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		PBT / IIIa		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.4 / 1 x 1 mm		

Ordering data

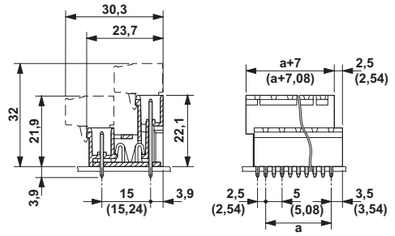
No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		5.0 mm pitch, color: green		
2	5.00	**MDSTBV 2,5/ 2-G**	**1763032**	50
3	10.00	**MDSTBV 2,5/ 3-G**	**1763045**	50
4	15.00	**MDSTBV 2,5/ 4-G**	**1845950**	50
5	20.00	**MDSTBV 2,5/ 5-G**	**1845963**	50
6	25.00	**MDSTBV 2,5/ 6-G**	**1845976**	50
7	30.00	**MDSTBV 2,5/ 7-G**	**1845989**	50
8	35.00	**MDSTBV 2,5/ 8-G**	**1845992**	50
9	40.00	**MDSTBV 2,5/ 9-G**	**1846001**	50
10	45.00	**MDSTBV 2,5/10-G**	**1846014**	50
11	50.00	**MDSTBV 2,5/11-G**	**1846027**	50
12	55.00	**MDSTBV 2,5/12-G**	**1846030**	50
		5.08 mm pitch, color: Green		
2	5.08	**MDSTBV 2,5/ 2-G-5,08**	**1763074**	50
3	10.16	**MDSTBV 2,5/ 3-G-5,08**	**1763087**	50
4	15.24	**MDSTBV 2,5/ 4-G-5,08**	**1845507**	50
5	20.32	**MDSTBV 2,5/ 5-G-5,08**	**1762004**	50
6	25.40	**MDSTBV 2,5/ 6-G-5,08**	**1845523**	50
7	30.48	**MDSTBV 2,5/ 7-G-5,08**	**1845536**	50
8	35.56	**MDSTBV 2,5/ 8-G-5,08**	**1845549**	50
9	40.64	**MDSTBV 2,5/ 9-G-5,08**	**1845552**	50
10	45.72	**MDSTBV 2,5/10-G-5,08**	**1845565**	50
11	50.80	**MDSTBV 2,5/11-G-5,08**	**1845578**	50
12	55.88	**MDSTBV 2,5/12-G-5,08**	**1845581**	50

Classic plug-in connector with 5.0 to 7.62 mm pitch
CLASSIC COMBICON connectors, pitches 5.0 or 5.08 mm

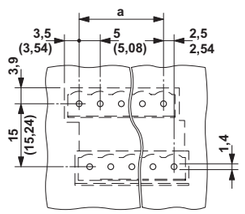


With side panels and offset levels, plug-in direction vertical to the PCB

Dimensional drawing



Drilling diagram



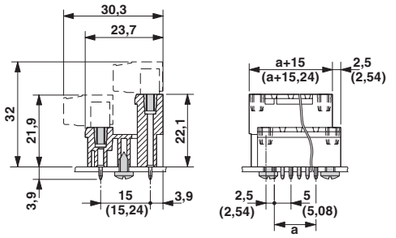
Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MDSTBVA 2,5/ 2-G	**1845785**	50
MDSTBVA 2,5/ 3-G	**1845798**	50
MDSTBVA 2,5/ 4-G	**1845808**	50
MDSTBVA 2,5/ 5-G	**1845811**	50
MDSTBVA 2,5/ 6-G	**1845824**	50
MDSTBVA 2,5/ 7-G	**1845837**	50
MDSTBVA 2,5/ 8-G	**1845840**	50
MDSTBVA 2,5/ 9-G	**1845853**	50
MDSTBVA 2,5/10-G	**1845866**	50
MDSTBVA 2,5/11-G	**1845879**	50
MDSTBVA 2,5/12-G	**1845882**	50
5.08 mm pitch, color: Green		
MDSTBVA 2,5/ 2-G-5,08	**1845332**	50
MDSTBVA 2,5/ 3-G-5,08	**1845345**	50
MDSTBVA 2,5/ 4-G-5,08	**1845358**	50
MDSTBVA 2,5/ 5-G-5,08	**1845361**	50
MDSTBVA 2,5/ 6-G-5,08	**1845374**	50
MDSTBVA 2,5/ 7-G-5,08	**1845387**	50
MDSTBVA 2,5/ 8-G-5,08	**1845390**	50
MDSTBVA 2,5/ 9-G-5,08	**1845400**	50
MDSTBVA 2,5/10-G-5,08	**1845413**	50
MDSTBVA 2,5/11-G-5,08	**1845426**	50
MDSTBVA 2,5/12-G-5,08	**1845439**	50

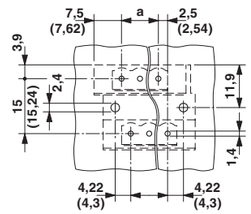


With threaded flange and offset levels, plug-in direction vertical to the PCB

Dimensional drawing



Drilling diagram

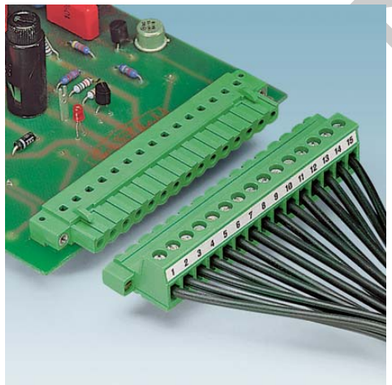


Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MDSTBV 2,5/ 2-GF	**1846085**	50
MDSTBV 2,5/ 3-GF	**1846098**	50
MDSTBV 2,5/ 4-GF	**1846108**	50
MDSTBV 2,5/ 5-GF	**1846111**	50
MDSTBV 2,5/ 6-GF	**1846124**	50
MDSTBV 2,5/ 7-GF	**1846137**	50
MDSTBV 2,5/ 8-GF	**1846140**	50
MDSTBV 2,5/ 9-GF	**1846153**	50
MDSTBV 2,5/10-GF	**1846166**	50
MDSTBV 2,5/11-GF	**1846179**	50
MDSTBV 2,5/12-GF	**1846182**	50
5.08 mm pitch, color: Green		
MDSTBV 2,5/ 2-GF-5,08	**1845633**	50
MDSTBV 2,5/ 3-GF-5,08	**1845646**	50
MDSTBV 2,5/ 4-GF-5,08	**1845659**	50
MDSTBV 2,5/ 5-GF-5,08	**1845662**	50
MDSTBV 2,5/ 6-GF-5,08	**1845675**	50
MDSTBV 2,5/ 7-GF-5,08	**1845688**	50
MDSTBV 2,5/ 8-GF-5,08	**1845691**	50
MDSTBV 2,5/ 9-GF-5,08	**1845701**	50
MDSTBV 2,5/10-GF-5,08	**1845714**	50
MDSTBV 2,5/11-GF-5,08	**1845727**	50
MDSTBV 2,5/12-GF-5,08	**1845730**	50

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Inverted header for the wave soldering processes



- Use in contact protected applications
- Horizontal and vertical design
- Versions with and without a threaded flange
- Pairs of guide rails can be used as a 90° board to board connection
- Combination with MSTB 2,5 headers for primary/secondary/PCB connection
- Clear separation of PCB inputs/outputs
- Higher numbers of positions up to 24-pos. can be found at: **www.phoenixcontact.net/products**
- For various combination options with the MSTB 2,5 plug-in system, refer to page 34

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

The inverted contact system is explained on page 34

Dimensional drawing of FLRP-ICV and PCB cutout can be found on page 838.

Mounting screws for base element with threaded flange (....GF...): sheet metal screw ISO 1481-ST 2,2x6,5 C or ISO 7049-ST 2,2x6,5 C. Screw connection only permitted prior to soldering.

Accessories

For all types	Type	Page
	Keying profile **CP-MSTB Order No. 1734634**	38
	Reducing plug **RPS Order No. 0201647**	831
	Test plug **MPS**	831
	Marker cards **SK 5,08/3,8**	798
Only for ICV 2,5/...-G-5,08		
	Pair of guide rails for a PCB **FLRP-ICV 80 Order No. 1808353**	837



Plug-in direction parallel to the PCB



With threaded flange, plug-in direction parallel to the PCB

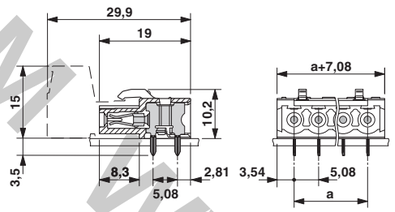


Plug-in direction vertical to the PCB

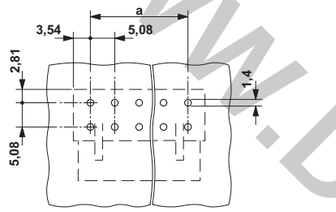


With threaded flange, plug-in direction vertical to the PCB

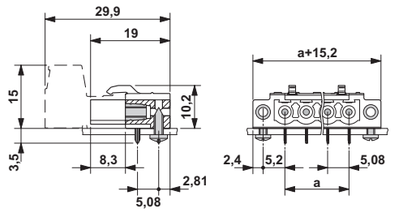
Dimensional drawing



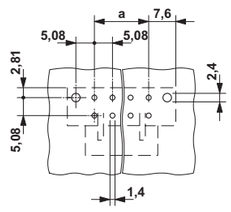
Drilling diagram



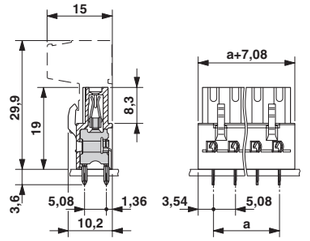
Dimensional drawing



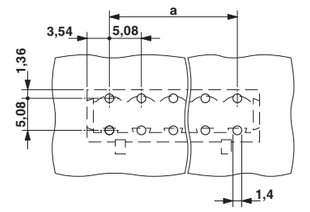
Drilling diagram



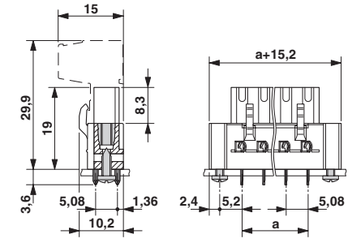
Dimensional drawing



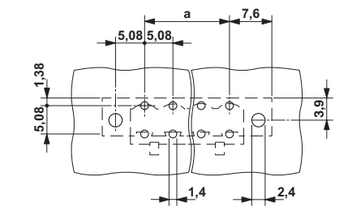
Drilling diagram



Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current	[A]	12		
Rated insulation voltage for pollution degree 2	[V]	320		
Pitch	[mm]	5.08		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	320	320	630
Rated surge voltage	[kV]	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	250	-	300
Nominal current	[A]	12	-	10
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	10	-	10
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.4 / 1,2 x 0,5		

Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		5.08 mm pitch, color: Green		
2	5.08	**IC 2,5/ 2-G-5,08**	**1786404**	50
3	10.16	**IC 2,5/ 3-G-5,08**	**1786417**	50
4	15.24	**IC 2,5/ 4-G-5,08**	**1786420**	50
5	20.32	**IC 2,5/ 5-G-5,08**	**1786433**	50
6	25.40	**IC 2,5/ 6-G-5,08**	**1786446**	50
7	30.48	**IC 2,5/ 7-G-5,08**	**1786459**	50
8	35.56	**IC 2,5/ 8-G-5,08**	**1786462**	50
9	40.64	**IC 2,5/ 9-G-5,08**	**1786475**	50
10	45.72	**IC 2,5/10-G-5,08**	**1786488**	50
11	50.80	**IC 2,5/11-G-5,08**	**1786491**	50
12	55.88	**IC 2,5/12-G-5,08**	**1786501**	50
13	60.96	**IC 2,5/13-G-5,08**	**1786514**	50
14	66.04	**IC 2,5/14-G-5,08**	**1786527**	50
15	71.12	**IC 2,5/15-G-5,08**	**1786530**	50
16	76.20	**IC 2,5/16-G-5,08**	**1786543**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
IC 2,5/ 2-GF-5,08	**1825129**	50
IC 2,5/ 3-GF-5,08	**1825132**	50
IC 2,5/ 4-GF-5,08	**1825145**	50
IC 2,5/ 5-GF-5,08	**1825158**	50
IC 2,5/ 6-GF-5,08	**1825161**	50
IC 2,5/ 7-GF-5,08	**1825174**	50
IC 2,5/ 8-GF-5,08	**1825187**	50
IC 2,5/ 9-GF-5,08	**1825190**	50
IC 2,5/10-GF-5,08	**1825200**	50
IC 2,5/11-GF-5,08	**1825213**	50
IC 2,5/12-GF-5,08	**1825226**	50
IC 2,5/13-GF-5,08	**1825239**	50
IC 2,5/14-GF-5,08	**1825242**	50
IC 2,5/15-GF-5,08	**1825255**	50
IC 2,5/16-GF-5,08	**1825268**	50

Ordering data

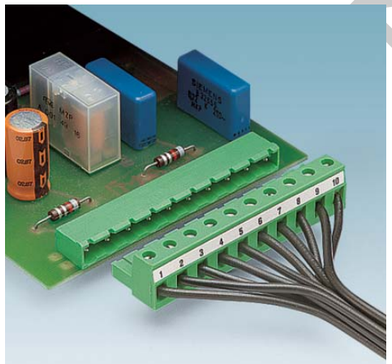
Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
ICV 2,5/ 2-G-5,08	**1785942**	50
ICV 2,5/ 3-G-5,08	**1785955**	50
ICV 2,5/ 4-G-5,08	**1785968**	50
ICV 2,5/ 5-G-5,08	**1785971**	50
ICV 2,5/ 6-G-5,08	**1785984**	50
ICV 2,5/ 7-G-5,08	**1785997**	50
ICV 2,5/ 8-G-5,08	**1786006**	50
ICV 2,5/ 9-G-5,08	**1786019**	50
ICV 2,5/10-G-5,08	**1786022**	50
ICV 2,5/11-G-5,08	**1786035**	50
ICV 2,5/12-G-5,08	**1786048**	50
ICV 2,5/13-G-5,08	**1786051**	50
ICV 2,5/14-G-5,08	**1786064**	50
ICV 2,5/15-G-5,08	**1786077**	50
ICV 2,5/16-G-5,08	**1786080**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
ICV 2,5/ 2-GF-5,08	**1825695**	50
ICV 2,5/ 3-GF-5,08	**1825705**	50
ICV 2,5/ 4-GF-5,08	**1825718**	50
ICV 2,5/ 5-GF-5,08	**1825721**	50
ICV 2,5/ 6-GF-5,08	**1825734**	50
ICV 2,5/ 7-GF-5,08	**1825747**	50
ICV 2,5/ 8-GF-5,08	**1825750**	50
ICV 2,5/ 9-GF-5,08	**1825763**	50
ICV 2,5/10-GF-5,08	**1825776**	50
ICV 2,5/11-GF-5,08	**1825789**	50
ICV 2,5/12-GF-5,08	**1825792**	50
ICV 2,5/13-GF-5,08	**1825802**	50
ICV 2,5/14-GF-5,08	**1825815**	50
ICV 2,5/15-GF-5,08	**1825828**	50
ICV 2,5/16-GF-5,08	**1825831**	50

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Connector with a screw connection



- Plug components for 630 V applications (III/2)
- Plug-in direction parallel to the conductor axis
- Versions with and without a screw flange
- FRONT-GMSTB 2,5 connector, with front screw connection

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 259.

The maximum torque for the screw flange is 0.3 Nm.

[1]) Please observe the derating curves. Derating curves of further combination options on request.



Connector with screw connection



With screw flange



With front screw connection

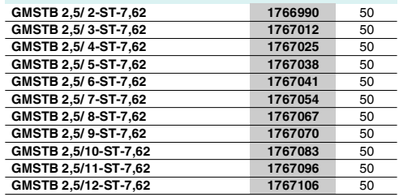


With front screw connection and screw flange

Accessories

For all types	Type	Page
	Marker cards **SK 7,5/3,8 or SK 7,62/3,8**	799
	Keying profile **CP-MSTB Order No. 1734634**	38
	Screwdriver **SZS 0,6 x 3,5 Order No. 1205053**	
Only for FRONT-GMSTB 2,5/...-...		
	Pullout aid for connectors arranged one after the other, width: 30 mm **FRONT-MSTB-EW Order No. 1763058**	

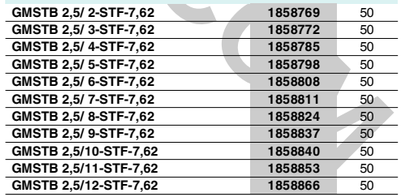
Dimensional drawing



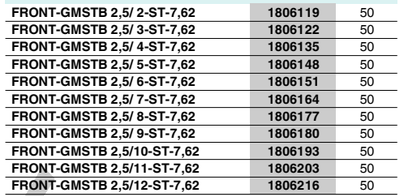
Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 2.5 mm²
Reduction factor = 0.8
Number of positions = see diagram

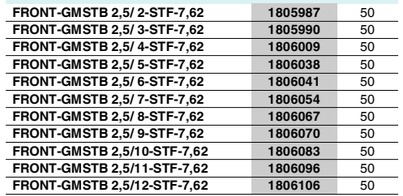
Dimensional drawing



Dimensional drawing

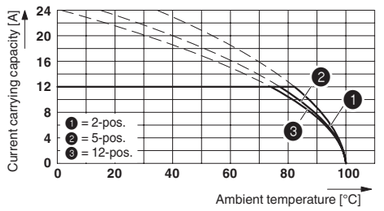


Dimensional drawing

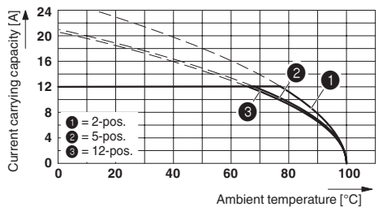


Representative derating curves of the above-mentioned plugs

Type: GMSTB 2,5/...-ST-7,62 with GMSTBA 2,5/...-G-7,62



Type: FRONT-GMSTB 2,5/...-STF-7,62 with GMSTB 2,5/...-G-7,62



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	12[1]) / 2.5		
Rated insulation voltage for pollution degree 2	[V]	630		
Pitch	[mm]	7.5 / 7.62		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 2.5 / 0.2 - 2.5 / 24 - 12		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 2.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 2.5		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	0.2 - 1 / 0.2 - 1.5		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 1		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 1		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	400	630	1000
Rated surge voltage	[kV]	6	6	6
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	250	-	300
Nominal current	[A]	12	-	10
Connection capacity AWG	AWG	30 - 12	-	30 - 12
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	10	-	10
Connection capacity AWG	AWG	28 - 12	-	28 - 12
General data				
Stripping length	[mm]	7		
Screw thread		M3		
Tightening torque	[Nm]	0.5 - 0.6		
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		

Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		7.5 mm pitch, color: Green		
2	7.50	**GMSTB 2,5/ 2-ST**	**1766880**	50
3	15.00	**GMSTB 2,5/ 3-ST**	**1766893**	50
4	22.50	**GMSTB 2,5/ 4-ST**	**1766903**	50
5	30.00	**GMSTB 2,5/ 5-ST**	**1766916**	50
6	37.50	**GMSTB 2,5/ 6-ST**	**1766929**	50
7	45.00	**GMSTB 2,5/ 7-ST**	**1766932**	50
8	52.50	**GMSTB 2,5/ 8-ST**	**1766945**	50
9	60.00	**GMSTB 2,5/ 9-ST**	**1766958**	50
10	67.50	**GMSTB 2,5/10-ST**	**1766961**	50
11	75.00	**GMSTB 2,5/11-ST**	**1766974**	50
12	82.50	**GMSTB 2,5/12-ST**	**1766987**	50
		Plugs, 7.62 mm pitch, color: Green		
2	7.62	**GMSTB 2,5/ 2-ST-7,62**	**1766990**	50
3	15.24	**GMSTB 2,5/ 3-ST-7,62**	**1767012**	50
4	22.86	**GMSTB 2,5/ 4-ST-7,62**	**1767025**	50
5	30.48	**GMSTB 2,5/ 5-ST-7,62**	**1767038**	50
6	38.10	**GMSTB 2,5/ 6-ST-7,62**	**1767041**	50
7	45.72	**GMSTB 2,5/ 7-ST-7,62**	**1767054**	50
8	53.34	**GMSTB 2,5/ 8-ST-7,62**	**1767067**	50
9	60.96	**GMSTB 2,5/ 9-ST-7,62**	**1767070**	50
10	68.58	**GMSTB 2,5/10-ST-7,62**	**1767083**	50
11	76.20	**GMSTB 2,5/11-ST-7,62**	**1767096**	50
12	83.82	**GMSTB 2,5/12-ST-7,62**	**1767106**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
GMSTB 2,5/ 2-STF-7,62	**1858769**	50
GMSTB 2,5/ 3-STF-7,62	**1858772**	50
GMSTB 2,5/ 4-STF-7,62	**1858785**	50
GMSTB 2,5/ 5-STF-7,62	**1858798**	50
GMSTB 2,5/ 6-STF-7,62	**1858808**	50
GMSTB 2,5/ 7-STF-7,62	**1858811**	50
GMSTB 2,5/ 8-STF-7,62	**1858824**	50
GMSTB 2,5/ 9-STF-7,62	**1858837**	50
GMSTB 2,5/10-STF-7,62	**1858840**	50
GMSTB 2,5/11-STF-7,62	**1858853**	50
GMSTB 2,5/12-STF-7,62	**1858866**	50

Ordering data

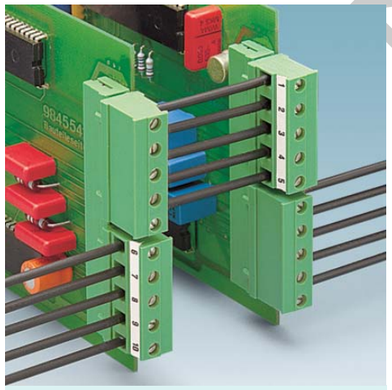
Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
FRONT-GMSTB 2,5/ 2-ST-7,62	**1806119**	50
FRONT-GMSTB 2,5/ 3-ST-7,62	**1806122**	50
FRONT-GMSTB 2,5/ 4-ST-7,62	**1806135**	50
FRONT-GMSTB 2,5/ 5-ST-7,62	**1806148**	50
FRONT-GMSTB 2,5/ 6-ST-7,62	**1806151**	50
FRONT-GMSTB 2,5/ 7-ST-7,62	**1806164**	50
FRONT-GMSTB 2,5/ 8-ST-7,62	**1806177**	50
FRONT-GMSTB 2,5/ 9-ST-7,62	**1806180**	50
FRONT-GMSTB 2,5/10-ST-7,62	**1806193**	50
FRONT-GMSTB 2,5/11-ST-7,62	**1806203**	50
FRONT-GMSTB 2,5/12-ST-7,62	**1806216**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
FRONT-GMSTB 2,5/ 2-STF-7,62	**1805987**	50
FRONT-GMSTB 2,5/ 3-STF-7,62	**1805990**	50
FRONT-GMSTB 2,5/ 4-STF-7,62	**1806009**	50
FRONT-GMSTB 2,5/ 5-STF-7,62	**1806038**	50
FRONT-GMSTB 2,5/ 6-STF-7,62	**1806041**	50
FRONT-GMSTB 2,5/ 7-STF-7,62	**1806054**	50
FRONT-GMSTB 2,5/ 8-STF-7,62	**1806067**	50
FRONT-GMSTB 2,5/ 9-STF-7,62	**1806070**	50
FRONT-GMSTB 2,5/10-STF-7,62	**1806083**	50
FRONT-GMSTB 2,5/11-STF-7,62	**1806096**	50
FRONT-GMSTB 2,5/12-STF-7,62	**1806106**	50

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Connector with a screw connection



- Plug components for 630 V applications (III/2)
- Plug-in direction vertical to the conductor axis
- Versions with a screw flange and a 7.62 mm pitch

GMVSTBR 2,5/…-ST
- Conductor entry on the coded side of the connector

GMVSTBW 2,5/…-ST
- Conductor entry on the rippled side of the connector

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 259.

The maximum torque for the screw flange is 0.3 Nm.

1) Derating curves on request.

Accessories

For all types	Type	Page
	Marker cards **SK 7,5/3,8 or SK 7,62/3,8**	799
	Keying profile **CP-MSTB Order No. 1734634**	38
	Screwdriver **SZS 0,6 x 3,5 Order No. 1205053**	



Conductor entry facing keying side



Conductor entry facing keying side, with screw flange

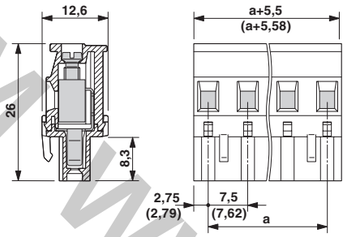


Conductor entry facing rippled side

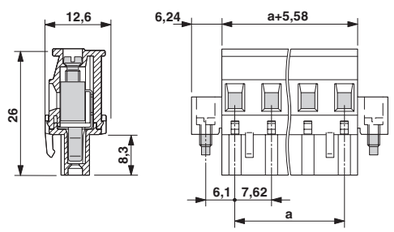


Conductor entry facing rippled side, with screw flange

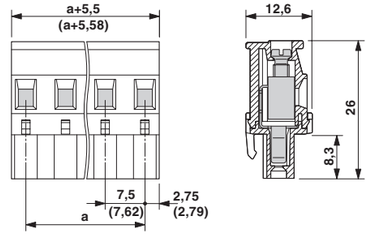
Dimensional drawing



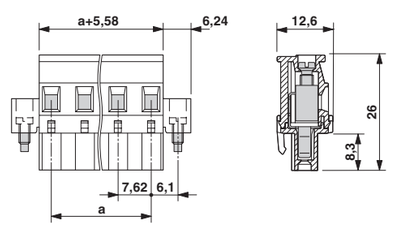
Dimensional drawing



Dimensional drawing



Dimensional drawing



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	12¹) / 2.5		
Rated insulation voltage for pollution degree 2	[V]	630		
Pitch	[mm]	7.5 / 7.62		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 2.5 / 0.2 - 2.5 / 24 - 12		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 2.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 2.5		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	0.2 - 1 / 0.2 - 1.5		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 1		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 1		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	500	630	1000
Rated surge voltage	[kV]	6	6	6
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	250	-	300
Nominal current	[A]	12	-	10
Connection capacity AWG	AWG	30 - 12	-	30 - 12
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	10	-	10
Connection capacity AWG	AWG	28 - 12	-	28 - 12
General data				
Stripping length	[mm]	7		
Screw thread		M3		
Tightening torque	[Nm]	0.5 - 0.6		
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		

Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		7.5 mm pitch, color: Green		
2	7.50	**GMVSTBR 2,5/ 2-ST**	**1737709**	50
3	15.00	**GMVSTBR 2,5/ 3-ST**	**1737712**	50
4	22.50	**GMVSTBR 2,5/ 4-ST**	**1737725**	50
5	30.00	**GMVSTBR 2,5/ 5-ST**	**1737738**	50
6	37.50	**GMVSTBR 2,5/ 6-ST**	**1737741**	50
7	45.00	**GMVSTBR 2,5/ 7-ST**	**1737754**	50
8	52.50	**GMVSTBR 2,5/ 8-ST**	**1737767**	50
9	60.00	**GMVSTBR 2,5/ 9-ST**	**1737770**	50
10	67.50	**GMVSTBR 2,5/10-ST**	**1737783**	50
11	75.00	**GMVSTBR 2,5/11-ST**	**1737796**	50
12	82.50	**GMVSTBR 2,5/12-ST**	**1737806**	50
		Plugs, 7.62 mm pitch, color: Green		
2	7.62	**GMVSTBR 2,5/ 2-ST-7,62**	**1832523**	50
3	15.24	**GMVSTBR 2,5/ 3-ST-7,62**	**1832536**	50
4	22.86	**GMVSTBR 2,5/ 4-ST-7,62**	**1832549**	50
5	30.48	**GMVSTBR 2,5/ 5-ST-7,62**	**1832552**	50
6	38.10	**GMVSTBR 2,5/ 6-ST-7,62**	**1832565**	50
7	45.72	**GMVSTBR 2,5/ 7-ST-7,62**	**1832578**	50
8	53.34	**GMVSTBR 2,5/ 8-ST-7,62**	**1832581**	50
9	60.96	**GMVSTBR 2,5/ 9-ST-7,62**	**1832594**	50
10	68.58	**GMVSTBR 2,5/10-ST-7,62**	**1832604**	50
11	76.20	**GMVSTBR 2,5/11-ST-7,62**	**1832617**	50
12	83.82	**GMVSTBR 2,5/12-ST-7,62**	**1832620**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
GMVSTBR 2,5/ 2-STF-7,62	**1847880**	50
GMVSTBR 2,5/ 3-STF-7,62	**1847893**	50
GMVSTBR 2,5/ 4-STF-7,62	**1847903**	50
GMVSTBR 2,5/ 5-STF-7,62	**1847916**	50
GMVSTBR 2,5/ 6-STF-7,62	**1847929**	50
GMVSTBR 2,5/ 7-STF-7,62	**1847932**	50
GMVSTBR 2,5/ 8-STF-7,62	**1847945**	50
GMVSTBR 2,5/ 9-STF-7,62	**1847958**	50
GMVSTBR 2,5/10-STF-7,62	**1847961**	50
GMVSTBR 2,5/11-STF-7,62	**1847974**	50
GMVSTBR 2,5/12-STF-7,62	**1847987**	50

Ordering data

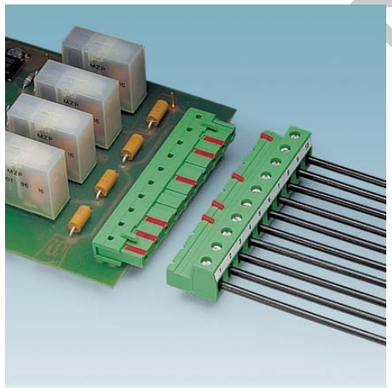
Type	Order No.	Pcs. / Pkt.
7.5 mm pitch, color: Green		
GMVSTBW 2,5/ 2-ST	**1737819**	50
GMVSTBW 2,5/ 3-ST	**1737822**	50
GMVSTBW 2,5/ 4-ST	**1737835**	50
GMVSTBW 2,5/ 5-ST	**1737848**	50
GMVSTBW 2,5/ 6-ST	**1737851**	50
GMVSTBW 2,5/ 7-ST	**1737864**	50
GMVSTBW 2,5/ 8-ST	**1737877**	50
GMVSTBW 2,5/ 9-ST	**1737880**	50
GMVSTBW 2,5/10-ST	**1737893**	50
GMVSTBW 2,5/11-ST	**1737903**	50
GMVSTBW 2,5/12-ST	**1737916**	50
Pitch 7.62 mm, color: Green		
GMVSTBW 2,5/ 2-ST-7,62	**1832413**	50
GMVSTBW 2,5/ 3-ST-7,62	**1832426**	50
GMVSTBW 2,5/ 4-ST-7,62	**1832439**	50
GMVSTBW 2,5/ 5-ST-7,62	**1832442**	50
GMVSTBW 2,5/ 6-ST-7,62	**1832455**	50
GMVSTBW 2,5/ 7-ST-7,62	**1832468**	50
GMVSTBW 2,5/ 8-ST-7,62	**1832471**	50
GMVSTBW 2,5/ 9-ST-7,62	**1832484**	50
GMVSTBW 2,5/10-ST-7,62	**1832497**	50
GMVSTBW 2,5/11-ST-7,62	**1832507**	50
GMVSTBW 2,5/12-ST-7,62	**1832510**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
GMVSTBW 2,5/ 2-STF-7,62	**1847990**	50
GMVSTBW 2,5/ 3-STF-7,62	**1848009**	50
GMVSTBW 2,5/ 4-STF-7,62	**1848012**	50
GMVSTBW 2,5/ 5-STF-7,62	**1848025**	50
GMVSTBW 2,5/ 6-STF-7,62	**1848038**	50
GMVSTBW 2,5/ 7-STF-7,62	**1848041**	50
GMVSTBW 2,5/ 8-STF-7,62	**1848054**	50
GMVSTBW 2,5/ 9-STF-7,62	**1848067**	50
GMVSTBW 2,5/10-STF-7,62	**1848070**	50
GMVSTBW 2,5/11-STF-7,62	**1848083**	50
GMVSTBW 2,5/12-STF-7,62	**1848096**	50

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Inverted connectors with a screw connection



- Connector for 630 V shock-proof applications (III/2)
- Plug-in direction parallel to the conductor axis
- Versions with and without a screw flange/threaded flange
- For various combination options with GMSTB 2,5 plug-in system, refer to page 34

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

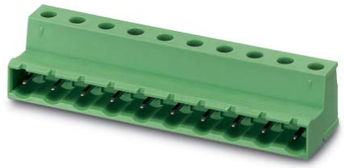
COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 259.

The maximum torque for the screw flange is 0.3 Nm.

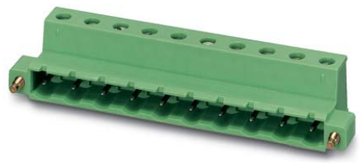
[1]) Please observe the derating curves. Derating curves of further combination options on request.

Accessories

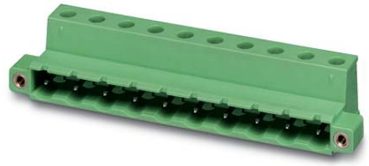
For all types	Type	Page
	Marker cards **SK 7,62/3,8**	799
	Keying section **CR-MSTB** **Order No. 1734401**	38
	Screwdriver **SZS 0,6 x 3,5** **Order No. 1205053**	
	Keying tab **MSTB-BL** **Order No. 1755477**	837



Inverted connector with screw connection

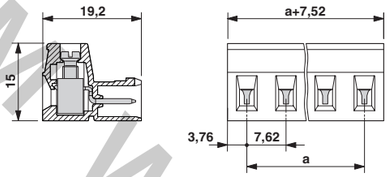


With screw flange, for screw connection using inverted headers

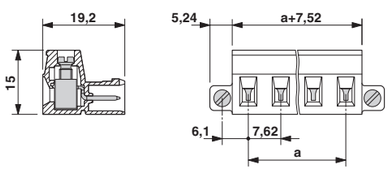


With threaded flange for screw connection using GMSTB connectors

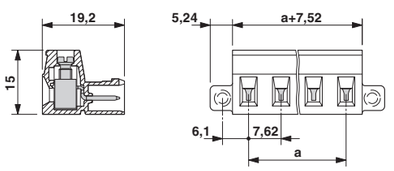
Dimensional drawing



Dimensional drawing



Dimensional drawing

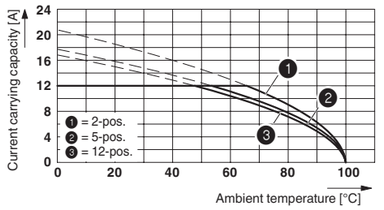


Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 2.5 mm²
Reduction factor = 0.8
Number of positions = see diagram

Representative derating curve

Type: GIC 2,5/...-ST-7,62 with GICV 2,5/...-G-7,62



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	12[1]) / 2.5		
Rated insulation voltage for pollution degree 2	[V]	630		
Pitch	[mm]	7.62		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 2.5 / 0.2 - 2.5 / 24 - 12		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 2.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 2.5		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	0.2 - 1 / 0.2 - 1.5		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 1		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 1		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	400	630	1000
Rated surge voltage	[kV]	6	6	6
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	250	-	300
Nominal current	[A]	12	-	10
Connection capacity AWG	AWG	30 - 12	-	30 - 12
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	10	-	10
Connection capacity AWG	AWG	28 - 12	-	28 - 12
General data				
Stripping length	[mm]	7		
Screw thread		M3		
Tightening torque	[Nm]	0.5 - 0.6		
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		

No. of pos.	Dim. a [mm]
2	7.62
3	15.24
4	22.86
5	30.48
6	38.10
7	45.72
8	53.34
9	60.96
10	68.58
11	76.20
12	83.82

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
GIC 2,5/ 2-ST-7,62	**1828809**	50
GIC 2,5/ 3-ST-7,62	**1828812**	50
GIC 2,5/ 4-ST-7,62	**1828825**	50
GIC 2,5/ 5-ST-7,62	**1828838**	50
GIC 2,5/ 6-ST-7,62	**1828841**	50
GIC 2,5/ 7-ST-7,62	**1828854**	50
GIC 2,5/ 8-ST-7,62	**1828867**	50
GIC 2,5/ 9-ST-7,62	**1828870**	50
GIC 2,5/10-ST-7,62	**1828883**	50
GIC 2,5/11-ST-7,62	**1828896**	50
GIC 2,5/12-ST-7,62	**1828906**	50

Ordering data

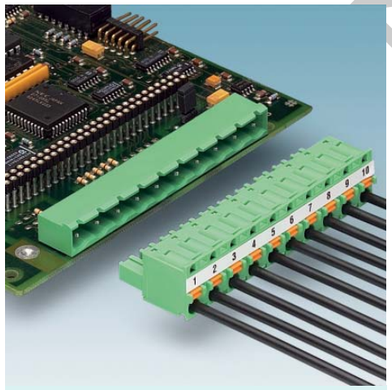
Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
GIC 2,5/ 2-STF-7,62	**1858879**	50
GIC 2,5/ 3-STF-7,62	**1858882**	50
GIC 2,5/ 4-STF-7,62	**1858895**	50
GIC 2,5/ 5-STF-7,62	**1858905**	50
GIC 2,5/ 6-STF-7,62	**1858918**	50
GIC 2,5/ 7-STF-7,62	**1858921**	50
GIC 2,5/ 8-STF-7,62	**1858934**	50
GIC 2,5/ 9-STF-7,62	**1858947**	50
GIC 2,5/10-STF-7,62	**1858950**	50
GIC 2,5/11-STF-7,62	**1858963**	50
GIC 2,5/12-STF-7,62	**1858976**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
GIC 2,5/ 2-STGF-7,62	**1849888**	50
GIC 2,5/ 3-STGF-7,62	**1849891**	50
GIC 2,5/ 4-STGF-7,62	**1849901**	50
GIC 2,5/ 5-STGF-7,62	**1849914**	50
GIC 2,5/ 6-STGF-7,62	**1849927**	50
GIC 2,5/ 7-STGF-7,62	**1849930**	50
GIC 2,5/ 8-STGF-7,62	**1849943**	50
GIC 2,5/ 9-STGF-7,62	**1849956**	50
GIC 2,5/10-STGF-7,62	**1849969**	50
GIC 2,5/11-STGF-7,62	**1849972**	50
GIC 2,5/12-STGF-7,62	**1849985**	50

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Plug with push-in spring connection



- Convenient conductor connection, thanks to push-in spring connection for 630 V applications
- Two test connections to accommodate 2 mm Ø test pins or 2.3 mm Ø test connectors

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 259.

The maximum torque for the screw flange is 0.3 Nm.

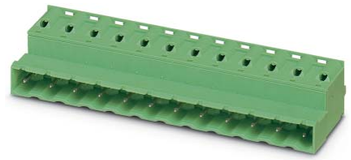
[1]) Please observe the derating curves. Derating curves of further combination options on request.



Plug with push-in spring connection



With screw flange

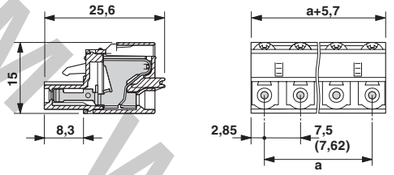


Inverted connector with male contact

Accessories

For all types	Type	Page
	Marker cards **SK 7,5/3,8 or SK 7,62/3,8**	799
	Keying profile **CP-MSTB Order No. 1734634**	38
	Screwdriver **SZS 0,6 x 3,5 Order No. 1205053**	
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm² **CRIMPFOX 6 Order No. 1212034**	
	Test plug **MPS**	831

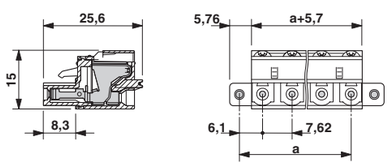
Dimensional drawing



Note derating curves

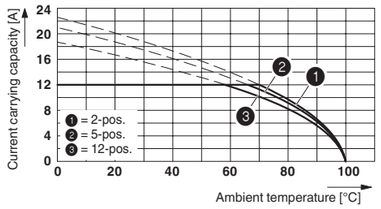
Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 2.5 mm²
Reduction factor = 0.8
Number of positions = see diagram

Dimensional drawing

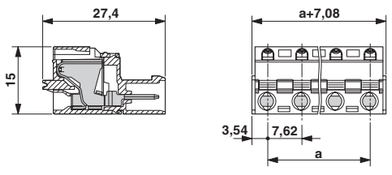


Representative derating curve

Type: GFKC 2,5/...-ST with GMSTBA 2,5/...-G



Dimensional drawing



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	12[1]) / 2.5		
Rated insulation voltage for pollution degree 2	[V]	630		
Pitch	[mm]	7.5 / 7.62		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 2.5 / 0.2 - 2.5 / 24 - 12		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 2.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 2.5		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	- / -		
Stranded with ferrules without plastic sleeve	[mm²]	-		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 1		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	400	630	1000
Rated surge voltage	[kV]	6	6	6
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	250	-	300
Nominal current	[A]	10	-	10
Connection capacity AWG	AWG	26 - 12	-	26 - 12
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	12	-	10
Connection capacity AWG	AWG	24 - 12	-	24 - 12
General data				
Stripping length	[mm]	10		
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		

Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		7.5 mm pitch, color: Green		
2	7.50	**GFKC 2,5/ 2-ST-7,5**	**1939413**	50
3	15.00	**GFKC 2,5/ 3-ST-7,5**	**1939426**	50
4	22.50	**GFKC 2,5/ 4-ST-7,5**	**1939439**	50
5	30.00	**GFKC 2,5/ 5-ST-7,5**	**1939442**	50
6	37.50	**GFKC 2,5/ 6-ST-7,5**	**1939455**	50
7	45.00	**GFKC 2,5/ 7-ST-7,5**	**1939468**	50
8	52.50	**GFKC 2,5/ 8-ST-7,5**	**1939471**	50
9	60.00	**GFKC 2,5/ 9-ST-7,5**	**1939484**	50
10	67.50	**GFKC 2,5/10-ST-7,5**	**1939497**	50
11	75.00	**GFKC 2,5/11-ST-7,5**	**1939507**	50
12	82.50	**GFKC 2,5/12-ST-7,5**	**1939510**	50
		Pitch 7.62 mm, color: Green		
2	7.62	**GFKC 2,5/ 2-ST-7,62**	**1939633**	50
3	15.24	**GFKC 2,5/ 3-ST-7,62**	**1939646**	50
4	22.86	**GFKC 2,5/ 4-ST-7,62**	**1939659**	50
5	30.48	**GFKC 2,5/ 5-ST-7,62**	**1939662**	50
6	38.10	**GFKC 2,5/ 6-ST-7,62**	**1939675**	50
7	45.72	**GFKC 2,5/ 7-ST-7,62**	**1939688**	50
8	53.34	**GFKC 2,5/ 8-ST-7,62**	**1939691**	50
9	60.96	**GFKC 2,5/ 9-ST-7,62**	**1939701**	50
10	68.58	**GFKC 2,5/10-ST-7,62**	**1939714**	50
11	76.20	**GFKC 2,5/11-ST-7,62**	**1939727**	50
12	83.82	**GFKC 2,5/12-ST-7,62**	**1939730**	50

Ordering data

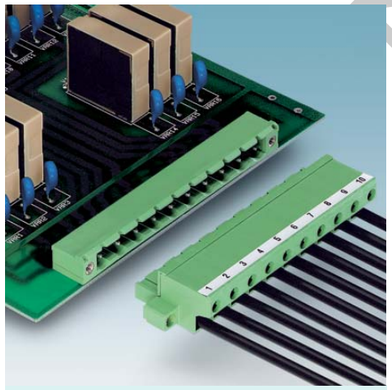
Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
GFKC 2,5/ 2-STF-7,62	**1939743**	50
GFKC 2,5/ 3-STF-7,62	**1939756**	50
GFKC 2,5/ 4-STF-7,62	**1939769**	50
GFKC 2,5/ 5-STF-7,62	**1939772**	50
GFKC 2,5/ 6-STF-7,62	**1939785**	50
GFKC 2,5/ 7-STF-7,62	**1939798**	50
GFKC 2,5/ 8-STF-7,62	**1939808**	50
GFKC 2,5/ 9-STF-7,62	**1939811**	50
GFKC 2,5/10-STF-7,62	**1939824**	50
GFKC 2,5/11-STF-7,62	**1939837**	50
GFKC 2,5/12-STF-7,62	**1939840**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
GFKIC 2,5/ 2-ST-7,62	**1761603**	50
GFKIC 2,5/ 3-ST-7,62	**1761616**	50
GFKIC 2,5/ 4-ST-7,62	**1761629**	50
GFKIC 2,5/ 5-ST-7,62	**1761632**	50
GFKIC 2,5/ 6-ST-7,62	**1761645**	50
GFKIC 2,5/ 7-ST-7,62	**1761658**	50
GFKIC 2,5/ 8-ST-7,62	**1761661**	50
GFKIC 2,5/ 9-ST-7,62	**1761674**	50
GFKIC 2,5/10-ST-7,62	**1761687**	50
GFKIC 2,5/11-ST-7,62	**1761690**	50
GFKIC 2,5/12-ST-7,62	**1761700**	50

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Single-level header for the wave soldering processes



- Headers with angled solder pins for 630 V applications (III/2)
- Plug-in direction parallel to the PCB
- Versions with and without side panels
- Versions with a threaded flange and a 7.62 mm pitch
- Other pin lengths available on request

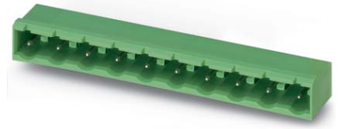
Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

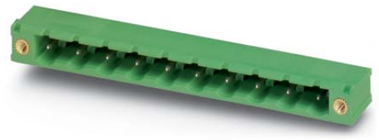
Mounting screws for base element with threaded flange (....GF...): sheet metal screw ISO 1481-ST 2,2x6,5 C or ISO 7049-ST 2,2x6,5 C. Screw connection only permitted prior to soldering.



Without side panels, plug-in direction parallel to the PCB



With side panels, plug-in direction parallel to the PCB

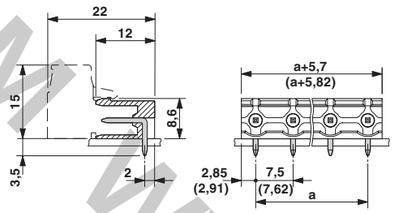


With threaded flange, plug-in direction parallel to the PCB

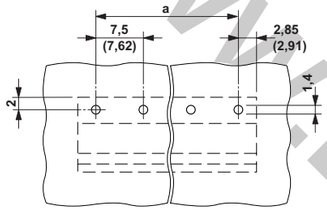
Accessories

For all types	Type	Page
	Marker cards **SK 7,5/3,8 or SK 7,62/3,8**	799
	Keying section **CR-MSTB Order No. 1734401**	38
	Keying tab **MSTB-BL Order No. 1755477**	837
Only for GMSTB 2,5/...-G		
	Mounting flange **MSTB-BF Order No. 1759981**	836

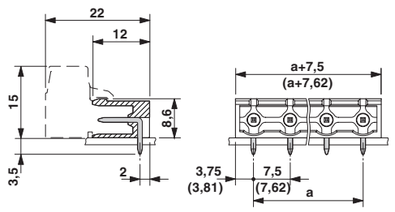
Dimensional drawing



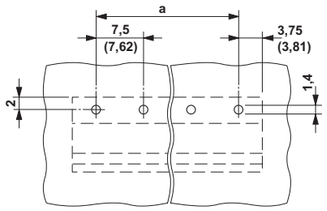
Drilling diagram



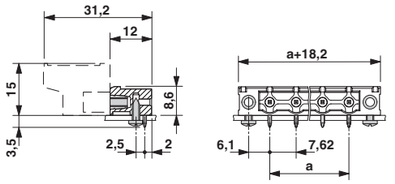
Dimensional drawing



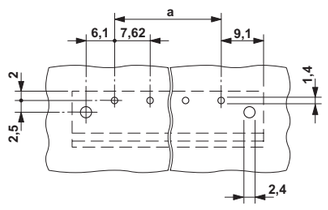
Drilling diagram



Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current	[A]	12		
Rated insulation voltage for pollution degree 2	[V]	630		
Pitch	[mm]	7.5 / 7.62		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	400	630	630
Rated surge voltage	[kV]	6	6	6
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	250	-	300
Nominal current	[A]	12	-	10
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	10	-	10
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.4 / 1 x 1 mm		

Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		7.5 mm pitch, color: Green		
2	7.50	**GMSTB 2,5/ 2-G**	**1766013**	50
3	15.00	**GMSTB 2,5/ 3-G**	**1766026**	50
4	22.50	**GMSTB 2,5/ 4-G**	**1766039**	50
5	30.00	**GMSTB 2,5/ 5-G**	**1766042**	50
6	37.50	**GMSTB 2,5/ 6-G**	**1766055**	50
7	45.00	**GMSTB 2,5/ 7-G**	**1766068**	50
8	52.50	**GMSTB 2,5/ 8-G**	**1766071**	50
9	60.00	**GMSTB 2,5/ 9-G**	**1766084**	50
10	67.50	**GMSTB 2,5/10-G**	**1766097**	50
11	75.00	**GMSTB 2,5/11-G**	**1766107**	50
12	82.50	**GMSTB 2,5/12-G**	**1766110**	50
		Pitch 7.62 mm, color: Green		
2	7.62	**GMSTB 2,5/ 2-G-7,62**	**1766123**	50
3	15.24	**GMSTB 2,5/ 3-G-7,62**	**1766136**	50
4	22.86	**GMSTB 2,5/ 4-G-7,62**	**1766149**	50
5	30.48	**GMSTB 2,5/ 5-G-7,62**	**1766152**	50
6	38.10	**GMSTB 2,5/ 6-G-7,62**	**1766165**	50
7	45.72	**GMSTB 2,5/ 7-G-7,62**	**1766178**	50
8	53.34	**GMSTB 2,5/ 8-G-7,62**	**1766181**	50
9	60.96	**GMSTB 2,5/ 9-G-7,62**	**1766194**	50
10	68.58	**GMSTB 2,5/10-G-7,62**	**1766204**	50
11	76.20	**GMSTB 2,5/11-G-7,62**	**1766217**	50
12	83.82	**GMSTB 2,5/12-G-7,62**	**1766220**	50

Ordering data

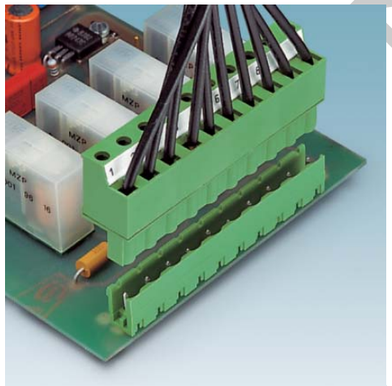
Type	Order No.	Pcs. / Pkt.
7.5 mm pitch, color: Green		
GMSTBA 2,5/ 2-G	**1766343**	250
GMSTBA 2,5/ 3-G	**1766356**	250
GMSTBA 2,5/ 4-G	**1766369**	250
GMSTBA 2,5/ 5-G	**1766372**	250
GMSTBA 2,5/ 6-G	**1766385**	100
GMSTBA 2,5/ 7-G	**1766398**	100
GMSTBA 2,5/ 8-G	**1766408**	100
GMSTBA 2,5/ 9-G	**1766411**	100
GMSTBA 2,5/10-G	**1766424**	100
GMSTBA 2,5/11-G	**1766437**	50
GMSTBA 2,5/12-G	**1766440**	50
Pitch 7.62 mm, color: Green		
GMSTBA 2,5/ 2-G-7,62	**1766233**	250
GMSTBA 2,5/ 3-G-7,62	**1766246**	250
GMSTBA 2,5/ 4-G-7,62	**1766259**	250
GMSTBA 2,5/ 5-G-7,62	**1766262**	250
GMSTBA 2,5/ 6-G-7,62	**1766275**	100
GMSTBA 2,5/ 7-G-7,62	**1766288**	100
GMSTBA 2,5/ 8-G-7,62	**1766291**	100
GMSTBA 2,5/ 9-G-7,62	**1766301**	100
GMSTBA 2,5/10-G-7,62	**1766314**	100
GMSTBA 2,5/11-G-7,62	**1766327**	50
GMSTBA 2,5/12-G-7,62	**1766330**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
GMSTB 2,5/ 2-GF-7,62	**1806229**	50
GMSTB 2,5/ 3-GF-7,62	**1806232**	50
GMSTB 2,5/ 4-GF-7,62	**1806245**	50
GMSTB 2,5/ 5-GF-7,62	**1806258**	50
GMSTB 2,5/ 6-GF-7,62	**1806261**	50
GMSTB 2,5/ 7-GF-7,62	**1806274**	50
GMSTB 2,5/ 8-GF-7,62	**1806287**	50
GMSTB 2,5/ 9-GF-7,62	**1806290**	50
GMSTB 2,5/10-GF-7,62	**1806300**	50
GMSTB 2,5/11-GF-7,62	**1806313**	50
GMSTB 2,5/12-GF-7,62	**1806326**	50

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Single-level header for the wave soldering processes



- Headers with straight solder pins for 630 V applications (III/2)
- Plug-in direction vertical to the PCB
- Versions with and without side panels, as well as with and without threaded flange
- Versions with a threaded flange and a 7.62 mm pitch
- Other pin lengths available on request

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

Mounting screws for base element with threaded flange (....GF...): sheet metal screw ISO 1481-ST 2,2x6,5 C or ISO 7049-ST 2,2x6,5 C. Screw connection only permitted prior to soldering.

Accessories

For all types	Type	Page
	Marker cards **SK 7,5/3,8 or SK 7,62/3,8**	799
	Keying section **CR-MSTB Order No. 1734401**	38
	Keying tab **MSTB-BL Order No. 1755477**	837
Only for GMSTBV 2,5/...-G		
	Mounting flange **MSTB-BF Order No. 1759981**	836



Without side panels, plug-in direction vertical to the PCB

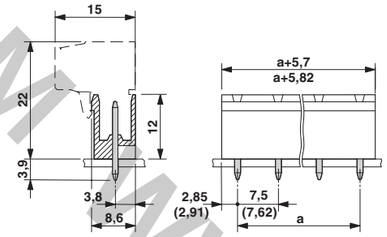


With side panels, plug-in direction vertical to the PCB

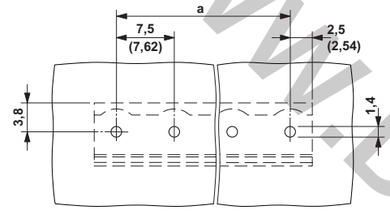


With threaded flange, plug-in direction vertical to the PCB

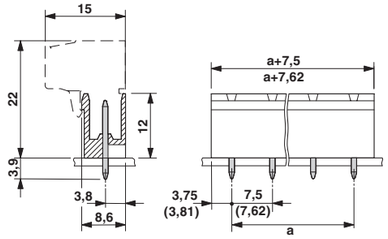
Dimensional drawing



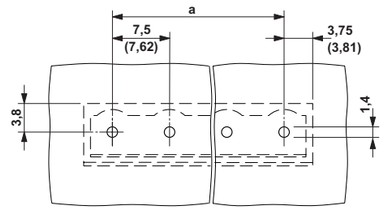
Drilling diagram



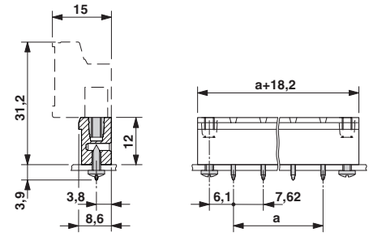
Dimensional drawing



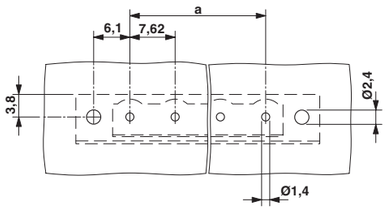
Drilling diagram



Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current	[A]	12		
Rated insulation voltage for pollution degree 2	[V]	630		
Pitch	[mm]	7.5 / 7.62		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	400	630	630
Rated surge voltage	[kV]	6	6	6
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	250	-	300
Nominal current	[A]	12	-	10
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	10	-	10
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.4 / 1 x 1 mm		

Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		7.5 mm pitch, color: Green		
2	7.50	**GMSTBV 2,5/ 2-G**	**1766453**	50
3	15.00	**GMSTBV 2,5/ 3-G**	**1766466**	50
4	22.50	**GMSTBV 2,5/ 4-G**	**1766479**	50
5	30.00	**GMSTBV 2,5/ 5-G**	**1766482**	50
6	37.50	**GMSTBV 2,5/ 6-G**	**1766495**	50
7	45.00	**GMSTBV 2,5/ 7-G**	**1766505**	50
8	52.50	**GMSTBV 2,5/ 8-G**	**1766518**	50
9	60.00	**GMSTBV 2,5/ 9-G**	**1766521**	50
10	67.50	**GMSTBV 2,5/10-G**	**1766534**	50
11	75.00	**GMSTBV 2,5/11-G**	**1766547**	50
12	82.50	**GMSTBV 2,5/12-G**	**1766550**	50
		Headers, 7.62 mm pitch, color: Green		
2	7.62	**GMSTBV 2,5/ 2-G-7,62**	**1766563**	50
3	15.24	**GMSTBV 2,5/ 3-G-7,62**	**1766576**	50
4	22.86	**GMSTBV 2,5/ 4-G-7,62**	**1766589**	50
5	30.48	**GMSTBV 2,5/ 5-G-7,62**	**1766592**	50
6	38.10	**GMSTBV 2,5/ 6-G-7,62**	**1766602**	50
7	45.72	**GMSTBV 2,5/ 7-G-7,62**	**1766615**	50
8	53.34	**GMSTBV 2,5/ 8-G-7,62**	**1766628**	50
9	60.96	**GMSTBV 2,5/ 9-G-7,62**	**1766631**	50
10	68.58	**GMSTBV 2,5/10-G-7,62**	**1766644**	50
11	76.20	**GMSTBV 2,5/11-G-7,62**	**1766657**	50
12	83.82	**GMSTBV 2,5/12-G-7,62**	**1767119**	50

Ordering data

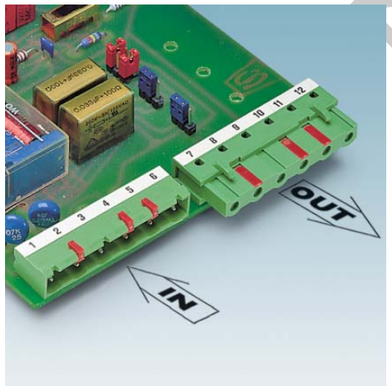
Type	Order No.	Pcs. / Pkt.
7.5 mm pitch, color: Green		
GMSTBVA 2,5/ 2-G	**1766660**	250
GMSTBVA 2,5/ 3-G	**1766673**	250
GMSTBVA 2,5/ 4-G	**1766686**	250
GMSTBVA 2,5/ 5-G	**1766699**	250
GMSTBVA 2,5/ 6-G	**1766709**	100
GMSTBVA 2,5/ 7-G	**1766712**	100
GMSTBVA 2,5/ 8-G	**1766725**	100
GMSTBVA 2,5/ 9-G	**1766738**	100
GMSTBVA 2,5/10-G	**1766741**	100
GMSTBVA 2,5/11-G	**1766754**	50
GMSTBVA 2,5/12-G	**1766767**	50
Pitch 7.62 mm, color: Green		
GMSTBVA 2,5/ 2-G-7,62	**1766770**	250
GMSTBVA 2,5/ 3-G-7,62	**1766783**	250
GMSTBVA 2,5/ 4-G-7,62	**1766796**	250
GMSTBVA 2,5/ 5-G-7,62	**1766806**	250
GMSTBVA 2,5/ 6-G-7,62	**1766819**	100
GMSTBVA 2,5/ 7-G-7,62	**1766822**	100
GMSTBVA 2,5/ 8-G-7,62	**1766835**	100
GMSTBVA 2,5/ 9-G-7,62	**1766848**	100
GMSTBVA 2,5/10-G-7,62	**1766851**	100
GMSTBVA 2,5/11-G-7,62	**1766864**	50
GMSTBVA 2,5/12-G-7,62	**1766877**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
GMSTBV 2,5/ 2-GF-7,62	**1829154**	50
GMSTBV 2,5/ 3-GF-7,62	**1829167**	50
GMSTBV 2,5/ 4-GF-7,62	**1829170**	50
GMSTBV 2,5/ 5-GF-7,62	**1829183**	50
GMSTBV 2,5/ 6-GF-7,62	**1829196**	50
GMSTBV 2,5/ 7-GF-7,62	**1829206**	50
GMSTBV 2,5/ 8-GF-7,62	**1829219**	50
GMSTBV 2,5/ 9-GF-7,62	**1829222**	50
GMSTBV 2,5/10-GF-7,62	**1829235**	50
GMSTBV 2,5/11-GF-7,62	**1829248**	50
GMSTBV 2,5/12-GF-7,62	**1829251**	50

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Inverted header for the wave soldering processes



- Use in shock-proof applications up to 630 V (III/2)
- Horizontal and vertical plug-in direction
- Versions with and without a threaded flange
- Pairs of guide rails can be used as a 90° board to board connection
- Combination with GMSTB 2,5 headers for primary/secondary/PCB connection
- Clear separation of PCB inputs/outputs
- For various combination options with GMSTB 2,5 plug-in system, refer to page 34

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 259.

Dimensional drawing of FLRP-ICV and PCB cutout can be found on page 838

Mounting screws for GIC 2,5/...-GF-7,62 and GICV 2,5/...-GF-7,62: sheet metal screw ISO 1481-ST 2,2x6,5 C or ISO 7049-ST 2,2x6,5 C. Screw connection only permitted prior to soldering.

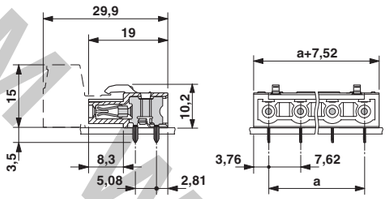
Accessories

For all types	Type	Page
	Marker cards **SK 7,62/3,8**	799
	Keying profile **CP-MSTB** **Order No. 1734634**	38
	Reducing plug **RPS** **Order No. 0201647**	831
	Test plug **MPS**	831
Only for GICV 2,5/...-G-7,62		
	Pair of guide rails for a PCB **FLRP-ICV 80** **Order No. 1808353**	837

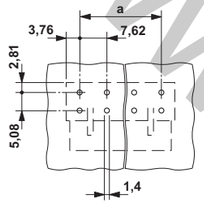


Plug-in direction parallel to the PCB

Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current	[A]	12		
Rated insulation voltage for pollution degree 2	[V]	630		
Pitch	[mm]	7.62		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	500	630	1000
Rated surge voltage	[kV]	6	6	6
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	250	-	300
Nominal current	[A]	12	-	10
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	10	-	10
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.4 / 1,2 x 0,5		

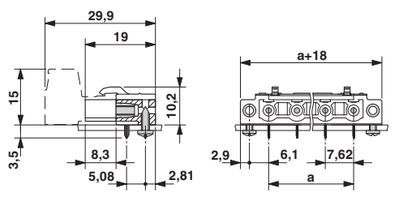
Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		Pitch 7.62 mm, color: Green		
2	7.62	**GIC 2,5/ 2-G-7,62**	**1828676**	50
3	15.24	**GIC 2,5/ 3-G-7,62**	**1828689**	50
4	22.86	**GIC 2,5/ 4-G-7,62**	**1828692**	50
5	30.48	**GIC 2,5/ 5-G-7,62**	**1828702**	50
6	38.10	**GIC 2,5/ 6-G-7,62**	**1828715**	50
7	45.72	**GIC 2,5/ 7-G-7,62**	**1828728**	50
8	53.34	**GIC 2,5/ 8-G-7,62**	**1828731**	50
9	60.96	**GIC 2,5/ 9-G-7,62**	**1828744**	50
10	68.58	**GIC 2,5/10-G-7,62**	**1828757**	50
11	76.20	**GIC 2,5/11-G-7,62**	**1828760**	50
12	83.82	**GIC 2,5/12-G-7,62**	**1828773**	50

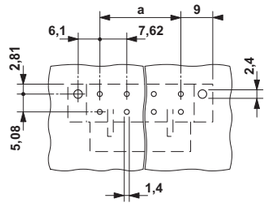


With threaded flange, plug-in direction parallel to the PCB

Dimensional drawing



Drilling diagram



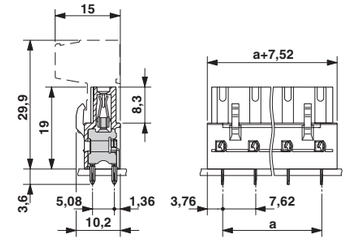
Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
GIC 2,5/ 2-GF-7,62	**1858989**	50
GIC 2,5/ 3-GF-7,62	**1858992**	50
GIC 2,5/ 4-GF-7,62	**1859001**	50
GIC 2,5/ 5-GF-7,62	**1859014**	50
GIC 2,5/ 6-GF-7,62	**1859027**	50
GIC 2,5/ 7-GF-7,62	**1859030**	50
GIC 2,5/ 8-GF-7,62	**1859043**	50
GIC 2,5/ 9-GF-7,62	**1859056**	50
GIC 2,5/10-GF-7,62	**1859069**	50
GIC 2,5/11-GF-7,62	**1859072**	50
GIC 2,5/12-GF-7,62	**1859085**	50

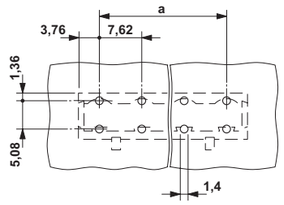


Plug-in direction vertical to the PCB

Dimensional drawing



Drilling diagram



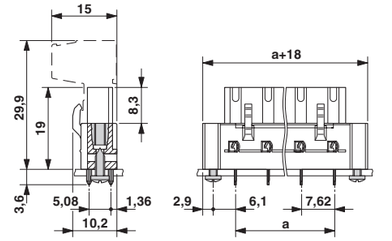
Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
GICV 2,5/ 2-G-7,62	**1828919**	50
GICV 2,5/ 3-G-7,62	**1828922**	50
GICV 2,5/ 4-G-7,62	**1828935**	50
GICV 2,5/ 5-G-7,62	**1828948**	50
GICV 2,5/ 6-G-7,62	**1828951**	50
GICV 2,5/ 7-G-7,62	**1828964**	50
GICV 2,5/ 8-G-7,62	**1828977**	50
GICV 2,5/ 9-G-7,62	**1828980**	50
GICV 2,5/10-G-7,62	**1828993**	50
GICV 2,5/11-G-7,62	**1829002**	50
GICV 2,5/12-G-7,62	**1829015**	50

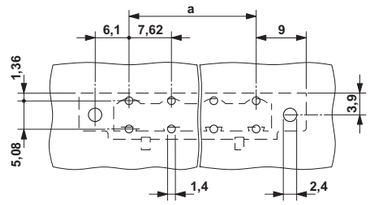


With threaded flange, plug-in direction vertical to the PCB

Dimensional drawing



Drilling diagram

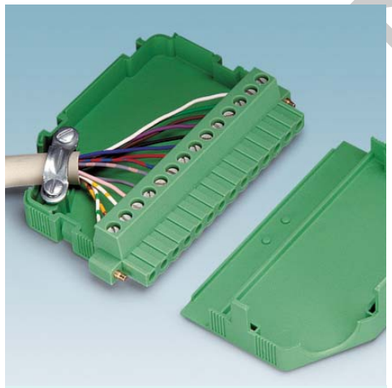


Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
GICV 2,5/ 2-GF-7,62	**1859098**	50
GICV 2,5/ 3-GF-7,62	**1859108**	50
GICV 2,5/ 4-GF-7,62	**1859111**	50
GICV 2,5/ 5-GF-7,62	**1859124**	50
GICV 2,5/ 6-GF-7,62	**1859137**	50
GICV 2,5/ 7-GF-7,62	**1859140**	50
GICV 2,5/ 8-GF-7,62	**1859153**	50
GICV 2,5/ 9-GF-7,62	**1859166**	50
GICV 2,5/10-GF-7,62	**1859179**	50
GICV 2,5/11-GF-7,62	**1859182**	50
GICV 2,5/12-GF-7,62	**1859195**	50

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Cable housings



- For MSTB, IC and GMSTB plug components, with and without flange with 5.0 and 5.08 mm pitches
- Complete snap-locking of the two half shells of the cable housing
- Cable strain relief using cable binder or cable clamp
- Suitable for cables with a diameter of 4 to 13.5 mm
- Straight cable outlet for aligning multiple cable housings
- Easier plugging and unplugging processes
- Higher numbers of positions up to 24-pos. can be found at: **www.phoenixcontact.net/products**

Notes:

The possible combinations for cable housing with GMSTB 2,5/...-ST(-7,62) can be found on page 838

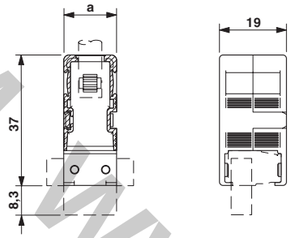
Accessories

For all types	Type	Page
	Marker strips, unprinted, 10-section **SBS 2,5/7,5** **Order No. 1007604**	
Only for KGS-MSTB 2,5/ ...		
	Transparent marker carrier **KGS-MSTB 2,5/DST** **Order No. 1784914**	
	Bend protection sleeve KD-KGS-MSTB **Order No. 1804658**	



For 4 to 6 mm cable diameters, cable binders and marker strips are included, straight cable outlet

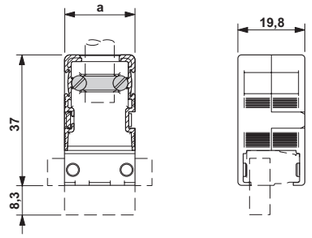
Dimensional drawing





For 5 to 9.5 mm cable diameters, cable clamps, screws and marker strips are included, straight cable outlet

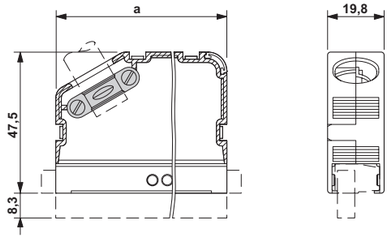
Dimensional drawing





For 6 to 13.5 mm cable diameters, marker strips and transparent label carriers are included, angled cable outlet

Dimensional drawing



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	- / -		
Rated insulation voltage for pollution degree 2	[V]	-		
Pitch	[mm]	0		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]			
Rated surge voltage	[kV]			
General data				
Type of insulation material / insulation material group		ABS / I		
Inflammability class according to UL 94		HB		

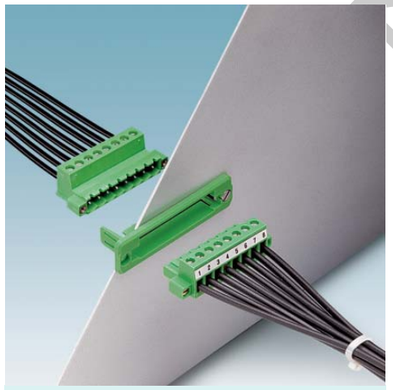
Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		5.0 or 5.08 mm pitch, color: green		
2	10.00	**KGG-MSTB 2,5/ 2**	**1803934**	10
3	15.00	**KGG-MSTB 2,5/ 3**	**1803947**	10
4	20.00	**KGG-MSTB 2,5/ 4**	**1803882**	10
5	25.00	**KGG-MSTB 2,5/ 5**	**1803895**	10
6	30.00	**KGG-MSTB 2,5/ 6**	**1803905**	10
7	35.00	**KGG-MSTB 2,5/ 7**	**1803918**	10
8	40.00	**KGG-MSTB 2,5/ 8**	**1803921**	10
9	45.00	**KGS-MSTB 2,5/ 8**	**1783779**	10
10	50.00	**KGS-MSTB 2,5/ 9**	**1783782**	10
11	55.00	**KGS-MSTB 2,5/10**	**1783740**	10
12	60.00	**KGS-MSTB 2,5/11**	**1783805**	10
13	65.00	**KGS-MSTB 2,5/12**	**1783818**	10
14	70.00	**KGS-MSTB 2,5/13**	**1783821**	10
15	75.00	**KGS-MSTB 2,5/14**	**1783834**	10
16	80.00	**KGS-MSTB 2,5/15**	**1783847**	10
		KGS-MSTB 2,5/16	**1783850**	10

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Feed-through assembly frame

Notes:
Cutout dimensions b and c can be found on page 838.
IC 2,5/...-STGF-5,08 connectors, see page 273.



- Feed-through assembly frame for inverted IC 2,5/…-STGF-5,08 COMBICON connectors
- The frame can be inserted and screwed into the cutout
- Snap-locking the IC plug component into the frame
- Fitting the MSTB 2,5/...-STF-5,08 connector from outside
- Vibration-resistant screwing of the two plug components using a screw flange
- Up to a wall thickness of 1.5 mm, the frame can be screwed before the IC connector is mounted

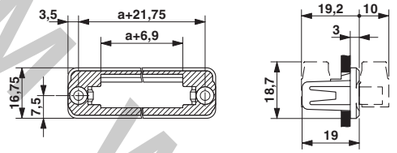


**For snapping in the IC 2,5/...-STGF-5,08 inverted connector,
for wall thicknesses from 0.5 to 4.5 mm**

Accessories

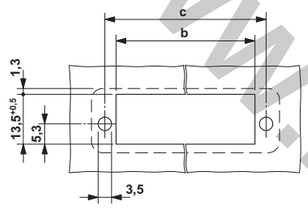
For all types	Type	Page
	One screw set M3 x 10 mm **DFK-MSTB-SS** **Order No.** **0708263**	

Dimensional drawing



Drilling diagram

Dimension b: 10.84 mm + (no. of pos. x 5.08 mm)
Dimension c: Dim. b + 5.83 mm



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	-		
Rated insulation voltage for pollution degree 2	[V]	-		
Pitch	[mm]	5.08		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]			
Rated surge voltage	[kV]			
General data				
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		

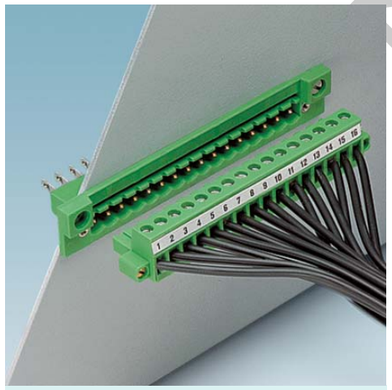
No. of pos.	Dim. a [mm]
2	5.08
3	10.16
4	15.24
5	20.32
6	25.40
7	30.48
8	35.56
9	40.64
10	45.72
11	50.80
12	55.88
13	60.96
14	66.04
15	71.12
16	76.20

Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
IC-DFR 2	**1852024**	50
IC-DFR 3	**1852037**	50
IC-DFR 4	**1852040**	50
IC-DFR 5	**1852053**	50
IC-DFR 6	**1852066**	50
IC-DFR 7	**1852079**	50
IC-DFR 8	**1852082**	50
IC-DFR 9	**1852095**	50
IC-DFR 10	**1852105**	50
IC-DFR 11	**1852118**	50
IC-DFR 12	**1852121**	50
IC-DFR 13	**1852134**	50
IC-DFR 14	**1852147**	50
IC-DFR 15	**1852150**	50
IC-DFR 16	**1852163**	50

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Feed-through housing



- Header for assembly in a device/housing panel
- Outside: Plug-in connection for corresponding MSTB 2,5 or FKC 2,5 connectors
- Internally combinable solder or 2.8 mm slip-on connection
- Versions with and without a threaded flange
- Can be fixed in housing walls up to 6 mm thick using two M3 x 10 screws

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

For cutout dimensions see page 838.

[1]) When using the spade connection, the rated current is 7.5 A.



For housing walls 0.5 to 4 mm thick

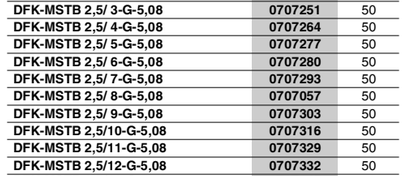


For housing walls 0.5 to 4 mm thick, with threaded flange

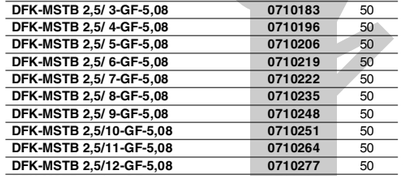
Accessories

For all types	Type	Page
	Keying section **CR-MSTB** **Order No. 1734401**	38
	Keying tab **MSTB-BL** **Order No. 1755477**	837
	One screw set M3 x 10 mm **DFK-MSTB-SS** **Order No. 0708263**	
Only for DFK-MSTB 2,5/...-G		
	Ticks for snapping on the MSTB(T) connectors **DFK-MSTB-R** **Order No. 5030172**	

Dimensional drawing



Dimensional drawing



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	12[1]) / 2.5		
Rated insulation voltage for pollution degree 2	[V]	320		
Pitch	[mm]	5 / 5.08		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	320	320	630
Rated surge voltage	[kV]	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	15	-	15
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	10	-	10
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V2		
Slip-on connection (DIN 46249-1)	[A]/[mm]	- / 2,8 x 0,8 mm		

Ordering data

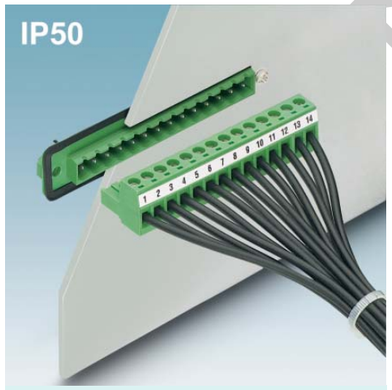
No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		5.0 mm pitch, color: green		
2	5.00	**DFK-MSTB 2,5/ 2-G**	**0707109**	50
3	10.00	**DFK-MSTB 2,5/ 3-G**	**0707112**	50
4	15.00	**DFK-MSTB 2,5/ 4-G**	**0707125**	50
5	20.00	**DFK-MSTB 2,5/ 5-G**	**0707138**	50
6	25.00	**DFK-MSTB 2,5/ 6-G**	**0707141**	50
7	30.00	**DFK-MSTB 2,5/ 7-G**	**0707154**	50
8	35.00	**DFK-MSTB 2,5/ 8-G**	**0707060**	50
9	40.00	**DFK-MSTB 2,5/ 9-G**	**0707167**	50
10	45.00	**DFK-MSTB 2,5/10-G**	**0707170**	50
11	50.00	**DFK-MSTB 2,5/11-G**	**0707183**	50
12	55.00	**DFK-MSTB 2,5/12-G**	**0707196**	50
13	60.00	**DFK-MSTB 2,5/13-G**	**0707206**	50
14	65.00	**DFK-MSTB 2,5/14-G**	**0707219**	50
15	70.00	**DFK-MSTB 2,5/15-G**	**0707222**	50
16	75.00	**DFK-MSTB 2,5/16-G**	**0707235**	50
		5.08 mm pitch, color: Green		
2	5.08	**DFK-MSTB 2,5/ 2-G-5,08**	**0707248**	50
3	10.16	**DFK-MSTB 2,5/ 3-G-5,08**	**0707251**	50
4	15.24	**DFK-MSTB 2,5/ 4-G-5,08**	**0707264**	50
5	20.32	**DFK-MSTB 2,5/ 5-G-5,08**	**0707277**	50
6	25.40	**DFK-MSTB 2,5/ 6-G-5,08**	**0707280**	50
7	30.48	**DFK-MSTB 2,5/ 7-G-5,08**	**0707293**	50
8	35.56	**DFK-MSTB 2,5/ 8-G-5,08**	**0707057**	50
9	40.64	**DFK-MSTB 2,5/ 9-G-5,08**	**0707303**	50
10	45.72	**DFK-MSTB 2,5/10-G-5,08**	**0707316**	50
11	50.80	**DFK-MSTB 2,5/11-G-5,08**	**0707329**	50
12	55.88	**DFK-MSTB 2,5/12-G-5,08**	**0707332**	50
13	60.96	**DFK-MSTB 2,5/13-G-5,08**	**0707345**	50
14	66.04	**DFK-MSTB 2,5/14-G-5,08**	**0707358**	50
15	71.12	**DFK-MSTB 2,5/15-G-5,08**	**0707361**	50
16	76.20	**DFK-MSTB 2,5/16-G-5,08**	**0707374**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
DFK-MSTB 2,5/ 2-GF	**0710028**	50
DFK-MSTB 2,5/ 3-GF	**0710031**	50
DFK-MSTB 2,5/ 4-GF	**0710044**	50
DFK-MSTB 2,5/ 5-GF	**0710057**	1
DFK-MSTB 2,5/ 6-GF	**0710060**	50
DFK-MSTB 2,5/ 7-GF	**0710073**	50
DFK-MSTB 2,5/ 8-GF	**0710086**	50
DFK-MSTB 2,5/ 9-GF	**0710099**	50
DFK-MSTB 2,5/10-GF	**0710109**	50
DFK-MSTB 2,5/11-GF	**0710112**	50
DFK-MSTB 2,5/12-GF	**0710125**	50
DFK-MSTB 2,5/13-GF	**0710138**	50
DFK-MSTB 2,5/14-GF	**0710141**	50
DFK-MSTB 2,5/15-GF	**0710154**	50
DFK-MSTB 2,5/16-GF	**0710167**	50
5.08 mm pitch, color: Green		
DFK-MSTB 2,5/ 2-GF-5,08	**0710170**	50
DFK-MSTB 2,5/ 3-GF-5,08	**0710183**	50
DFK-MSTB 2,5/ 4-GF-5,08	**0710196**	50
DFK-MSTB 2,5/ 5-GF-5,08	**0710206**	50
DFK-MSTB 2,5/ 6-GF-5,08	**0710219**	50
DFK-MSTB 2,5/ 7-GF-5,08	**0710222**	50
DFK-MSTB 2,5/ 8-GF-5,08	**0710235**	50
DFK-MSTB 2,5/ 9-GF-5,08	**0710248**	50
DFK-MSTB 2,5/10-GF-5,08	**0710251**	50
DFK-MSTB 2,5/11-GF-5,08	**0710264**	50
DFK-MSTB 2,5/12-GF-5,08	**0710277**	50
DFK-MSTB 2,5/13-GF-5,08	**0710280**	50
DFK-MSTB 2,5/14-GF-5,08	**0710293**	50
DFK-MSTB 2,5/15-GF-5,08	**0710303**	50
DFK-MSTB 2,5/16-GF-5,08	**0710316**	50

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Feed-through housing



- Header for assembly in a device/housing panel
- External connection for the corresponding MSTB 2,5 or FKC 2,5 plugs
- With horizontal or vertical solder connection inside
- Installation from the inside of the device through the housing panel.
- Sealing the inside of the housing against dust using the enclosed seal

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 259.

For cutout dimensions see page 838.

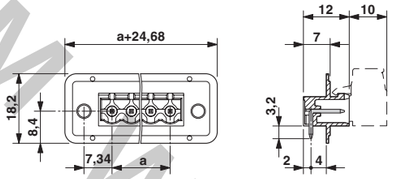
Accessories

For all types	Type	Page
	Keying section **CR-MSTB** **Order No.** **1734401**	38
	One screw set M3 x 10 mm **DFK-MSTB-SS** **Order No.** **0708263**	

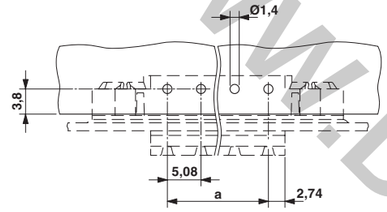


Plug-in direction parallel to the PCB

Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
DFK-MSTBA 2,5/ 2-G-5,08	**1898839**	50
DFK-MSTBA 2,5/ 3-G-5,08	**1898842**	50
DFK-MSTBA 2,5/ 4-G-5,08	**1898855**	50
DFK-MSTBA 2,5/ 5-G-5,08	**1898868**	50
DFK-MSTBA 2,5/ 6-G-5,08	**1898871**	50
DFK-MSTBA 2,5/ 7-G-5,08	**1898884**	50
DFK-MSTBA 2,5/ 8-G-5,08	**1898897**	50
DFK-MSTBA 2,5/ 9-G-5,08	**1898907**	50
DFK-MSTBA 2,5/10-G-5,08	**1898910**	50
DFK-MSTBA 2,5/11-G-5,08	**1898923**	50
DFK-MSTBA 2,5/12-G-5,08	**1898936**	50
DFK-MSTBA 2,5/13-G-5,08	**1898949**	50
DFK-MSTBA 2,5/14-G-5,08	**1898952**	50
DFK-MSTBA 2,5/15-G-5,08	**1898965**	50
DFK-MSTBA 2,5/16-G-5,08	**1898978**	50

Technical data

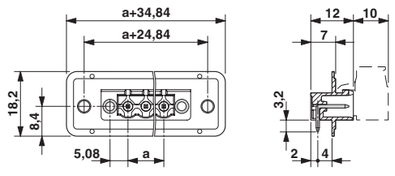
Technical data in accordance to IEC / DIN VDE				
Rated current	[A]	12		
Rated insulation voltage for pollution degree 2	[V]	320		
Pitch	[mm]	5.08		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250	320	400
Rated surge voltage	[kV]	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	15	-	15
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		PBT / IIIa		
Inflammability class according to UL 94		V0		

No. of pos.	Dim. a [mm]
2	5.08
3	10.16
4	15.24
5	20.32
6	25.40
7	30.48
8	35.56
9	40.64
10	45.72
11	50.80
12	55.88
13	60.96
14	66.04
15	71.12
16	76.20

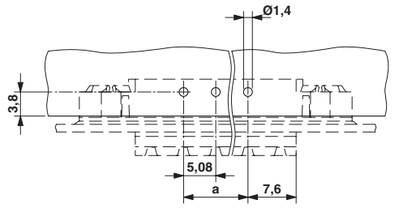


With threaded flange, plug-in direction parallel to the PCB

Dimensional drawing

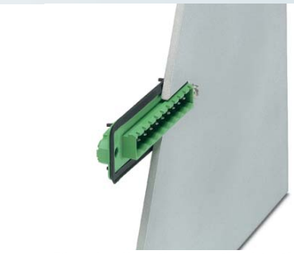


Drilling diagram



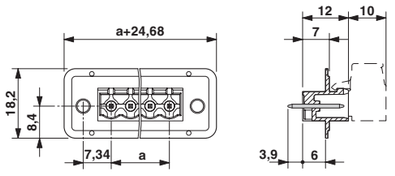
Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
DFK-MSTBA 2,5/ 2-GF-5,08	**1898981**	50
DFK-MSTBA 2,5/ 3-GF-5,08	**1898994**	50
DFK-MSTBA 2,5/ 4-GF-5,08	**1899003**	50
DFK-MSTBA 2,5/ 5-GF-5,08	**1899016**	50
DFK-MSTBA 2,5/ 6-GF-5,08	**1899029**	50
DFK-MSTBA 2,5/ 7-GF-5,08	**1899032**	50
DFK-MSTBA 2,5/ 8-GF-5,08	**1899045**	50
DFK-MSTBA 2,5/ 9-GF-5,08	**1899058**	50
DFK-MSTBA 2,5/10-GF-5,08	**1899061**	50
DFK-MSTBA 2,5/11-GF-5,08	**1899074**	50
DFK-MSTBA 2,5/12-GF-5,08	**1899087**	50
DFK-MSTBA 2,5/13-GF-5,08	**1899090**	50
DFK-MSTBA 2,5/14-GF-5,08	**1899100**	50
DFK-MSTBA 2,5/15-GF-5,08	**1899113**	50
DFK-MSTBA 2,5/16-GF-5,08	**1899126**	50

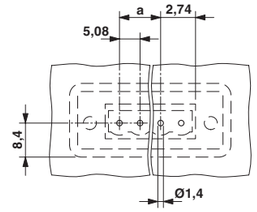


Plug-in direction vertical to the PCB

Dimensional drawing



Drilling diagram



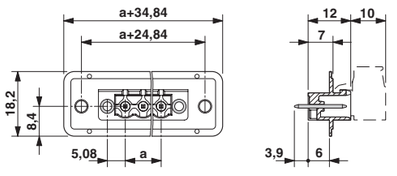
Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
DFK-MSTBVA 2,5/ 2-G-5,08	**1899139**	50
DFK-MSTBVA 2,5/ 3-G-5,08	**1899142**	50
DFK-MSTBVA 2,5/ 4-G-5,08	**1899155**	50
DFK-MSTBVA 2,5/ 5-G-5,08	**1899168**	50
DFK-MSTBVA 2,5/ 6-G-5,08	**1899171**	50
DFK-MSTBVA 2,5/ 7-G-5,08	**1899184**	50
DFK-MSTBVA 2,5/ 8-G-5,08	**1899197**	50
DFK-MSTBVA 2,5/ 9-G-5,08	**1899207**	50
DFK-MSTBVA 2,5/10-G-5,08	**1899210**	50
DFK-MSTBVA 2,5/11-G-5,08	**1899223**	50
DFK-MSTBVA 2,5/12-G-5,08	**1899236**	50
DFK-MSTBVA 2,5/13-G-5,08	**1899249**	50
DFK-MSTBVA 2,5/14-G-5,08	**1899252**	50
DFK-MSTBVA 2,5/15-G-5,08	**1899265**	50
DFK-MSTBVA 2,5/16-G-5,08	**1899278**	50

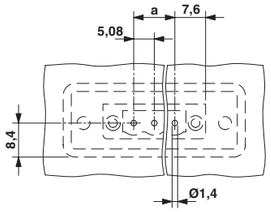


With threaded flange, plug-in direction vertical to the PCB

Dimensional drawing



Drilling diagram

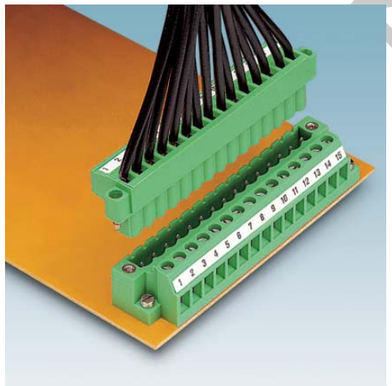


Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
DFK-MSTBVA 2,5/ 2-GF-5,08	**1899281**	50
DFK-MSTBVA 2,5/ 3-GF-5,08	**1899294**	50
DFK-MSTBVA 2,5/ 4-GF-5,08	**1899304**	50
DFK-MSTBVA 2,5/ 5-GF-5,08	**1899317**	50
DFK-MSTBVA 2,5/ 6-GF-5,08	**1899320**	50
DFK-MSTBVA 2,5/ 7-GF-5,08	**1899333**	50
DFK-MSTBVA 2,5/ 8-GF-5,08	**1899346**	50
DFK-MSTBVA 2,5/ 9-GF-5,08	**1899359**	50
DFK-MSTBVA 2,5/10-GF-5,08	**1899362**	50
DFK-MSTBVA 2,5/11-GF-5,08	**1899375**	50
DFK-MSTBVA 2,5/12-GF-5,08	**1899388**	50
DFK-MSTBVA 2,5/13-GF-5,08	**1899391**	50
DFK-MSTBVA 2,5/14-GF-5,08	**1899401**	50
DFK-MSTBVA 2,5/15-GF-5,08	**1899414**	50
DFK-MSTBVA 2,5/16-GF-5,08	**1899427**	50

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Plug-in blocks for direct mounting



- Direct plug-in blocks with mounting flanges for screw connection on mounting plates or unit housings
- Higher numbers of positions up to 24-pos. can be found at: **www.phoenixcontact.net/products**

MVSTBU 2,5/...-G(F)B
- with vertical plug-in direction
- Versions with and without a threaded flange

MSTBU 2,5/...-STD-5,08
- touch-proof connection block in combination with IC 2,5/...-ST-5,08, see page 272

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 259.

Accessories

For all types	Type	Page
	Marker cards **SK 5,08/3,8**	798
	Keying section **CR-MSTB** **Order No. 1734401**	38
	Screwdriver **SZS 0,6 x 3,5** **Order No. 1205053**	
	Insertion bridge **EBP...- 5**	829



With female contacts and flange for direct mounting

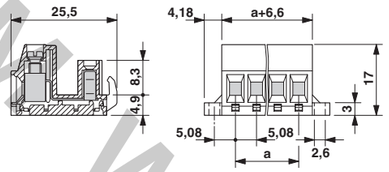


With male contacts and flange for direct mounting

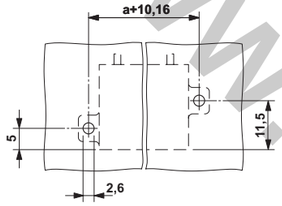


With male contacts, screw flange and flange for direct mounting

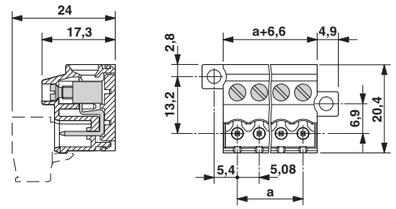
Dimensional drawing



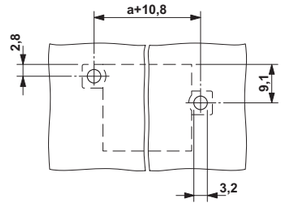
Drilling diagram



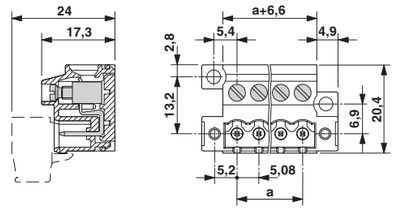
Dimensional drawing



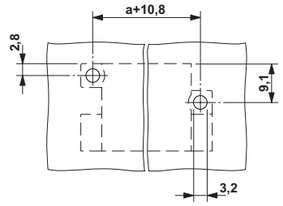
Drilling diagram



Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	12 / 2.5		
Rated insulation voltage for pollution degree 2	[V]	320		
Pitch	[mm]	5.08		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 2.5 / 0.2 - 2.5 / 24 - 12		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 2.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 2.5		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	0.2 - 1 / 0.2 - 1.5		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 1		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 1		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	320	320	630
Rated surge voltage	[kV]	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	250	-	300
Nominal current	[A]	12	-	10
Connection capacity AWG	AWG	30 - 12	-	30 - 12
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	10	-	10
Connection capacity AWG	AWG	28 - 12	-	28 - 12
General data				
Stripping length	[mm]	7		
Screw thread		M3		
Tightening torque	[Nm]	0.5 - 0.6		
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		

No. of pos.	Dim. a [mm]
2	5.08
3	10.16
4	15.24
5	20.32
6	25.40
7	30.48
8	35.56
9	40.64
10	45.72
11	50.80
12	55.88
13	60.96
14	66.04
15	71.12
16	76.20

Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MSTBU 2,5/ 2-STD-5,08	**1824120**	50
MSTBU 2,5/ 3-STD-5,08	**1824133**	50
MSTBU 2,5/ 4-STD-5,08	**1824146**	50
MSTBU 2,5/ 5-STD-5,08	**1824159**	50
MSTBU 2,5/ 6-STD-5,08	**1824162**	50
MSTBU 2,5/ 7-STD-5,08	**1824175**	50
MSTBU 2,5/ 8-STD-5,08	**1824188**	50
MSTBU 2,5/ 9-STD-5,08	**1824191**	50
MSTBU 2,5/10-STD-5,08	**1824201**	50
MSTBU 2,5/11-STD-5,08	**1824214**	50
MSTBU 2,5/12-STD-5,08	**1824227**	50
MSTBU 2,5/13-STD-5,08	**1824230**	50
MSTBU 2,5/14-STD-5,08	**1824243**	50
MSTBU 2,5/15-STD-5,08	**1824256**	50
MSTBU 2,5/16-STD-5,08	**1824269**	50

Ordering data

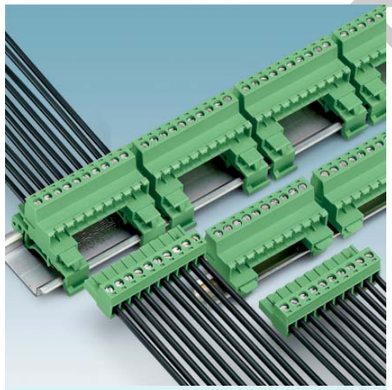
Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MVSTBU 2,5/ 2-GB-5,08	**1788538**	50
MVSTBU 2,5/ 3-GB-5,08	**1788541**	50
MVSTBU 2,5/ 4-GB-5,08	**1788554**	50
MVSTBU 2,5/ 5-GB-5,08	**1788567**	50
MVSTBU 2,5/ 6-GB-5,08	**1788570**	50
MVSTBU 2,5/ 7-GB-5,08	**1788583**	50
MVSTBU 2,5/ 8-GB-5,08	**1788596**	50
MVSTBU 2,5/ 9-GB-5,08	**1788606**	50
MVSTBU 2,5/10-GB-5,08	**1788619**	50
MVSTBU 2,5/11-GB-5,08	**1788622**	50
MVSTBU 2,5/12-GB-5,08	**1788635**	50
MVSTBU 2,5/13-GB-5,08	**1788648**	50
MVSTBU 2,5/14-GB-5,08	**1788651**	50
MVSTBU 2,5/15-GB-5,08	**1788664**	50
MVSTBU 2,5/16-GB-5,08	**1788677**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MVSTBU 2,5/ 2-GFB-5,08	**1788347**	50
MVSTBU 2,5/ 3-GFB-5,08	**1788350**	50
MVSTBU 2,5/ 4-GFB-5,08	**1788363**	50
MVSTBU 2,5/ 5-GFB-5,08	**1788376**	50
MVSTBU 2,5/ 6-GFB-5,08	**1788389**	50
MVSTBU 2,5/ 7-GFB-5,08	**1788392**	50
MVSTBU 2,5/ 8-GFB-5,08	**1788402**	50
MVSTBU 2,5/ 9-GFB-5,08	**1788415**	50
MVSTBU 2,5/10-GFB-5,08	**1788428**	50
MVSTBU 2,5/11-GFB-5,08	**1788431**	50
MVSTBU 2,5/12-GFB-5,08	**1788444**	50
MVSTBU 2,5/13-GFB-5,08	**1788457**	50
MVSTBU 2,5/14-GFB-5,08	**1788460**	50
MVSTBU 2,5/15-GFB-5,08	**1788473**	50
MVSTBU 2,5/16-GFB-5,08	**1788486**	50

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Plug-in blocks for rail mounting



- MSTBVK 2,5 with foot element for mounting on the 15 x 5 mm DIN rail (NS15) in accordance with EN 60715-TH15
- UMSTBHK 2,5 with universal foot for mounting on NS 32 or NS 35 DIN rails
- Can be combined with connectors:
  MSTB(P) 2.5/...-ST...
  FRONT-MSTB 2,5/...-ST...
  FKC(S) 2,5/...-ST...
  FKCN 2,5/...-ST...
  FKCVR 2,5/...-ST...
  ICV 2,5/...-G...

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

For DIN rails, see Catalog 5.

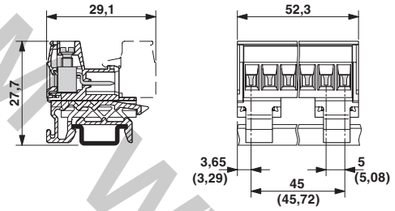
Accessories

For all types	Type	Page
	Keying tab **MSTB-BL** **Order No. 1755477**	837
	Locking for MSTB connectors, 9.9 mm width MSTBHK 2,5/2-AH **Order No. 5030185**	
	Screwdriver **SZS 0,6 x 3,5** **Order No. 1205053**	
Only for MSTBHK 2,5/10-G...		
	End clamp E/MBK **Order No. 1401637**	
Only for UMSTBHK 2,5/10-G		
	End clamp E/UK **Order No. 1201442**	



Inverted connector with screw connection for mounting on NS 15 DIN rail

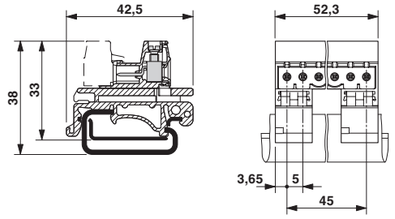
Dimensional drawing





Inverted connector with universal foot for mounting on NS 32 and NS 35

Dimensional drawing



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	12 / 2.5		
Rated insulation voltage for pollution degree 2	[V]	320		
Pitch	[mm]	5 / 5.08		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 2.5 / 0.2 - 2.5 / 24 - 12		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 2.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 2.5		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	0.2 - 1 / 0.2 - 1.5		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 1		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 1.5		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250	320	630
Rated surge voltage	[kV]	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	250	-	300
Nominal current	[A]	12	-	10
Connection capacity AWG	AWG	30 - 12	-	30 - 12
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	10	-	10
Connection capacity AWG	AWG	28 - 12	-	28 - 12
General data				
Stripping length	[mm]	7		
Screw thread		M3		
Tightening torque	[Nm]	0.5 - 0.6		
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		

Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		5.0 mm pitch, color: green		
10	45.00	**MSTBHK 2,5/10-G**	**1765085**	50
		5.08 mm pitch, color: Green		
10	45.72	**MSTBHK 2,5/10-G-5,08**	**1765030**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
UMSTBHK 2,5/10-G	**1765768**	50

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Plug-in blocks for rail mounting



- Can be combined with COMBICON connectors with 5.08 mm grid
- Versions with and without a threaded flange
- Higher numbers of positions up to 24-pos. can be found at: **www.phoenixcontact.net/products**

MSTBVK 2,5/...-G(F)-5,08
- With a foot element for mounting on a 15 x 5 mm DIN rail (NS 15) acc. to EN 60715-TH15

UMSTBVK 2,5/...-G(F)-5,08
- With universal foot for mounting on NS 32 or NS 35 DIN rails

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

For DIN rails, see Catalog 5.

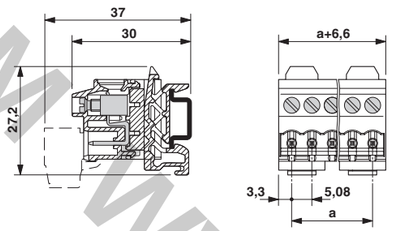
Accessories

For all types	Type	Page
	Marker cards **SK 5,08/3,8**	798
	Keying section **CR-MSTB** **Order No. 1734401**	38
	Screwdriver **SZS 0,6 x 3,5** **Order No. 1205053**	
	Keying tab **MSTB-BL** **Order No. 1755477**	837
	Insertion bridge **EBP...- 5**	829



For mounting on NS 15

Dimensional drawing



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	12 / 2.5		
Rated insulation voltage for pollution degree 2	[V]	320		
Pitch	[mm]	5.08		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 2.5 / 0.2 - 2.5 / 24 - 12		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 2.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 2.5		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	0.2 - 1 / 0.2 - 1.5		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 1		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 1.5		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	320	320	630
Rated surge voltage	[kV]	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	250	-	300
Nominal current	[A]	12	-	10
Connection capacity AWG	AWG	30 - 12	-	30 - 12
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	10	-	10
Connection capacity AWG	AWG	28 - 12	-	28 - 12
General data				
Stripping length	[mm]	7		
Screw thread		M3		
Tightening torque	[Nm]	0.5 - 0.6		
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		

Ordering data

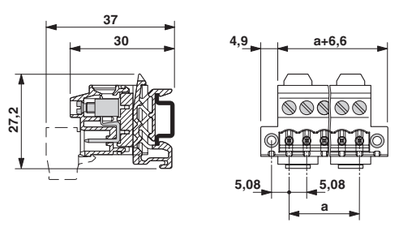
No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		5.08 mm pitch, color: Green		
2	5.08	**MSTBVK 2,5/ 2-G-5,08**	**1788729**	50
3	10.16	**MSTBVK 2,5/ 3-G-5,08**	**1788732**	50
4	15.24	**MSTBVK 2,5/ 4-G-5,08**	**1788745**	50
5	20.32	**MSTBVK 2,5/ 5-G-5,08**	**1788758**	50
6	25.40	**MSTBVK 2,5/ 6-G-5,08**	**1788761**	50
7	30.48	**MSTBVK 2,5/ 7-G-5,08**	**1788774**	50
8	35.56	**MSTBVK 2,5/ 8-G-5,08**	**1788787**	50
9	40.64	**MSTBVK 2,5/ 9-G-5,08**	**1788790**	50
10	45.72	**MSTBVK 2,5/10-G-5,08**	**1788800**	50
11	50.80	**MSTBVK 2,5/11-G-5,08**	**1788813**	50
12	55.88	**MSTBVK 2,5/12-G-5,08**	**1788826**	50
13	60.96	**MSTBVK 2,5/13-G-5,08**	**1788839**	50
14	66.04	**MSTBVK 2,5/14-G-5,08**	**1788842**	50
15	71.12	**MSTBVK 2,5/15-G-5,08**	**1788855**	50
16	76.20	**MSTBVK 2,5/16-G-5,08**	**1788868**	50

Classic plug-in connector with 5.0 to 7.62 mm pitch
Special types



With threaded flange for mounting on NS 15

Dimensional drawing



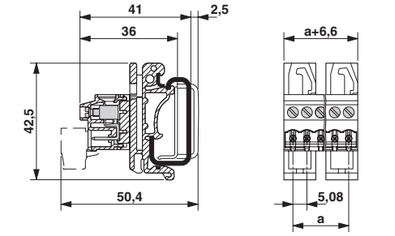
Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MSTBVK 2,5/ 2-GF-5,08	**1788952**	50
MSTBVK 2,5/ 3-GF-5,08	**1788965**	50
MSTBVK 2,5/ 4-GF-5,08	**1788978**	50
MSTBVK 2,5/ 5-GF-5,08	**1788981**	50
MSTBVK 2,5/ 6-GF-5,08	**1788994**	50
MSTBVK 2,5/ 7-GF-5,08	**1789003**	50
MSTBVK 2,5/ 8-GF-5,08	**1803015**	50
MSTBVK 2,5/ 9-GF-5,08	**1803028**	50
MSTBVK 2,5/10-GF-5,08	**1803031**	50
MSTBVK 2,5/11-GF-5,08	**1803044**	50
MSTBVK 2,5/12-GF-5,08	**1803057**	50
MSTBVK 2,5/13-GF-5,08	**1803060**	50
MSTBVK 2,5/14-GF-5,08	**1803073**	50
MSTBVK 2,5/15-GF-5,08	**1803086**	50
MSTBVK 2,5/16-GF-5,08	**1803099**	50



With universal foot for mounting on NS 32 or NS 35

Dimensional drawing



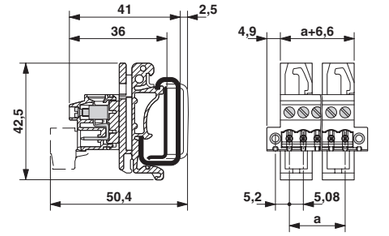
Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
UMSTBVK 2,5/ 2-G-5,08	**1788114**	50
UMSTBVK 2,5/ 3-G-5,08	**1788127**	50
UMSTBVK 2,5/ 4-G-5,08	**1788130**	50
UMSTBVK 2,5/ 5-G-5,08	**1788143**	50
UMSTBVK 2,5/ 6-G-5,08	**1788156**	50
UMSTBVK 2,5/ 7-G-5,08	**1788169**	50
UMSTBVK 2,5/ 8-G-5,08	**1788172**	50
UMSTBVK 2,5/ 9-G-5,08	**1788185**	50
UMSTBVK 2,5/10-G-5,08	**1788198**	50
UMSTBVK 2,5/11-G-5,08	**1788208**	50
UMSTBVK 2,5/12-G-5,08	**1788211**	50
UMSTBVK 2,5/13-G-5,08	**1788224**	50
UMSTBVK 2,5/14-G-5,08	**1788237**	50
UMSTBVK 2,5/15-G-5,08	**1788240**	50
UMSTBVK 2,5/16-G-5,08	**1788253**	50



With threaded flange and universal foot for mounting on NS 32 or NS 35

Dimensional drawing

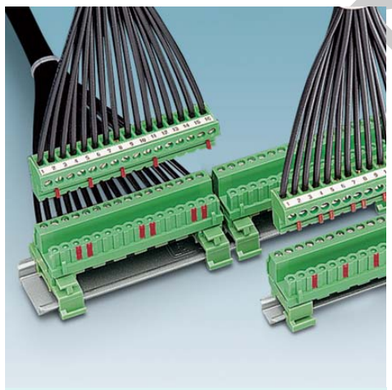


Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
UMSTBVK 2,5/ 2-GF-5,08	**1787924**	50
UMSTBVK 2,5/ 3-GF-5,08	**1787937**	50
UMSTBVK 2,5/ 4-GF-5,08	**1787940**	50
UMSTBVK 2,5/ 5-GF-5,08	**1787953**	50
UMSTBVK 2,5/ 6-GF-5,08	**1787966**	50
UMSTBVK 2,5/ 7-GF-5,08	**1787979**	50
UMSTBVK 2,5/ 8-GF-5,08	**1787982**	50
UMSTBVK 2,5/ 9-GF-5,08	**1787995**	50
UMSTBVK 2,5/10-GF-5,08	**1788004**	50
UMSTBVK 2,5/11-GF-5,08	**1788017**	50
UMSTBVK 2,5/12-GF-5,08	**1788020**	50
UMSTBVK 2,5/13-GF-5,08	**1788033**	50
UMSTBVK 2,5/14-GF-5,08	**1788046**	50
UMSTBVK 2,5/15-GF-5,08	**1788059**	50
UMSTBVK 2,5/16-GF-5,08	**1788062**	50

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Plug-in blocks for rail mounting



- With universal foot for mounting on NS 32 or NS 35 DIN rails
- Versions with and without a threaded flange
- Can be combined with the following plugs:
  IC 2,5/...-ST(F)...
  FKIC 2,5/...-ST(F)...
  FKICS 2,5/...-ST(F)...

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

For DIN rails, see Catalog 5.

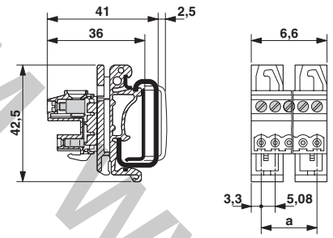
Accessories

For all types	Type	Page
	Marker cards **SK 5,08/3,8**	798
	Keying profile **CP-MSTB** **Order No. 1734634**	38
	Screwdriver **SZS 0,6 x 3,5** **Order No. 1205053**	
	Insertion bridge **EBP...- 5**	829



With universal foot, for mounting on NS 32 or NS 35

Dimensional drawing



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	12 / 2.5		
Rated insulation voltage for pollution degree 2	[V]	320		
Pitch	[mm]	5.08		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 2.5 / 0.2 - 2.5 / 24 - 12		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 2.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 2.5		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	0.2 - 1 / 0.2 - 1.5		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 1		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 1.5		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	320	320	630
Rated surge voltage	[kV]	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	250	-	300
Nominal current	[A]	12	-	10
Connection capacity AWG	AWG	30 - 12	-	30 - 12
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	10	-	10
Connection capacity AWG	AWG	28 - 12	-	28 - 12
General data				
Stripping length	[mm]	7		
Screw thread		M3		
Tightening torque	[Nm]	0.5 - 0.6		
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		

Ordering data

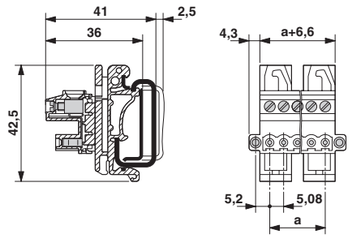
No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		5.08 mm pitch, color: Green		
5	20.32	**UMSTBVK 2,5/ 5-ST-5,08**	**1833849**	50
6	25.40	**UMSTBVK 2,5/ 6-ST-5,08**	**1833852**	50
7	30.48	**UMSTBVK 2,5/ 7-ST-5,08**	**1833865**	50
8	35.56	**UMSTBVK 2,5/ 8-ST-5,08**	**1833878**	50
9	40.64	**UMSTBVK 2,5/ 9-ST-5,08**	**1833881**	50
10	45.72	**UMSTBVK 2,5/10-ST-5,08**	**1833894**	50
11	50.80	**UMSTBVK 2,5/11-ST-5,08**	**1833904**	50
12	55.88	**UMSTBVK 2,5/12-ST-5,08**	**1833917**	50
13	60.96	**UMSTBVK 2,5/13-ST-5,08**	**1833920**	50
14	66.04	**UMSTBVK 2,5/14-ST-5,08**	**1833933**	50
15	71.12	**UMSTBVK 2,5/15-ST-5,08**	**1833946**	50
16	76.20	**UMSTBVK 2,5/16-ST-5,08**	**1833959**	50

Classic plug-in connector with 5.0 to 7.62 mm pitch
Special types



With screw flange and universal foot, For mounting on NS 32 or NS 35

Dimensional drawing

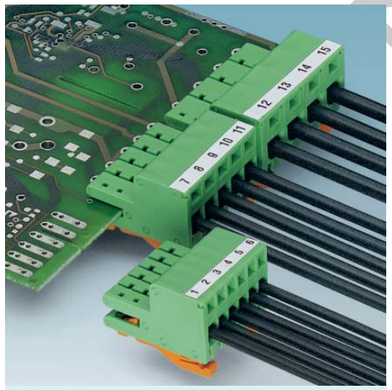


Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
UMSTBVK 2,5/ 5-STF-5,08	**1859205**	50
UMSTBVK 2,5/ 6-STF-5,08	**1859218**	50
UMSTBVK 2,5/ 7-STF-5,08	**1859221**	50
UMSTBVK 2,5/ 8-STF-5,08	**1859234**	50
UMSTBVK 2,5/ 9-STF-5,08	**1859247**	50
UMSTBVK 2,5/10-STF-5,08	**1859250**	50
UMSTBVK 2,5/11-STF-5,08	**1859263**	50
UMSTBVK 2,5/12-STF-5,08	**1859276**	50
UMSTBVK 2,5/13-STF-5,08	**1859289**	50
UMSTBVK 2,5/14-STF-5,08	**1859292**	50
UMSTBVK 2,5/15-STF-5,08	**1859302**	50
UMSTBVK 2,5/16-STF-5,08	**1859315**	50

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ZEC series connectors make contact directly on the PCB



- Contact directly on a 1.6 mm thick PCB without an additional pin strip
- ZEC ST: connector with spring-cage connection
- ZEC LPV: connector for the parallel connection of two PCBs
- A mixture of 3.5/5.0/7.5 mm pitches is possible in one connector
- Larger numbers of positions on request
- Recommended surface for the contact pads: hot air level (HAL) Sn 5 up to 10 µm
- Chamfer in connector area has a positive effect on insertion and withdrawal forces/cycles
- Details about plug-in systems, see page 25

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

[1]) Please observe the derating curves. Derating curves for further ZEC connectors on request.

Accessories

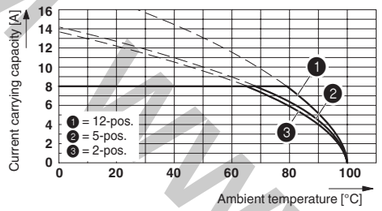
For all types	Type	Page
Only for ZEC 1,0/...-ST-3,5		
	Screwdriver **SZF 0-0,4 x 2,5** **Order No. 1204504**	
	Marker cards **SK 3,5/2,8**	797
Only for ZEC 1,5/...-LPV-5,0		
	Screwdriver **SZF 1-0,6 x 3,5** **Order No. 1204517**	
	Marker cards **SK 5/3,8**	798

Type key

ZEC	1,5	/	2	-ST-	5,0	C2	R1,2
Cross section							
Number of positions [2])							
Pitch							
Coding in pos. 2[3])							
Engagement latch position, pos. 1, 2							

[2]) Number of positions > 12 on request
[3]) Standard:
C 1 with a 3.5 mm pitch
C 2 with 5 and 7.5 mm pitch.
Individual coding on request.

Type: ZEC 1,0/...-ST-3,5
Derating curve, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 1 mm²
Reduction factor = 0.8
Number of positions = see diagram



Technical data

		ZEC 1,0/ ...-ST-3,5 C1 R1			ZEC 1,0/ ...-LPV-3,5 C1			ZEC 1,5/ ...-ST-5,0 C2 R1,2		
Technical data in accordance to IEC / DIN VDE										
Rated current / conductor cross section	[A] / [mm²]	8[1]) / 1			8[1]) / 1			10[1]) / 1.5		
Rated insulation voltage for pollution degree 2	[V]	200			200			320		
Pitch	[mm]	3.5			3.5			5		
Connection capacity										
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 1 / 0.2 - 1 / 24 - 16			- / - / -			0.2 - 1.5 / 0.2 - 1.5 / 24 - 16		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 1			-			0.25 - 1.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 0.75			-			0.25 - 1.5		
Multi-conductor connection capacity (two conductors with the same cross section)										
Solid / stranded	[mm²]	- / -			- / -			- / -		
Stranded with ferrules without plastic sleeve	[mm²]	-			-			-		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 0.5			-			0.5 - 0.5		
Insulation coordination										
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	160	200	320	160	200	320	250	320	630
Rated surge voltage	[kV]	2.5	2.5	2.5	2.5	2.5	2.5	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	150	-	300	150	-	-	300	-	300
Nominal current	[A]	8	-	8	8	-	-	10	-	10
Connection capacity AWG	AWG	26 - 16	-	26 - 16	-	-	-	26 - 14	-	26 - 14
Approval data (CSA)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-	-	-	-
General data										
Stripping length	[mm]	7			-			7		
Type of insulation material / insulation material group		PA / I			PA / I			PA / I		
Inflammability class according to UL 94		V0			V0			V0		

No. of pos.	Dim. a [mm]
2	7.00
3	10.50
4	14.00
5	17.50
6	21.00
7	24.50
8	28.00
9	31.50
10	35.00
11	38.50
12	42.00
2	10.00
3	15.00
4	20.00
5	25.00
6	30.00
7	35.00
8	40.00
9	45.00
10	50.00
11	55.00
12	60.00



Direct connector with 3.5 mm pitch, plug-in direction parallel to the PCB

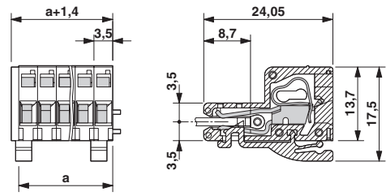


Printed-circuit board connector with 3.5 mm pitch, plug-in direction parallel to the PCB



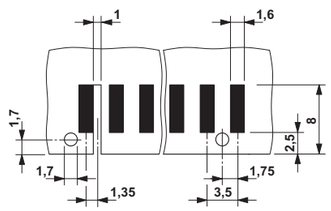
Direct connector with 5.0 mm pitch, plug-in direction parallel to the PCB

Dimensional drawing



Drilling diagram

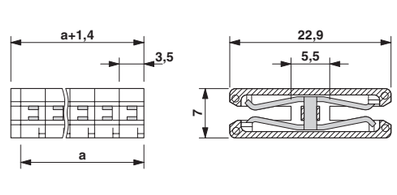
Size of the PCB: 1.6 ± 0.2 mm



Ordering data

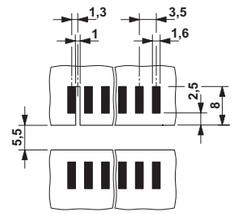
Type	Order No.	Pcs. / Pkt.
Direct plug connector, 3.5 mm pitch, color: Green		
ZEC 1,0/ 2-ST-3,5 C1 R1	1893685	50
ZEC 1,0/ 3-ST-3,5 C1 R1,3	1893698	50
ZEC 1,0/ 4-ST-3,5 C1 R1,4	1893708	50
ZEC 1,0/ 5-ST-3,5 C1 R1,5	1893711	50
ZEC 1,0/ 6-ST-3,5 C1 R1,6	1893724	50
ZEC 1,0/ 7-ST-3,5 C1 R1,7	1893737	50
ZEC 1,0/ 8-ST-3,5 C1 R1,8	1893740	50
ZEC 1,0/ 9-ST-3,5 C1 R1,9	1893753	50
ZEC 1,0/10-ST-3,5 C1 R1,10	1893766	50
ZEC 1,0/11-ST-3,5 C1 R1,11	1893779	50
ZEC 1,0/12-ST-3,5 C1 R1,12	1893782	50

Dimensional drawing



Drilling diagram

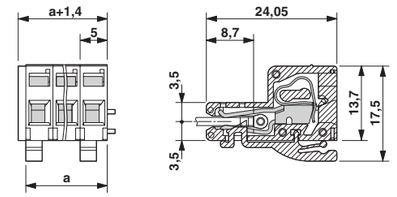
Size of the PCB: 1.6 ± 0.2 mm



Ordering data

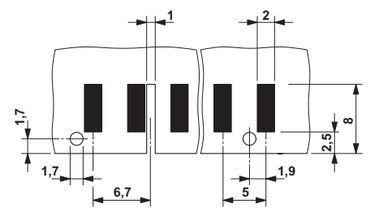
Type	Order No.	Pcs. / Pkt.
PCB connector, 3.5 mm pitch, color: Green		
ZEC 1,0/ 2-LPV-3,5 C1	1915657	50
ZEC 1,0/ 3-LPV-3,5 C1	1915660	50
ZEC 1,0/ 4-LPV-3,5 C1	1915673	50
ZEC 1,0/ 5-LPV-3,5 C1	1915686	50
ZEC 1,0/ 6-LPV-3,5 C1	1915699	50
ZEC 1,0/ 7-LPV-3,5 C1	1915709	50
ZEC 1,0/ 8-LPV-3,5 C1	1915712	50
ZEC 1,0/ 9-LPV-3,5 C1	1915725	50
ZEC 1,0/10-LPV-3,5 C1	1915738	50
ZEC 1,0/11-LPV-3,5 C1	1915741	50
ZEC 1,0/12-LPV-3,5 C1	1915754	50

Dimensional drawing



Drilling diagram

Size of the PCB: 1.6 ± 0.2 mm

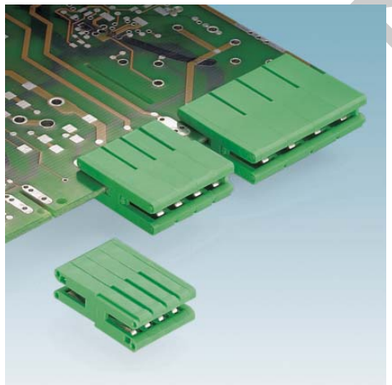


Ordering data

Type	Order No.	Pcs. / Pkt.
Direct plug connector, pitch 5.0 mm, color: Green		
ZEC 1,5/ 2-ST-5,0 C2 R1,2	1883048	50
ZEC 1,5/ 3-ST-5,0 C2 R1,3	1883051	50
ZEC 1,5/ 4-ST-5,0 C2 R1,4	1883064	50
ZEC 1,5/ 5-ST-5,0 C2 R1,5	1883077	50
ZEC 1,5/ 6-ST-5,0 C2 R1,6	1883080	50
ZEC 1,5/ 7-ST-5,0 C2 R1,7	1883093	50
ZEC 1,5/ 8-ST-5,0 C2 R1,8	1883103	50
ZEC 1,5/ 9-ST-5,0 C2 R1,9	1883116	50
ZEC 1,5/10-ST-5,0 C2 R1,10	1883129	50
ZEC 1,5/11-ST-5,0 C2 R1,11	1883132	50
ZEC 1,5/12-ST-5,0 C2 R1,12	1883802	50

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ZEC series connectors make contact directly on the PCB



- ZEC...7,5: Plug connectors for applications with higher voltage
- Contact directly on a 1.6 mm thick PCB without an additional pin strip
- ZEC ST: connector with spring-cage connection
- ZEC LPV: connector for the parallel connection of two PCBs
- A mixture of 3.5/5.0/7.5 mm pitches is possible in one connector
- Recommended surface for the contact pads: hot air level (HAL) Sn 5 up to 10 µm
- Chamfer in connector area has a positive effect on insertion and withdrawal forces/cycles
- Larger numbers of positions on request
- Details about plug-in systems, see page 25

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

[1]) Please observe the derating curves. Derating curves for further ZEC connectors on request.

Type key

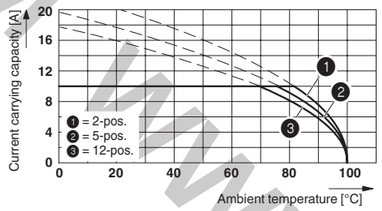
ZEC	1,5	/	2	-ST-	5,0	C2	R1,2
Cross section							
Number of positions [2])							
Pitch							
Coding in pos. 2[3])							
Engagement latch position, pos. 1, 2							

[2]) Number of positions > 12 on request
[3]) Standard:
C 1 with a 3.5 mm pitch
C 2 with 5 and 7.5 mm pitch.
Individual coding on request.

Accessories

For all types	Type	Page
Only for ZEC 1,5/...-ST-7,5 and ZEC 1,5/...-LPV-7,5		
	Screwdriver **SZF 1-0,6 x 3,5** **Order No. 1204517**	
	Marker cards **SK 7,5/3,8**	799
Only for ZEC 1,5/...-ST-5,0		
	Marker cards **SK 5/3,8**	798

Type: ZEC 1,5/...-ST-7,5
Derating curve, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 1.5 mm²
Reduction factor = 0.8
Number of positions = see diagram



Technical data

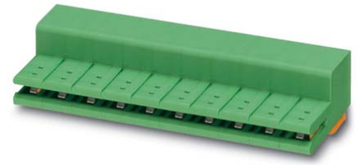
		ZEC 1,5/ ...-LPV-5,0 C2			ZEC 1,5/ ...-ST-7,5 C2 R1,2			ZEC 1,5/ ...-LPV-7,5 C2		
Technical data in accordance to IEC / DIN VDE										
Rated current / conductor cross section	[A] / [mm²]	10[1]) / 1.5			10[1]) / 1.5			10[1]) / 1.5		
Rated insulation voltage for pollution degree 2	[V]	320			630			630		
Pitch	[mm]	5			7.5			7.5		
Connection capacity										
Solid / stranded	[mm²] / [mm²] / AWG	- / - / -			0.2 - 1.5 / 0.2 - 1.5 / 24 - 16			- / - / -		
Stranded with ferrules without plastic sleeve	[mm²]	-			0.25 - 1.5			-		
Stranded with ferrules with plastic sleeve	[mm²]	-			0.25 - 1.5			-		
Multi-conductor connection capacity (two conductors with the same cross section)										
Solid / stranded	[mm²]	- / -			- / -			- / -		
Stranded with ferrules without plastic sleeve	[mm²]	-			-			-		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	-			0.5 - 0.5			-		
Insulation coordination										
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250	320	630	400	630	1000	400	630	1000
Rated surge voltage	[kV]	4	4	4	6	6	6	6	6	6
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	300	-	300	300	-	300	300	-	300
Nominal current	[A]	10	-	10	10	-	10	10	-	10
Connection capacity AWG	AWG	-	-	-	26 - 14	-	26 - 14	-	-	-
Approval data (CSA)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-	-	-	-
General data										
Type of insulation material / insulation material group		PA / I			PA / I			PA / I		
Inflammability class according to UL 94		V0			V0			V0		

No. of pos.	Dim. a [mm]
2	10.00
3	15.00
4	20.00
5	25.00
6	30.00
7	35.00
8	40.00
2	15.00
3	22.50
4	30.00
5	37.50
6	45.00
7	52.50
8	60.00
9	67.50
10	75.00
11	82.50
12	90.00

Classic plug-in connector with 5.0 to 7.62 mm pitch
Special types



Printed-circuit board connector with 5.0 mm pitch, plug-in direction parallel to the PCB

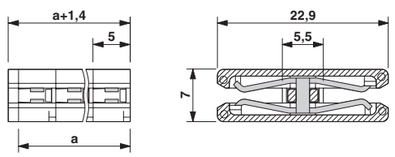


Direct connector with 7.5 mm pitch, plug-in direction parallel to the PCB



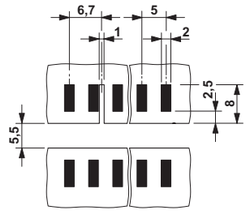
Printed-circuit board connector with 7.5 mm pitch, plug-in direction parallel to the PCB

Dimensional drawing



Drilling diagram

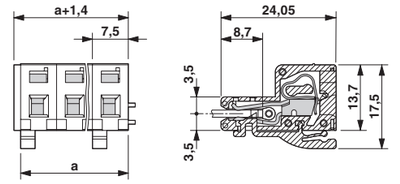
Size of the PCB: 1.6 ± 0.2 mm



Ordering data

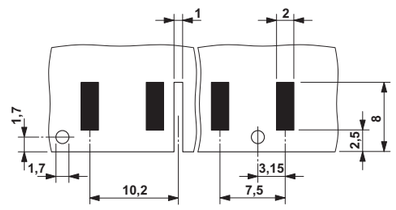
Type	Order No.	Pcs. / Pkt.
PCB connector, 5.0 mm pitch, color: Green		
ZEC 1,5/ 2-LPV-5,0 C2	1898266	50
ZEC 1,5/ 3-LPV-5,0 C2	1898279	50
ZEC 1,5/ 4-LPV-5,0 C2	1898282	50
ZEC 1,5/ 5-LPV-5,0 C2	1898295	50
ZEC 1,5/ 6-LPV-5,0 C2	1898305	50
ZEC 1,5/ 7-LPV-5,0 C2	1898318	50
ZEC 1,5/ 8-LPV-5,0 C2	1898321	50

Dimensional drawing



Drilling diagram

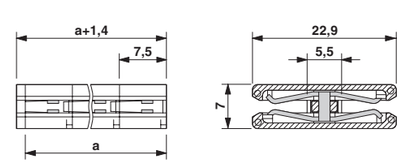
Size of the PCB: 1.6 ± 0.2 mm



Ordering data

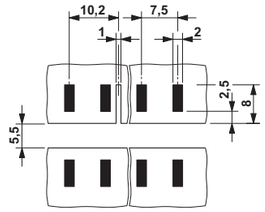
Type	Order No.	Pcs. / Pkt.
Direct plug connector, 7.5 mm pitch, color: Green		
ZEC 1,5/ 2-ST-7,5 C2 R1,2	1883145	50
ZEC 1,5/ 3-ST-7,5 C2 R1,3	1883158	50
ZEC 1,5/ 4-ST-7,5 C2 R1,4	1883161	50
ZEC 1,5/ 5-ST-7,5 C2 R1,5	1883174	50
ZEC 1,5/ 6-ST-7,5 C2 R1,6	1883187	50
ZEC 1,5/ 7-ST-7,5 C2 R1,7	1883190	50
ZEC 1,5/ 8-ST-7,5 C2 R1,8	1883200	50
ZEC 1,5/ 9-ST-7,5 C2 R1,9	1883213	50
ZEC 1,5/10-ST-7,5 C2 R1,10	1883226	50
ZEC 1,5/11-ST-7,5 C2 R1,11	1883239	50
ZEC 1,5/12-ST-7,5 C2 R1,12	1883242	50

Dimensional drawing



Drilling diagram

Size of the PCB: 1.6 ± 0.2 mm

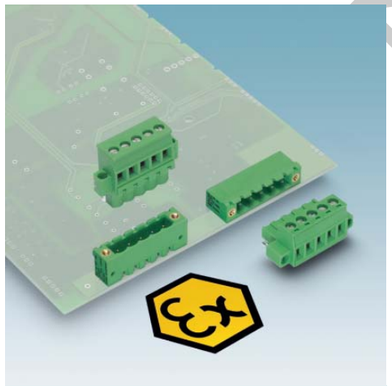


Ordering data

Type	Order No.	Pcs. / Pkt.
PCB connector, 7.5 mm pitch, color: Green		
ZEC 1,5/ 2-LPV-7,5 C2	1898376	50
ZEC 1,5/ 3-LPV-7,5 C2	1898389	50
ZEC 1,5/ 4-LPV-7,5 C2	1898392	50
ZEC 1,5/ 5-LPV-7,5 C2	1898402	50
ZEC 1,5/ 6-LPV-7,5 C2	1898415	50
ZEC 1,5/ 7-LPV-7,5 C2	1898428	50
ZEC 1,5/ 8-LPV-7,5 C2	1898431	50

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Plugs with screw connection with 5.08 mm pitch



- Hazardous area approval for voltages up to 176 V
- Plug-in direction parallel and vertical to the conductor axis
- Versions with screw flange
- Can be combined with MSTB(V) 2,5/...-GF-5,08 EX
- For more application and installation instructions, please go to the hazardous area section at **www.phoenixcontact.net/products** and see page 40

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

The maximum torque for the screw flange is 0.3 Nm.

Accessories

For all types	Type	Page
	Keying profile **CP-MSTB Order No. 1734634**	38
	Marker cards **SK 5,08/3,8**	798
	Screwdriver **SZS 0,6 x 3,5 Order No. 1205053**	

Technical data

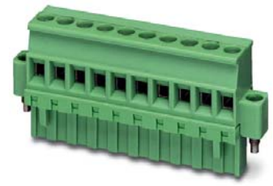
	MSTB 2,5/ ...-STF-5,08 EX	MVSTBR 2,5/ ...-STF-5,08 EX	MVSTBW 2,5/ ...-STF-5,08 EX
Ex e terminal blocks as per EN/IEC 60079-0 and EN/IEN 60079-7			
Ex marking ATEX-RL / IEC60079-0	0344 Ex II 2GD Ex e IIC Gb	0344 Ex II 2GD Ex e IIC Gb	0344 Ex II 2GD Ex e IIC Gb
Examination certificate	KEMA 10ATEX0196 U	KEMA 10ATEX0196 U	KEMA 10ATEX0196 U
IECEx certificate	IECEx KEM 10.0093U	IECEx KEM 10.0093U	IECEx KEM 10.0093U
Rated voltage [V]	176	176	176
Rated current [A] / [2.5 mm²]	12	12	12
Connection capacity			
Solid / stranded [mm²]	0.2 - 2.5 / 0.2 - 2.5	0.2 - 2.5 / 0.2 - 2.5	0.2 - 2.5 / 0.2 - 2.5
Solid / stranded AWG	- / 24 - 12	- / 24 - 12	- / 24 - 12
General data			
Stripping length [mm]	7	7	7
Screw thread	M3	M3	M3
Tightening torque [Nm]	0.5 - 0.6	0.5 - 0.6	0.5 - 0.6
Type of insulation material / insulation material group	PA / I	PA / I	PA / I
Inflammability class according to UL 94	V0	V0	V0
Drill hole diameter / pin dimensions [mm]	- / -	- / -	- / -

No. of pos.	Dim. a [mm]
2	5.08
3	10.16
4	15.24
5	20.32
6	25.40
7	30.48
8	35.56
9	40.64
10	45.72
11	50.80
12	55.88

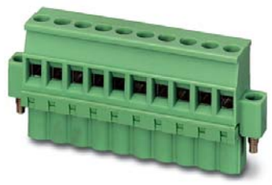
Classic plug-in connector with 5.0 to 7.62 mm pitch
CLASSIC COMBICON connectors for the Ex area with 5.08 and 7.62 mm pitch



With screw flange



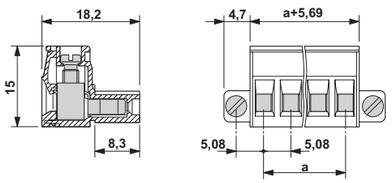
Conductor entry facing keying side, with screw flange



Conductor entry facing the rippled side, with screw flange

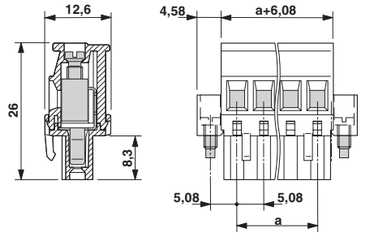
Ex:

Dimensional drawing



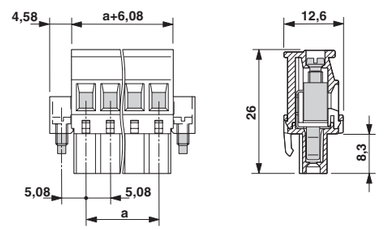
Ex:

Dimensional drawing



Ex:

Dimensional drawing



Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MSTB 2,5/ 2-STF-5,08 EX	**1795556**	50
MSTB 2,5/ 3-STF-5,08 EX	**1795569**	50
MSTB 2,5/ 4-STF-5,08 EX	**1795572**	50
MSTB 2,5/ 5-STF-5,08 EX	**1795585**	50
MSTB 2,5/ 6-STF-5,08 EX	**1795598**	50
MSTB 2,5/ 7-STF-5,08 EX	**1795608**	50
MSTB 2,5/ 8-STF-5,08 EX	**1795611**	50
MSTB 2,5/ 9-STF-5,08 EX	**1795624**	50
MSTB 2,5/10-STF-5,08 EX	**1795637**	50
MSTB 2,5/11-STF-5,08 EX	**1795640**	50
MSTB 2,5/12-STF-5,08 EX	**1795653**	50

Ordering data

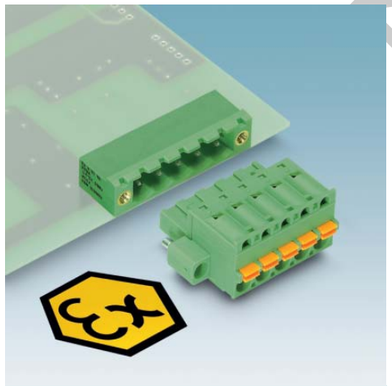
Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MVSTBR 2,5/ 2-STF-5,08 EX	**1809678**	50
MVSTBR 2,5/ 3-STF-5,08 EX	**1809681**	50
MVSTBR 2,5/ 4-STF-5,08 EX	**1809694**	50
MVSTBR 2,5/ 5-STF-5,08 EX	**1809704**	50
MVSTBR 2,5/ 6-STF-5,08 EX	**1809717**	50
MVSTBR 2,5/ 7-STF-5,08 EX	**1809720**	50
MVSTBR 2,5/ 8-STF-5,08 EX	**1809733**	50
MVSTBR 2,5/ 9-STF-5,08 EX	**1809746**	50
MVSTBR 2,5/10-STF-5,08 EX	**1809759**	50
MVSTBR 2,5/11-STF-5,08 EX	**1809762**	50
MVSTBR 2,5/12-STF-5,08 EX	**1809775**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MVSTBW 2,5/ 2-STF-5,08 EX	**1809788**	50
MVSTBW 2,5/ 3-STF-5,08 EX	**1809791**	50
MVSTBW 2,5/ 4-STF-5,08 EX	**1809801**	50
MVSTBW 2,5/ 5-STF-5,08 EX	**1809814**	50
MVSTBW 2,5/ 6-STF-5,08 EX	**1809827**	50
MVSTBW 2,5/ 7-STF-5,08 EX	**1809830**	50
MVSTBW 2,5/ 8-STF-5,08 EX	**1809843**	50
MVSTBW 2,5/ 9-STF-5,08 EX	**1809856**	50
MVSTBW 2,5/10-STF-5,08 EX	**1809869**	50
MVSTBW 2,5/11-STF-5,08 EX	**1809872**	50
MVSTBW 2,5/12-STF-5,08 EX	**1809885**	50

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Plugs with push-in spring connection, 5.08 mm pitch



- Hazardous area approval for voltages up to 176 V
- Plug-in direction parallel to the conductor axis
- Versions with screw flange and self-locking flange

FKC 2,5/...-STF-5,08 EX
- Can be combined with MSTB(V) 2,5/...-GF-5,08 EX

FKC 2,5/...-ST-5,08-RF EX
- Can be combined with MSTB(V)A 2,5/...-G-5,08-RN EX
- For more application and installation instructions, please go to the hazardous area section at **www.phoenixcontact.net/products** and see page 40

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

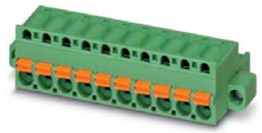
The maximum torque for the screw flange is 0.3 Nm.

Accessories

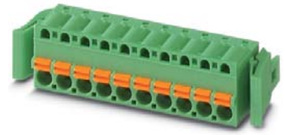
For all types	Type	Page
	Keying profile **CP-MSTB** **Order No. 1734634**	38
	Marker cards **SK 5,08/3,8**	798
	Strain relief **STZ ...-FKC-5,08**	837
	Test plug **MPS**	831

Technical data

		FKC 2,5/ ...-STF-5,08 EX	FKC 2,5/ ...-ST-5,08-RF EX
Ex e terminal blocks as per EN/IEC 60079-0 and EN/IEN 60079-7			
Ex marking	ATEX-RL / IEC60079-0	0344 Ex II 2GD Ex e IIC Gb	0344 Ex II 2GD Ex e IIC Gb
Examination certificate		KEMA 10ATEX0196 U	KEMA 10ATEX0196 U
IECEx certificate		IECEx KEM 10.0093U	IECEx KEM 10.0093U
Rated voltage	[V]	176	176
Rated current	[A] / [2.5 mm²]	12	12
Connection capacity			
Solid / stranded	[mm²]	0.2 - 2.5 / 0.2 - 2.5	0.2 - 2.5 / 0.2 - 2.5
Solid / stranded	AWG	- / 24 - 12	- / 24 - 12
General data			
Stripping length	[mm]	10	10
Screw thread		-	-
Tightening torque	[Nm]	-	-
Type of insulation material / insulation material group		PA / I	PA / I
Inflammability class according to UL 94		V0	V0
Drill hole diameter / pin dimensions	[mm]	- / -	- / -



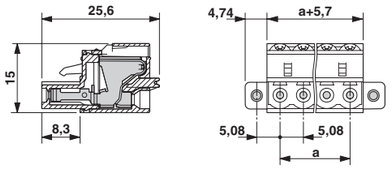
With screw flange



With self-locking flange

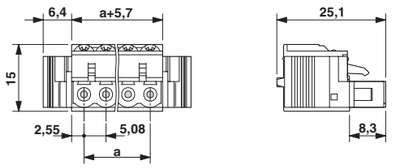
Ex:

Dimensional drawing



Ex:

Dimensional drawing



No. of pos.	Dim. a [mm]
2	5.08
3	10.16
4	15.24
5	20.32
6	25.40
7	30.48
8	35.56
9	40.64
10	45.72
11	50.80
12	55.88

Ordering data

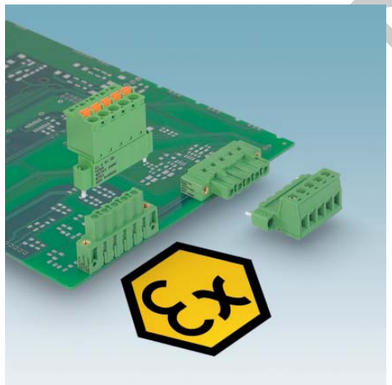
Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
FKC 2,5/ 2-STF-5,08 EX	**1795996**	50
FKC 2,5/ 3-STF-5,08 EX	**1796005**	50
FKC 2,5/ 4-STF-5,08 EX	**1796018**	50
FKC 2,5/ 5-STF-5,08 EX	**1796021**	50
FKC 2,5/ 6-STF-5,08 EX	**1796034**	50
FKC 2,5/ 7-STF-5,08 EX	**1796047**	50
FKC 2,5/ 8-STF-5,08 EX	**1796050**	50
FKC 2,5/ 9-STF-5,08 EX	**1796063**	50
FKC 2,5/10-STF-5,08 EX	**1796076**	50
FKC 2,5/11-STF-5,08 EX	**1796089**	50
FKC 2,5/12-STF-5,08 EX	**1796092**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
FKC 2,5/ 2-ST-5,08-RF EX	**1796102**	50
FKC 2,5/ 3-ST-5,08-RF EX	**1796115**	50
FKC 2,5/ 4-ST-5,08-RF EX	**1796128**	50
FKC 2,5/ 5-ST-5,08-RF EX	**1796131**	50
FKC 2,5/ 6-ST-5,08-RF EX	**1796144**	50
FKC 2,5/ 7-ST-5,08-RF EX	**1796157**	50
FKC 2,5/ 8-ST-5,08-RF EX	**1796160**	50
FKC 2,5/ 9-ST-5,08-RF EX	**1796173**	50
FKC 2,5/10-ST-5,08-RF EX	**1796186**	50
FKC 2,5/11-ST-5,08-RF EX	**1796199**	50
FKC 2,5/12-ST-5,08-RF EX	**1796209**	50

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Inverted plugs for the Ex area with 5.08 mm pitch



- Hazardous area approval for voltages up to 176 V
- Plug-in direction parallel to the conductor axis
- Can be combined with IC(V) 2,5/...-GF-5,08 EX
- For more application and installation instructions, please go to the hazardous area section at **www.phoenixcontact.net/products** and see page 40

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

The maximum torque for the screw flange is 0.3 Nm.

Accessories

For all types	Type	Page
	Keying profile **CP-MSTB** **Order No. 1734634**	38
	Marker cards **SK 5,08/3,8**	798
Only for IC 2,5/...-STF-5,08 EX		
	Screwdriver **SZS 0,6 x 3,5** **Order No. 1205053**	
Only for FKIC 2,5/...STF-5,08 EX		
	Strain relief **STZ ...-FKC-5,08**	837
	Test plug **MPS**	831

Technical data

		IC 2,5/ ...-STF-5,08 EX	FKIC 2,5/ ...-STF-5,08 EX
Ex e terminal blocks as per EN/IEC 60079-0 and EN/IEN 60079-7			
Ex marking	ATEX-RL / IEC60079-0	0344 Ex II 2GD Ex e IIC Gb	0344 Ex II 2GD Ex e IIC Gb
Examination certificate		KEMA 10ATEX0196 U	KEMA 10ATEX0196 U
IECEx certificate		IECEx KEM 10.0093U	IECEx KEM 10.0093U
Rated voltage	[V]	176	176
Rated current	[A] / [2.5 mm²]	12	12
Connection capacity			
Solid / stranded	[mm²]	0.2 - 2.5 / 0.2 - 2.5	0.2 - 2.5 / 0.2 - 2.5
Solid / stranded	AWG	- / 24 - 12	- / 24 - 12
General data			
Stripping length	[mm]	7	10
Screw thread		M3	-
Tightening torque	[Nm]	0.5 - 0.6	-
Type of insulation material / insulation material group		PA / I	PA / I
Inflammability class according to UL 94		V0	V0
Drill hole diameter / pin dimensions	[mm]	- / -	- / -

Classic plug-in connector with 5.0 to 7.62 mm pitch
CLASSIC COMBICON connectors for the Ex area with 5.08 and 7.62 mm pitch



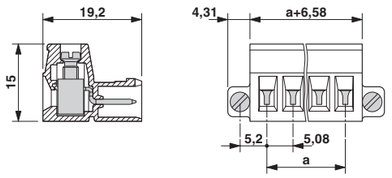
With screw connection and screw flange



With Push-in spring connection and screw flange

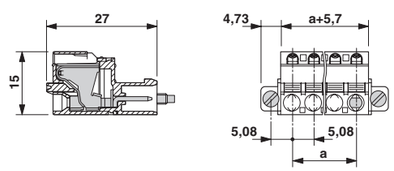
Ex:

Dimensional drawing



Ex:

Dimensional drawing



No. of pos.	Dim. a [mm]
2	5.08
3	10.16
4	15.24
5	20.32
6	25.40
7	30.48
8	35.56
9	40.64
10	45.72
11	50.80
12	55.88

Ordering data

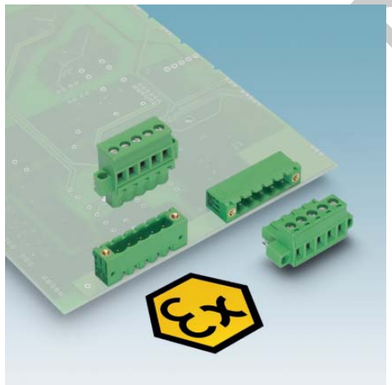
Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
IC 2,5/ 2-STF-5,08 EX	**1810117**	50
IC 2,5/ 3-STF-5,08 EX	**1810120**	50
IC 2,5/ 4-STF-5,08 EX	**1810133**	50
IC 2,5/ 5-STF-5,08 EX	**1810146**	50
IC 2,5/ 6-STF-5,08 EX	**1810159**	50
IC 2,5/ 7-STF-5,08 EX	**1810162**	50
IC 2,5/ 8-STF-5,08 EX	**1810175**	50
IC 2,5/ 9-STF-5,08 EX	**1810188**	50
IC 2,5/10-STF-5,08 EX	**1810191**	50
IC 2,5/11-STF-5,08 EX	**1810201**	50
IC 2,5/12-STF-5,08 EX	**1810214**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
FKIC 2,5/ 2-STF-5,08 EX	**1810227**	50
FKIC 2,5/ 3-STF-5,08 EX	**1810230**	50
FKIC 2,5/ 4-STF-5,08 EX	**1810243**	50
FKIC 2,5/ 5-STF-5,08 EX	**1810256**	50
FKIC 2,5/ 6-STF-5,08 EX	**1810269**	50
FKIC 2,5/ 7-STF-5,08 EX	**1810272**	50
FKIC 2,5/ 8-STF-5,08 EX	**1810285**	50
FKIC 2,5/ 9-STF-5,08 EX	**1810298**	50
FKIC 2,5/10-STF-5,08 EX	**1810308**	50
FKIC 2,5/11-STF-5,08 EX	**1810311**	50
FKIC 2,5/12-STF-5,08 EX	**1810324**	50

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A header with a 5.08 mm pitch for wave soldering processes



- Hazardous area approval for voltages up to 176 V
- Versions with threaded flange and engagement nose
- For more application and installation instructions, please go to the hazardous area section at **www.phoenixcontact.net/products** and see page 40

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

Mounting screws for base element with threaded flange (....GF...): sheet metal screw ISO 1481-ST 2,2x6,5 C or ISO 7049-ST 2,2x6,5 C. Screw connection only permitted prior to soldering.

Accessories

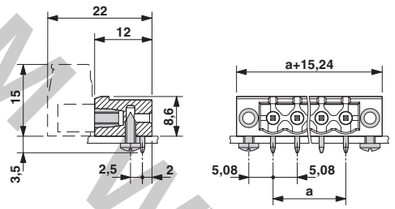
For all types	Type	Page
	Keying section **CR-MSTB** **Order No. 1734401**	38
	Marker cards **SK 5,08/3,8**	798



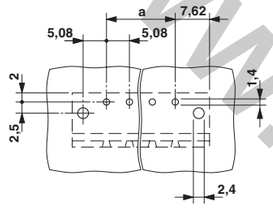
With threaded flange, plug-in direction parallel to the PCB

Ex:

Dimensional drawing



Drilling diagram



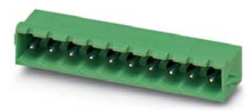
Technical data

Ex e terminal blocks as per EN/IEC 60079-0 and EN/IEN 60079-7		
Ex marking	ATEX-RL / IEC60079-0	0344 Ex II 2GD Ex e IIC Gb
Examination certificate		KEMA 10ATEX0196 U
IECEx certificate		IECEx KEM 10.0093U
Rated voltage	[V]	176
Rated current	[A] / [2.5 mm²]	12
Connection capacity		
Solid / stranded	[mm²]	- / -
Solid / stranded	AWG	- / -
General data		
Stripping length	[mm]	-
Screw thread		-
Tightening torque	[Nm]	-
Type of insulation material / insulation material group		PA / I
Inflammability class according to UL 94		V0
Drill hole diameter / pin dimensions	[mm]	1.4 / 1 x 1 mm

No. of pos.	Dim. a [mm]
2	5.08
3	10.16
4	15.24
5	20.32
6	25.40
7	30.48
8	35.56
9	40.64
10	45.72
11	50.80
12	55.88

Ordering data

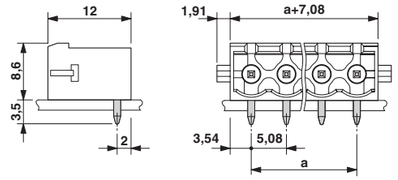
Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MSTB 2,5/ 2-GF-5,08 EX	1795666	50
MSTB 2,5/ 3-GF-5,08 EX	1795679	50
MSTB 2,5/ 4-GF-5,08 EX	1795682	50
MSTB 2,5/ 5-GF-5,08 EX	1795695	50
MSTB 2,5/ 6-GF-5,08 EX	1795705	50
MSTB 2,5/ 7-GF-5,08 EX	1795718	50
MSTB 2,5/ 8-GF-5,08 EX	1795721	50
MSTB 2,5/ 9-GF-5,08 EX	1795734	50
MSTB 2,5/10-GF-5,08 EX	1795747	50
MSTB 2,5/11-GF-5,08 EX	1795750	50
MSTB 2,5/12-GF-5,08 EX	1795763	50



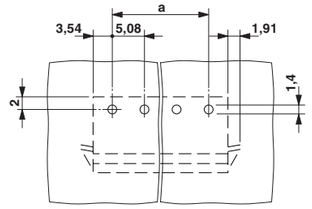
With engagement noses, plug-in direction parallel to the PCB

Ex:

Dimensional drawing

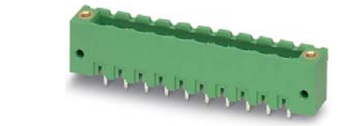


Drilling diagram



Ordering data

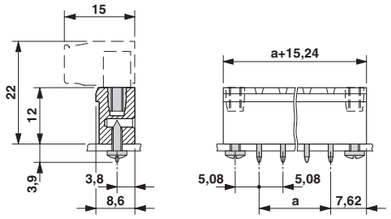
Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MSTBA 2,5/ 2-G-5,08-RN EX	1796432	50
MSTBA 2,5/ 3-G-5,08-RN EX	1796445	50
MSTBA 2,5/ 4-G-5,08-RN EX	1796458	50
MSTBA 2,5/ 5-G-5,08-RN EX	1796461	50
MSTBA 2,5/ 6-G-5,08-RN EX	1796474	50
MSTBA 2,5/ 7-G-5,08-RN EX	1796487	50
MSTBA 2,5/ 8-G-5,08-RN EX	1796490	50
MSTBA 2,5/ 9-G-5,08-RN EX	1796500	50
MSTBA 2,5/10-G-5,08-RN EX	1796513	50
MSTBA 2,5/11-G-5,08-RN EX	1796526	50
MSTBA 2,5/12-G-5,08-RN EX	1796539	50



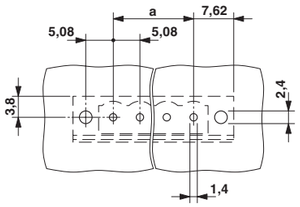
With threaded flange, plug-in direction vertical to the PCB

Ex:

Dimensional drawing

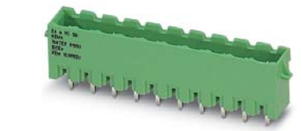


Drilling diagram



Ordering data

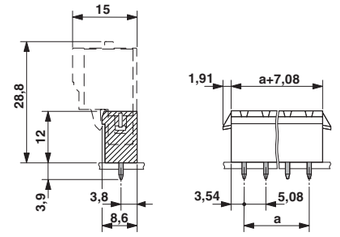
Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MSTBV 2,5/ 2-GF-5,08 EX	1796322	50
MSTBV 2,5/ 3-GF-5,08 EX	1796335	50
MSTBV 2,5/ 4-GF-5,08 EX	1796348	50
MSTBV 2,5/ 5-GF-5,08 EX	1796351	50
MSTBV 2,5/ 6-GF-5,08 EX	1796364	50
MSTBV 2,5/ 7-GF-5,08 EX	1796377	50
MSTBV 2,5/ 8-GF-5,08 EX	1796380	50
MSTBV 2,5/ 9-GF-5,08 EX	1796393	50
MSTBV 2,5/10-GF-5,08 EX	1796403	50
MSTBV 2,5/11-GF-5,08 EX	1796416	50
MSTBV 2,5/12-GF-5,08 EX	1796429	50



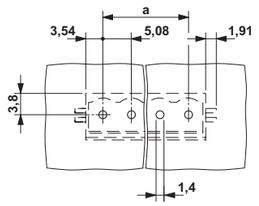
With engagement noses, plug-in direction vertical to the PCB

Ex:

Dimensional drawing



Drilling diagram

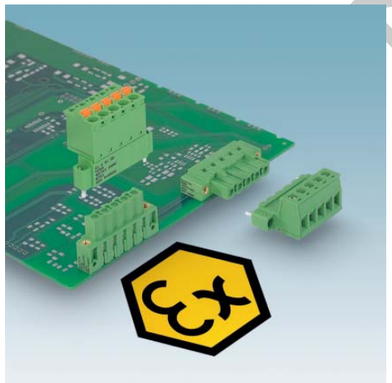


Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
MSTBVA 2,5/ 2-G-5,08-RN EX	1796555	50
MSTBVA 2,5/ 3-G-5,08-RN EX	1796568	50
MSTBVA 2,5/ 4-G-5,08-RN EX	1796571	50
MSTBVA 2,5/ 5-G-5,08-RN EX	1796584	50
MSTBVA 2,5/ 6-G-5,08-RN EX	1796597	50
MSTBVA 2,5/ 7-G-5,08-RN EX	1796607	50
MSTBVA 2,5/ 8-G-5,08-RN EX	1796610	50
MSTBVA 2,5/ 9-G-5,08-RN EX	1796623	50
MSTBVA 2,5/10-G-5,08-RN EX	1796636	50
MSTBVA 2,5/11-G-5,08-RN EX	1796649	50
MSTBVA 2,5/12-G-5,08-RN EX	1796652	50

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Inverted headers for wave soldering processes with 5.08 mm pitch



- Hazardous area approval for voltages up to 176 V
- Headers for wave soldering processes
- For more application and installation instructions, please go to the hazardous area section at **www.phoenixcontact.net/products** and see page 40

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

Mounting screws for base element with threaded flange (....GF...): sheet metal screw ISO 1481-ST 2,2x6,5 C or ISO 7049-ST 2,2x6,5 C. Screw connection only permitted prior to soldering.

Accessories

For all types	Type	Page
	Keying profile **CP-MSTB** **Order No. 1734634**	38
	Marker cards **SK 5,08/3,8**	798
	Reducing plug **RPS** **Order No. 0201647**	831
	Test plug **MPS**	831

Technical data

		IC 2,5/ ...-GF-5,08 EX	ICV 2,5/ ...-GF-5,08 EX
Ex e terminal blocks as per EN/IEC 60079-0 and EN/IEN 60079-7			
Ex marking	ATEX-RL / IEC60079-0	0344 Ex II 2GD Ex e IIC Gb	0344 Ex II 2GD Ex e IIC Gb
Examination certificate		KEMA 10ATEX0196 U	KEMA 10ATEX0196 U
IECEx certificate		IECEx KEM 10.0093U	IECEx KEM 10.0093U
Rated voltage	[V]	176	176
Rated current	[A] / [2.5 mm²]	12	12
Connection capacity			
Solid / stranded	[mm²]	- / -	- / -
Solid / stranded	AWG	- / -	- / -
General data			
Stripping length	[mm]	-	-
Screw thread		-	-
Tightening torque	[Nm]	-	-
Type of insulation material / insulation material group		PA / I	PA / I
Inflammability class according to UL 94		V0	V0
Drill hole diameter / pin dimensions	[mm]	1.4 / 1,2 x 0,5	1.4 / 1,2 x 0,5

No. of pos.	Dim. a [mm]
2	5.08
3	10.16
4	15.24
5	20.32
6	25.40
7	30.48
8	35.56
9	40.64
10	45.72
11	50.80
12	55.88

Classic plug-in connector with 5.0 to 7.62 mm pitch
CLASSIC COMBICON connectors for the Ex area with 5.08 and 7.62 mm pitch



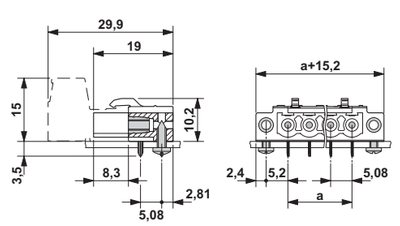
With threaded flange, plug-in direction parallel to the PCB



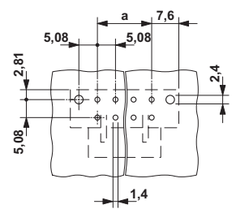
With threaded flange, plug-in direction vertical to the PCB

Ex:

Dimensional drawing



Drilling diagram

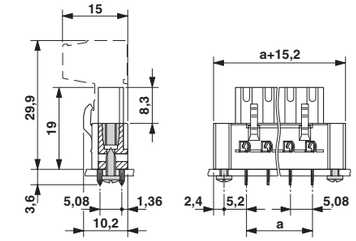


Ordering data

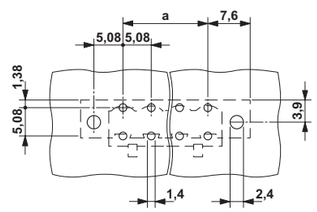
Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
IC 2,5/ 2-GF-5,08 EX	**1810337**	50
IC 2,5/ 3-GF-5,08 EX	**1810340**	50
IC 2,5/ 4-GF-5,08 EX	**1810353**	50
IC 2,5/ 5-GF-5,08 EX	**1810366**	50
IC 2,5/ 6-GF-5,08 EX	**1810379**	50
IC 2,5/ 7-GF-5,08 EX	**1810382**	50
IC 2,5/ 8-GF-5,08 EX	**1810395**	50
IC 2,5/ 9-GF-5,08 EX	**1810405**	50
IC 2,5/10-GF-5,08 EX	**1810418**	50
IC 2,5/11-GF-5,08 EX	**1810421**	50
IC 2,5/12-GF-5,08 EX	**1810434**	50

Ex:

Dimensional drawing



Drilling diagram

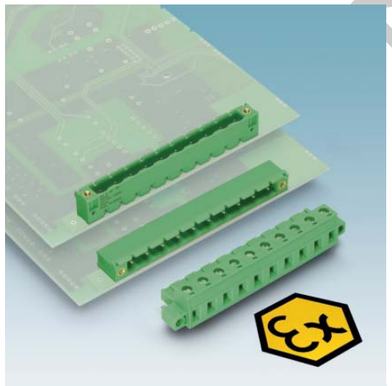


Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
ICV 2,5/ 2-GF-5,08 EX	**1810447**	50
ICV 2,5/ 3-GF-5,08 EX	**1810450**	50
ICV 2,5/ 4-GF-5,08 EX	**1810463**	50
ICV 2,5/ 5-GF-5,08 EX	**1810476**	50
ICV 2,5/ 6-GF-5,08 EX	**1810489**	50
ICV 2,5/ 7-GF-5,08 EX	**1810492**	50
ICV 2,5/ 8-GF-5,08 EX	**1810502**	50
ICV 2,5/ 9-GF-5,08 EX	**1810515**	50
ICV 2,5/10-GF-5,08 EX	**1810528**	50
ICV 2,5/11-GF-5,08 EX	**1810531**	50
ICV 2,5/12-GF-5,08 EX	**1810544**	50

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Plugs with screw connection with 7.62 mm pitch



- Ex approval for voltages up to 352 V
- Plug-in direction parallel to the conductor axis
- Can be combined with GMSTB(V) 2,5/...-GF-5,08 EX
- For more application and installation instructions, please go to the hazardous area section at **www.phoenixcontact.net/products** and see page 40

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

The maximum torque for the screw flange is 0.3 Nm.

Accessories

For all types	Type	Page
	Keying profile **CP-MSTB** **Order No. 1734634**	38
	Marker cards **SK 7,62/5**	800
	Screwdriver **SZS 0,6 x 3,5** **Order No. 1205053**	

Technical data

	GMSTB 2,5/ ...-STF-7,62 EX	GMVSTBR 2,5/ ...-STF-7,62 EX	GMVSTBW 2,5/ ...-STF-7,62 EX
Ex e terminal blocks as per EN/IEC 60079-0 and EN/IEN 60079-7			
Ex marking ATEX-RL / IEC60079-0	0344 Ex II 2GD Ex e IIC Gb	0344 Ex II 2GD Ex e IIC Gb	0344 Ex II 2GD Ex e IIC Gb
Examination certificate	KEMA 10ATEX0196 U	KEMA 10ATEX0196 U	KEMA 10ATEX0196 U
IECEx certificate	IECEx KEM 10.0093U	IECEx KEM 10.0093U	IECEx KEM 10.0093U
Rated voltage [V]	352	352	352
Rated current [A] / [2.5 mm²]	12	12	12
Connection capacity			
Solid / stranded [mm²]	0.2 - 2.5 / 0.2 - 2.5	0.2 - 2.5 / 0.2 - 2.5	0.2 - 2.5 / 0.2 - 2.5
Solid / stranded AWG	- / 24 - 12	- / 24 - 12	- / 24 - 12
General data			
Stripping length [mm]	7	7	7
Screw thread	M3	M3	M3
Tightening torque [Nm]	0.5 - 0.6	0.5 - 0.6	0.5 - 0.6
Type of insulation material / insulation material group	PA / I	PA / I	PA / I
Inflammability class according to UL 94	V0	V0	V0
Drill hole diameter / pin dimensions [mm]	- / -	- / -	- / -

No. of pos.	Dim. a [mm]
2	7.62
3	15.24
4	22.86
5	30.48
6	38.10
7	45.72
8	53.34
9	60.96
10	68.58
11	76.20
12	83.82

Classic plug-in connector with 5.0 to 7.62 mm pitch
CLASSIC COMBICON connectors for the Ex area with 5.08 and 7.62 mm pitch



With screw flange



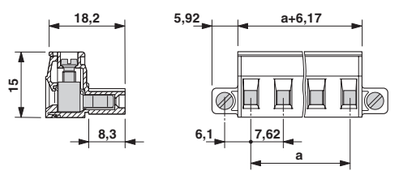
Conductor entry facing keying side, with screw flange



Conductor entry facing the rippled side, with screw flange

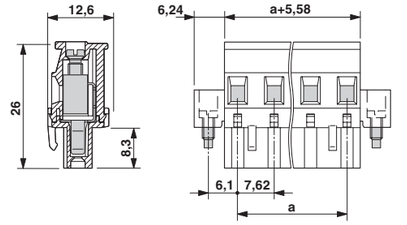
Ex:

Dimensional drawing



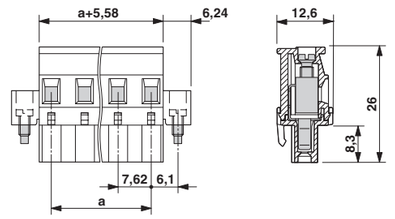
Ex:

Dimensional drawing



Ex:

Dimensional drawing



Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
GMSTB 2,5/ 2-STF-7,62 EX	**1795776**	50
GMSTB 2,5/ 3-STF-7,62 EX	**1795789**	50
GMSTB 2,5/ 4-STF-7,62 EX	**1795792**	50
GMSTB 2,5/ 5-STF-7,62 EX	**1795802**	50
GMSTB 2,5/ 6-STF-7,62 EX	**1795815**	50
GMSTB 2,5/ 7-STF-7,62 EX	**1795828**	50
GMSTB 2,5/ 8-STF-7,62 EX	**1795831**	50
GMSTB 2,5/ 9-STF-7,62 EX	**1795844**	50
GMSTB 2,5/10-STF-7,62 EX	**1795857**	50
GMSTB 2,5/11-STF-7,62 EX	**1795860**	50
GMSTB 2,5/12-STF-7,62 EX	**1795873**	50

Ordering data

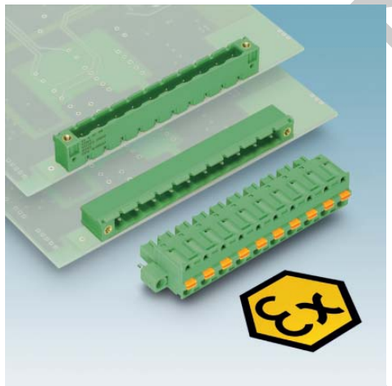
Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
GMVSTBR 2,5/ 2-STF-7,62 EX	**1809898**	50
GMVSTBR 2,5/ 3-STF-7,62 EX	**1809908**	50
GMVSTBR 2,5/ 4-STF-7,62 EX	**1809911**	50
GMVSTBR 2,5/ 5-STF-7,62 EX	**1809924**	50
GMVSTBR 2,5/ 6-STF-7,62 EX	**1809937**	50
GMVSTBR 2,5/ 7-STF-7,62 EX	**1809940**	50
GMVSTBR 2,5/ 8-STF-7,62 EX	**1809953**	50
GMVSTBR 2,5/ 9-STF-7,62 EX	**1809966**	50
GMVSTBR 2,5/10-STF-7,62 EX	**1809979**	50
GMVSTBR 2,5/11-STF-7,62 EX	**1809982**	50
GMVSTBR 2,5/12-STF-7,62 EX	**1809995**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
GMVSTBW 2,5/ 2-STF-7,62 EX	**1810007**	50
GMVSTBW 2,5/ 3-STF-7,62 EX	**1810010**	50
GMVSTBW 2,5/ 4-STF-7,62 EX	**1810023**	50
GMVSTBW 2,5/ 5-STF-7,62 EX	**1810036**	50
GMVSTBW 2,5/ 6-STF-7,62 EX	**1810049**	50
GMVSTBW 2,5/ 7-STF-7,62 EX	**1810052**	50
GMVSTBW 2,5/ 8-STF-7,62 EX	**1810065**	50
GMVSTBW 2,5/ 9-STF-7,62 EX	**1810078**	50
GMVSTBW 2,5/10-STF-7,62 EX	**1810081**	50
GMVSTBW 2,5/11-STF-7,62 EX	**1810094**	50
GMVSTBW 2,5/12-STF-7,62 EX	**1810104**	50

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Plugs with push-in spring connection, 7.62 mm pitch



- Ex approval for voltages up to 352 V
- Plug-in direction parallel to the conductor axis
- Can be combined with GMSTB(V) 2,5/...-GF-5,08 EX
- Further application and installation instructions for plug-in connectors for the Ex area can be found online at **www.phoenixcontact.net/products** and on page 40

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

The maximum torque for the screw flange is 0.3 Nm.

Accessories

For all types	Type	Page
	Keying profile **CP-MSTB** **Order No. 1734634**	38
	Marker cards **SK 7,62/5**	800
	Test plug **MPS**	831

Technical data

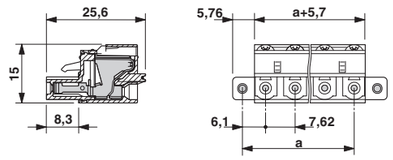
Ex e terminal blocks as per EN/IEC 60079-0 and EN/IEN 60079-7		
Ex marking	ATEX-RL / IEC60079-0	0344 Ex II 2GD Ex e IIC Gb
Examination certificate		KEMA 10ATEX0196 U
IECEx certificate		IECEx KEM 10.0093U
Rated voltage	[V]	352
Rated current	[A] / [2.5 mm²]	12
Connection capacity		
Solid / stranded	[mm²]	0.2 - 2.5 / 0.2 - 2.5
Solid / stranded	AWG	- / 24 - 12
General data		
Stripping length	[mm]	10
Screw thread		-
Tightening torque	[Nm]	-
Type of insulation material / insulation material group		PA / I
Inflammability class according to UL 94		V0
Drill hole diameter / pin dimensions	[mm]	- / -



With screw flange

Ex:

Dimensional drawing



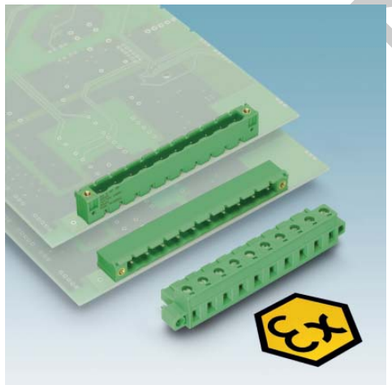
No. of pos.	Dim. a [mm]
2	7.62
3	15.24
4	22.86
5	30.48
6	38.10
7	45.72
8	53.34
9	60.96
10	68.58
11	76.20
12	83.82

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
GFKC 2,5/ 2-STF-7,62 EX	**1796212**	50
GFKC 2,5/ 3-STF-7,62 EX	**1796225**	50
GFKC 2,5/ 4-STF-7,62 EX	**1796238**	50
GFKC 2,5/ 5-STF-7,62 EX	**1796241**	50
GFKC 2,5/ 6-STF-7,62 EX	**1796254**	50
GFKC 2,5/ 7-STF-7,62 EX	**1796267**	50
GFKC 2,5/ 8-STF-7,62 EX	**1796270**	50
GFKC 2,5/ 9-STF-7,62 EX	**1796283**	50
GFKC 2,5/10-STF-7,62 EX	**1796296**	50
GFKC 2,5/11-STF-7,62 EX	**1796306**	50
GFKC 2,5/12-STF-7,62 EX	**1796319**	50

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Headers with a 7.62 mm pitch for wave soldering processes



- Ex approval for voltages up to 352 V
- For more application and installation instructions, please go to the hazardous area section at **www.phoenixcontact.net/products** and see page 40

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

Mounting screws for base element with threaded flange (....GF...): sheet metal screw ISO 1481-ST 2,2x6,5 C or ISO 7049-ST 2,2x6,5 C. Screw connection only permitted prior to soldering.

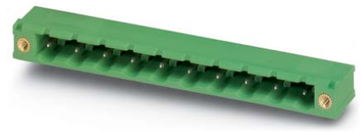
Accessories

For all types	Type	Page
	Keying section **CR-MSTB** **Order No. 1734401**	38
	Marker cards **SK 7,62/5**	800

Technical data

		GMSTB 2,5/ ...-GF-7,62 EX	GMSTBV 2,5/ ...-GF-7,62 EX
Ex e terminal blocks as per EN/IEC 60079-0 and EN/IEN 60079-7			
Ex marking	ATEX-RL / IEC60079-0	0344 Ex II 2GD Ex e IIC Gb	0344 Ex II 2GD Ex e IIC Gb
Examination certificate		KEMA 10ATEX0196 U	KEMA 10ATEX0196 U
IECEx certificate		IECEx KEM 10.0093U	IECEx KEM 10.0093U
Rated voltage	[V]	352	352
Rated current	[A] / [2.5 mm²]	12	12
Connection capacity			
Solid / stranded	[mm²]	- / -	- / -
Solid / stranded	AWG	- / -	- / -
General data			
Stripping length	[mm]	-	-
Screw thread		-	-
Tightening torque	[Nm]	-	-
Type of insulation material / insulation material group		PA / I	PA / I
Inflammability class according to UL 94		V0	V0
Drill hole diameter / pin dimensions	[mm]	1.4 / 1 x 1 mm	1.4 / 1 x 1 mm

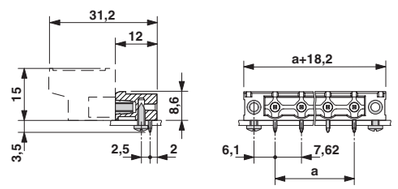
No. of pos.	Dim. a [mm]
2	7.62
3	15.24
4	22.86
5	30.48
6	38.10
7	45.72
8	53.34
9	60.96
10	68.58
11	76.20
12	83.82



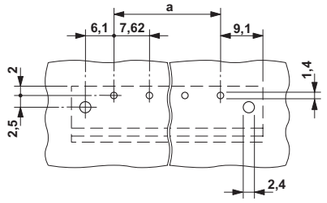
With threaded flange, plug-in direction parallel to the PCB

Ex:

Dimensional drawing

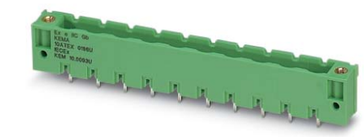


Drilling diagram



Ordering data

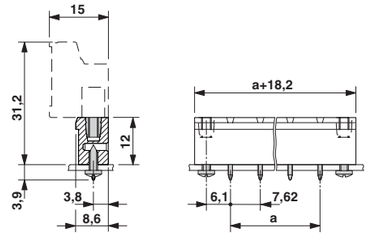
Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
GMSTB 2,5/ 2-GF-7,62 EX	**1795886**	50
GMSTB 2,5/ 3-GF-7,62 EX	**1795899**	50
GMSTB 2,5/ 4-GF-7,62 EX	**1795909**	50
GMSTB 2,5/ 5-GF-7,62 EX	**1795912**	50
GMSTB 2,5/ 6-GF-7,62 EX	**1795925**	50
GMSTB 2,5/ 7-GF-7,62 EX	**1795938**	50
GMSTB 2,5/ 8-GF-7,62 EX	**1795941**	50
GMSTB 2,5/ 9-GF-7,62 EX	**1795954**	50
GMSTB 2,5/10-GF-7,62 EX	**1795967**	50
GMSTB 2,5/11-GF-7,62 EX	**1795970**	50
GMSTB 2,5/12-GF-7,62 EX	**1795983**	50



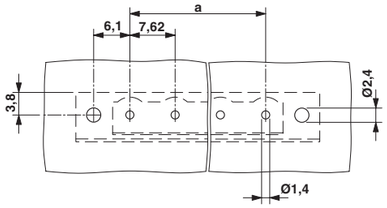
With threaded flange, plug-in direction vertical to the PCB

Ex:

Dimensional drawing



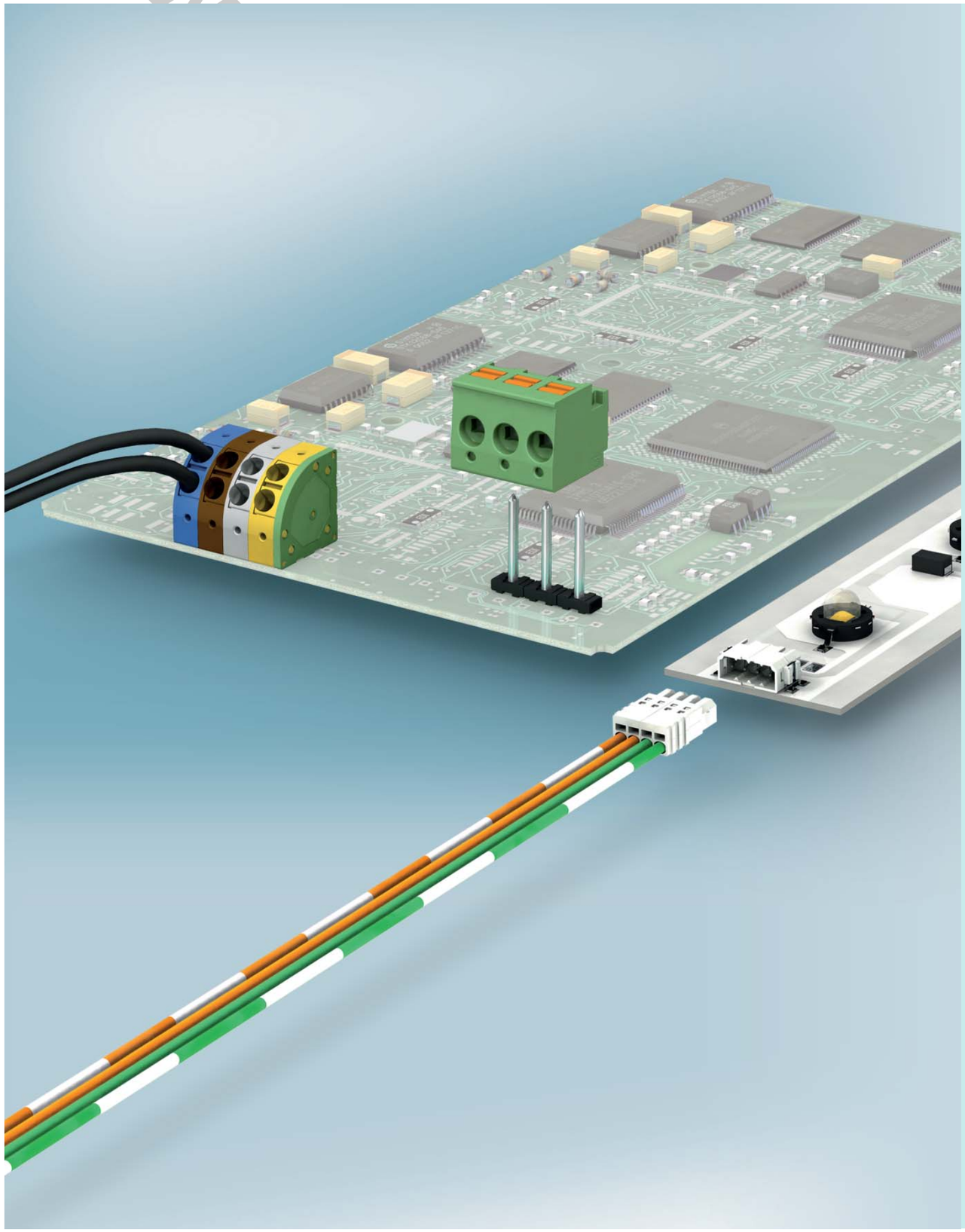
Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
GMSTBV 2,5/ 2-GF-7,62 EX	**1796665**	50
GMSTBV 2,5/ 3-GF-7,62 EX	**1796678**	50
GMSTBV 2,5/ 4-GF-7,62 EX	**1796681**	50
GMSTBV 2,5/ 5-GF-7,62 EX	**1796694**	50
GMSTBV 2,5/ 6-GF-7,62 EX	**1796704**	50
GMSTBV 2,5/ 7-GF-7,62 EX	**1796717**	50
GMSTBV 2,5/ 8-GF-7,62 EX	**1796720**	50
GMSTBV 2,5/ 9-GF-7,62 EX	**1796733**	50
GMSTBV 2,5/10-GF-7,62 EX	**1796746**	50
GMSTBV 2,5/11-GF-7,62 EX	**1796759**	50
GMSTBV 2,5/12-GF-7,62 EX	**1796762**	50

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Connection technology for building and LED applications

Small, powerful and in the typical green

The COMBICON compact series consists of solutions featuring spring-cage and screw connection technology for virtually all applications in building automation and LED technology.

All of the products in the COMBICON compact series are:

– Space-saving thanks to their compact dimensions
– Versatile with regard to the connection technology
– Functional with regard to design and choice of material

COMBICON compact with screw connection

With the PT range, Phoenix Contact provides a new series of terminal blocks with screw connection and, compared with others in its class, outstanding clamping space. A CLIP version is available for clam-shell electronics housings, which can be directly latched to the housing. The various PCB terminal blocks and connectors that can be keyed are very versatile and particularly suitable for large-scale serial products and price-critical applications.

COMBICON compact with spring-cage connection

The proven and easy-to-operate spring-cage double connection is available with 3.5 and 5.0 mm pitch. While the FK-MPT series has extremely compact dimensions, the new PTDA series combines high terminal block capacity with an attractive design.

The PTS series is new. These spring-cage PCB terminal blocks and plug-in connectors offer conductor connection featuring direct plug-in technology with a release button. This means that stranded conductors can also be easily connected.

The small pitch of the PTSM series is suitable for applications where space really is at a premium, such as those found in LED lighting technology, for example. The white housing makes this miniature terminal block the ideal match for the light-colored PCBs of LED lights.

COMBICON compact pin strips

The matching pin strips for plug-in versions are made from high-temperature-resistant material and can therefore be used in the reflow soldering process (THR). A taped version for use on automatic machines is available on request.

General 386

COMBICON compact cross-reference list 388

PCB terminal blocks and connectors with 2.5 mm pitch 391

THR spring-cage PCB terminal blocks up to 0.75 mm² 391

SMD spring-cage PCB terminal blocks up to 0.75 mm² 393

Connectors with pierce contact up to 0.34 mm² and spring-cage connection up to 0.75 mm² 395

SMT and THR base strips for plugs with pierce contact or spring-cage connection 397

Inverted SMD and THR base strips 399

PTF series
Connection terminal block for flexible PCBs 401

FK-MPT series
PCB terminal blocks with spring-cage double connection up to 2 x 0.5 mm² 403

PTDA series
Angled PCB terminal blocks with spring-cage double connection up to 2 x 2.5 mm² 407

PTSA series
Angled spring-cage PCB terminal blocks up to 1.5 mm² 411

PTS series
Horizontal PCB terminal block for conductor cross sections up to 2.5 mm² 415

Plug with spring connection for pin strips 417

PT 1,5 series
PCB terminal blocks with screw connection up to 2.5 mm² 419

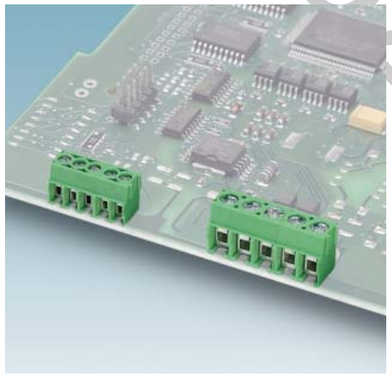
PT 2,5 series
PCB terminal blocks with screw connection up to 4 mm² 431

PT 2,5 plug-in system
Multi-plug-in system with screw connection up to 4 mm² 431

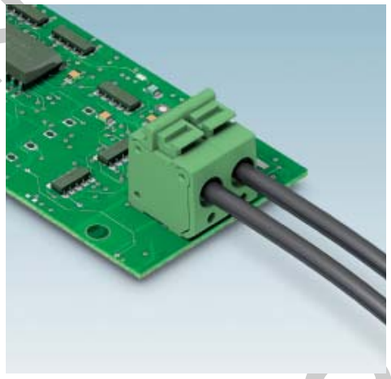
PST series
Pin strips for COMBICON compact plugs 432

FOPT series
FO fast connection PCB terminal blocks FOPT 2,2-T/R 436

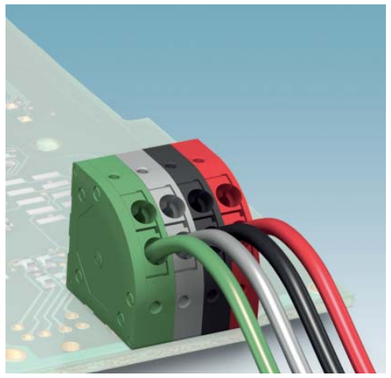
PCB terminal blocks



PT 1,5 PCB terminal blocks
– Screw connection
– High terminal capacity
– High current carrying capacity
– Plus/minus screw as standard
– Highly flexible wire protector

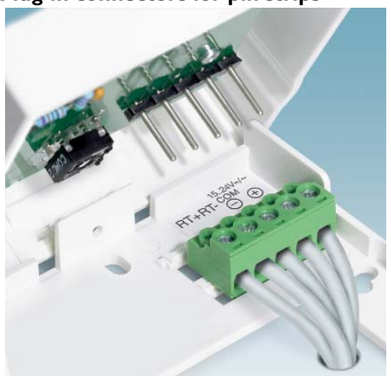


PTS 1,5 PCB terminal blocks
– Push-in spring connection
– Finger-operated release button
– Compact design
– Test connection

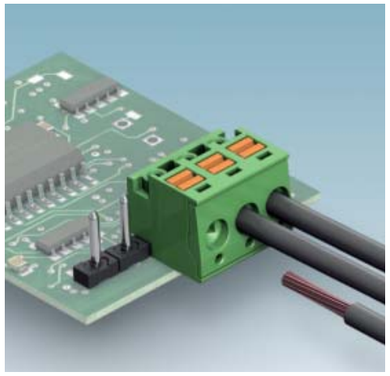


PTDA PCB terminal blocks
– Spring-cage double connection
– Direct plug-in method
– Compact dimensions
– Test connection

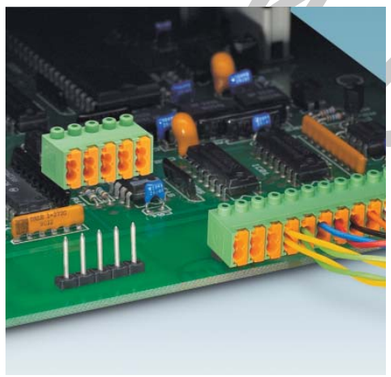
Plug-in connectors for pin strips



PT 1,5 plug-in connector
– Screw connection with tension sleeve
– For latching in device housing
– Snap-on feet for reliable hold
– Ideal for clam-shell electronics housing

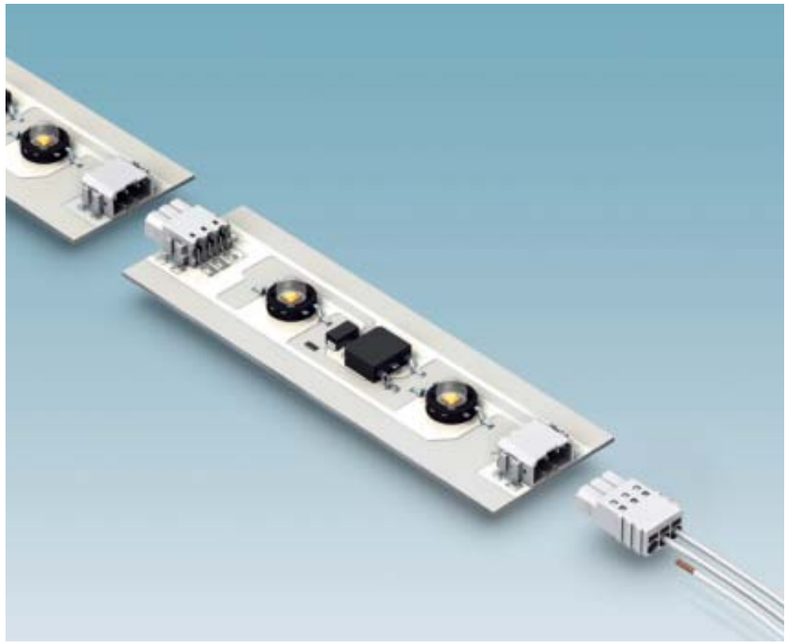


PTS plug-in connector
– Push-in spring connection
– Safe latching when connecting the new pin-strip base strip
– Integrated release button prevents inadvertent release
– Optional keying
– Size comparable with screw solution



FK-MPT plug-in connectors
– Spring-cage double connection
– Direct plug-in method
– Compact dimensions
– Also available as PCB terminal block

Miniature PCB terminal blocks and plugs for LED lighting technology
– Push-in spring connection with release function
– Suitable for solid and stranded conductors
– Space-saving THR versions with two solder pins
– Robust SMD versions with edge anchor metals
– SMD soldering spots can be easily accessed for test purposes
– Compact design: 5 mm tall
– 2.5 mm pitch
– High current carrying capacity of 6 A
– Large connection capacity up to 0.75 mm²
– Available as PCB terminal block and plug-in connector
– Plug-in connectors for connections that can be separated
– Inverted base strips for board-to-board connections
– Available in white and black



Options for COMBICON compact connection technology

Designation	Marking	Color		Partial assembly	Mech. coding	Color coding	Tape-on-reel packing	Other
		Standard	Optional					
PTSM...	●5)	▮	▯	●	O	O	●	
PTSM... Plug-in	●5)	▮	▯	●	O	O	●	
PTQ...	●	▮	▯ 2)	O2)	O	O	●	
PTS...	●	▮	▮▮▮▮▮	O2)	O	●	O2)	Blocks available with different pitches
PTS...PH	●	▮	▮▮▮▮▮	O2)	●	O	O	
FK-MPT	●4)	▮	▮▮▮▮▮	●	O	O	O2)	
PTSA...	●	▮	▮▮▮▮▮	●1)	O	●	O2)	Blocks available with different pitches
PTDA...	●4)	▮	▮▮▮▮▮	●1)	●	●	O2)	Blocks available with different pitches
PTA 1,5... PT 1,5... PT 2,5...	●	▮	▮▮▮▮▮	●	●	O	O2)	A-version can be aligned in the pitch (plug)
PST...	O	▮	▮▮▮▮▮	●	O	O	●	Various pin lengths/geometries available on request
PST...-L...	O	▮	O	●	●	O	O2)	
PST...SF	O	▮	O	●	●	O	O2)	

●= Available

O = Not available

1) With pitch spacer
2) Available on request
3) E.g., to double the pitch
4) Two marking areas available
5) Color marking

COMBICON compact plugs	Type	COMBICON compact Pin strips										
											
			PST 1,0...-3,5 Page 432	PST 1,0/...-H-3,5 Page 433	PST 1,3/...-5,0 Page 434	PST 1,3/...-H-5,0 Page 435	PST 1,3/...-5,0-SF Page 417	PST 1,3/...-LH-5,0 Page 431	PST 1,3/...-LV-5,0 Page 431		FK-MPT 0,5/...IC(V)A-3,5 Page 404
		Pitch	3.5	3.5	5.0	5.0	5.0	5.0	5.0		3.5
	PTDA 1,5/...PH-3,5 Page 407	3.5	•	•1)							
	PTDA 1,5/...-PH-5,0 Page 409	5.0			•	•1)					
	FK-MPT 0,5/...-3,5 Page 403	3.5									•
	FK-MPT 0,5...-ST-3,5 Page 403	3.5	•	•1)							
	PTS 1,5/...-PH-5,0 Page 417	5.0			•	•	•				
	PT 1,5/...-PH-3,5 Page 423	3.5	•	•							
	PT 1,5/...-PVH-3,5 Page 423	3.5	•	•							
	PT 1,5/...PH-5,0 Page 425	5.0			•	•					
	PT 1,5/...-PH-5,0 CLIP Page 425	5.0			•	•					
	PT 1,5/...PVH-5,0 Page 425	5.0			•	•					
	PT 2,5/...-PVH-5,0 Page 431	5.0			•	•1)		•	•		

1) Requires appropriate connection. More details available on request.

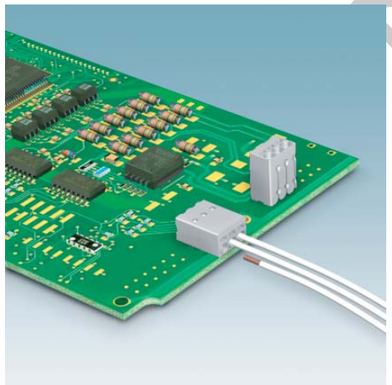
Connection technology for building and LED applications

COMBICON compact cross-reference list

COMBICON compact plugs	Type	COMBICON compact Pin strips			
					
			PTSM 0,5/...-HH-2,5-THR... Page 397	PTSM 0,5/...-HV-2,5-THR... Page 397	PTSM 0,5/...-HH-2,5-SMD... Page 397
		Pitch	2.5	2.5	2.5
	PTSM 0,5/...-P-2,5 Page 395	2.5	•	•	•
	PTSM 0,5/...-HHI-2,5-THR Page 399	2.5	•	•	•
	PTSM 0,5/...-HV-2,5-THR Page 399	2.5	•	•	•

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THR spring-cage PCB terminal blocks up to 0.75 mm²



- Compact low-profile THR print terminal block, pitch 2.5 mm
- Spring-cage connection using direct plug-in method with a release button
- High current carrying capacity for high power transmission
- Double solder pins for stable hold on PCB
- Specifically designed for use in reflow/solder processes
- Supplied in tape-on-reel packing according to IEC 60286-3 for automated mounting

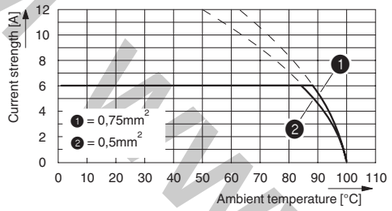
Notes:
Pick and place pads for taped THR articles usually protrude beyond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of tape reels and place pads can be found online at **www.phoenixcontact.net/products**.
PTSM is also available in black, see page 51.
Observe derating curve.
[1]) UL/CUL on request.
[2]) Stranded conductor cross section of up to 0.75 mm² supported, for a rated insulation voltage of 32 V for III/2.
[3]) Applies for single-phase networks.

Accessories

For all types	Type	Page
	Screwdriver **SZS 0,4 X 2,0 Order No. 1205202**	
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm² **CRIMPFOX 6 Order No. 1212034**	

Current carrying capacity curve

Type: PTSM 0,5/...-2,5-H- THR R...
Tested in accordance with DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5



N



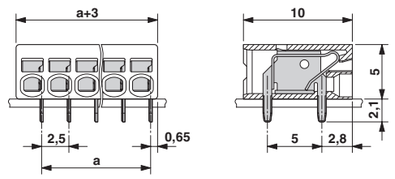
Horizontal PCB terminal block for THR applications

N

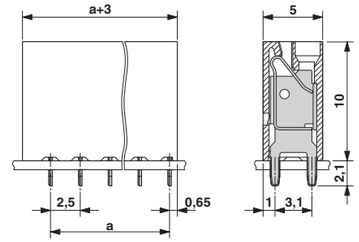


Vertical PCB terminal block for THR applications

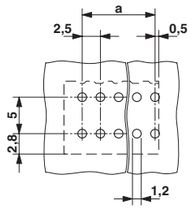
Dimensional drawing



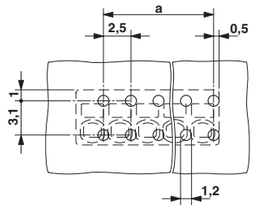
Dimensional drawing



Drilling diagram



Drilling diagram



No. of pos.	Dim. a [mm]
2	2.50
3	5.00
4	7.50
5	10.00
6	12.50
7	15.00
8	17.50

Technical data

		PTSM 0,5/ ...-2,5-H THR WH R24			PTSM 0,5/ ...-2,5-V THR WH R44		
Technical data in accordance to IEC / DIN VDE							
Rated current / conductor cross section	[A] / [mm²]	6 / 0.5			6 / 0.5		
Rated insulation voltage for pollution degree 2	[V]	250[3])			250[3])		
Pitch	[mm]	2.5			2.5		
Connection capacity							
Solid / stranded	[mm²] / [mm²] / AWG	0.14 - 0.5 / 0.2 - 0.5 / 24 - 20[2])			0.14 - 0.5 / 0.2 - 0.5 / 24 - 20[2])		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 0.5			0.25 - 0.5		
Stranded with ferrules with plastic sleeve	[mm²]	-			-		
Multi-conductor connection capacity (two conductors with the same cross section)							
Solid / stranded	[mm²]	- / -			- / -		
Stranded with ferrules without plastic sleeve	[mm²]	-			-		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	-			-		
Insulation coordination							
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	160	250[3])	400	160	250[3])	400
Rated surge voltage	[kV]	2.5	2.5	2.5	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-
Approval data (CSA)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-
General data							
Stripping length	[mm]	6			6		
Type of insulation material / insulation material group		PA / I			PA / I		
Inflammability class according to UL 94		V0			V0		
Drill hole diameter / pin dimensions	[mm]	1.2 / 0,3 x 0,8 mm			1.2 / 0,3 x 0,8 mm		

Ordering data

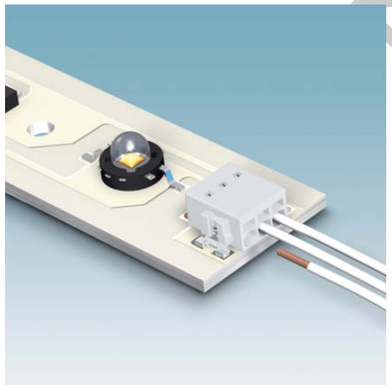
Type	Order No.	Pcs. / Pkt.
2.5 mm pitch, color: white		
PTSM 0,5/ 2-2,5-H THR WH R24	**1814498**	530
PTSM 0,5/ 3-2,5-H THR WH R32	**1814508**	530
PTSM 0,5/ 4-2,5-H THR WH R32	**1814511**	530
PTSM 0,5/ 5-2,5-H THR WH R32	**1814524**	530
PTSM 0,5/ 6-2,5-H THR WH R32	**1814537**	530
PTSM 0,5/ 7-2,5-H THR WH R32	**1814540**	530
PTSM 0,5/ 8-2,5-H THR WH R32	**1814553**	530

Ordering data

Type	Order No.	Pcs. / Pkt.
2.5 mm pitch, color: white		
PTSM 0,5/ 2-2,5-V THR WH R44	**1814566**	310
PTSM 0,5/ 3-2,5-V THR WH R44	**1814579**	310
PTSM 0,5/ 4-2,5-V THR WH R44	**1814582**	310
PTSM 0,5/ 5-2,5-V THR WH R44	**1814595**	310
PTSM 0,5/ 6-2,5-V THR WH R44	**1814605**	310
PTSM 0,5/ 7-2,5-V THR WH R44	**1814618**	310
PTSM 0,5/ 8-2,5-V THR WH R44	**1814621**	310

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SMD spring-cage PCB terminal blocks up to 0.75 mm²



- Compact low-profile SMD print terminal block, pitch 2.5 mm
- Spring-cage connection using direct plug-in method with a release button
- High current carrying capacity for high power transmission
- Rugged soldering anchors for safe mechanical fastening on the surface
- Specially designed to be used in pure SMT processes
- Supplied in tape-on-reel packing according to IEC 60286-3 for automated mounting

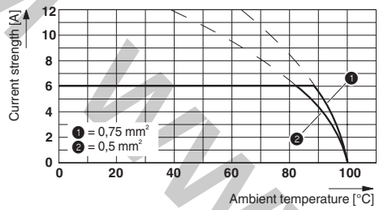
Notes:
Pick and place pads for taped THR articles usually protrude beyond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of tape reels and place pads can be found online at **www.phoenixcontact.net/products**.
PTSM is also available in black, see page 53.
1) UL/CUL on request.
2) Stranded conductor cross section of up to 0.75 mm² supported, for a rated insulation voltage of 32 V for III/2.
3) Applies for single-phase networks.

Accessories

For all types	Type	Page
	Screwdriver **SZS 0,4 X 2,0** **Order No. 1205202**	
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm² **CRIMPFOX 6** **Order No. 1212034**	

Current carrying capacity curve

Type: PTSM 0,5/...-2,5-H- SMD R44
Tested in accordance with DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5



No. of pos.	Dim. a [mm]
2	2.50
3	5.00
4	7.50
5	10.00
6	12.50
7	15.00
8	17.50

Technical data

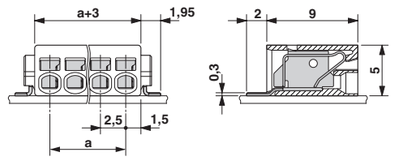
		PTSM 0,5/...-2,5-H SMD WH R24			PTSM 0,5/...-2,5-V SMD WH R44		
Technical data in accordance to IEC / DIN VDE							
Rated current / conductor cross section	[A] / [mm²]	6 / 0.5			6 / 0.5		
Rated insulation voltage for pollution degree 2	[V]	250[3]			160[3]		
Pitch	[mm]	2.5			2.5		
Connection capacity							
Solid / stranded	[mm²] / [mm²] / AWG	0.14 - 0.5 / 0.2 - 5 / 26 - 20[2]			0.14 - 0.5 / 0.2 - 0.5 / 26 - 20[2]		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 0.5			0.25 - 0.5		
Stranded with ferrules with plastic sleeve	[mm²]	-			-		
Multi-conductor connection capacity (two conductors with the same cross section)							
Solid / stranded	[mm²]	- / -			- / -		
Stranded with ferrules without plastic sleeve	[mm²]	-			-		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	-			-		
Insulation coordination							
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	63	250[3]	320	63	160[3]	320
Rated surge voltage	[kV]	2.5	2.5	2.5	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-
Connection capacity AWG	AWG	-	26 - 20	-	-	26 - 20	-
Approval data (CSA)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-
General data							
Stripping length	[mm]	6			6		
Type of insulation material / insulation material group		PA / I			PA / I		
Inflammability class according to UL 94		V0			V0		

N



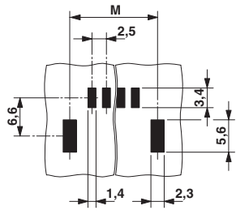
Horizontal PCB terminal block for SMD applications

Dimensional drawing



PCB layout

Dimension M: 7.7 mm



Ordering data

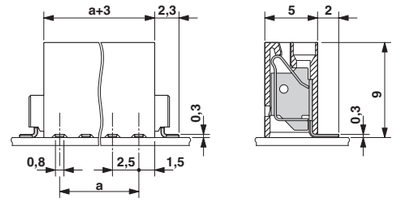
Type	Order No.	Pcs. / Pkt.
2.5 mm pitch, color: white		
PTSM 0,5/ 2-2,5-H SMD WH R24	**1814634**	770
PTSM 0,5/ 3-2,5-H SMD WH R44	**1814647**	770
PTSM 0,5/ 4-2,5-H SMD WH R24	**1814650**	770
PTSM 0,5/ 5-2,5-H SMD WH R44	**1814663**	770
PTSM 0,5/ 6-2,5-H SMD WH R44	**1814676**	770
PTSM 0,5/ 7-2,5-H SMD WH R44	**1814689**	770
PTSM 0,5/ 8-2,5-H SMD WH R44	**1814692**	770

N



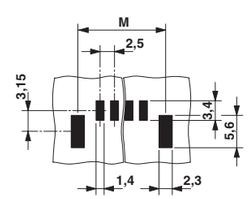
Vertical PCB terminal block for SMD applications

Dimensional drawing



PCB layout

Dimension M: 8.4 mm



Ordering data

Type	Order No.	Pcs. / Pkt.
2.5 mm pitch, color: white		
PTSM 0,5/ 2-2,5-V SMD WH R44	**1814702**	400
PTSM 0,5/ 3-2,5-V SMD WH R44	**1814715**	400
PTSM 0,5/ 4-2,5-V SMD WH R44	**1814728**	400
PTSM 0,5/ 5-2,5-V SMD WH R44	**1814731**	400
PTSM 0,5/ 6-2,5-V SMD WH R44	**1814744**	400
PTSM 0,5/ 7-2,5-V SMD WH R44	**1814757**	400
PTSM 0,5/ 8-2,5-V SMD WH R44	**1814760**	400

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Plugs with spring connection up to 0.75 mm²



- Miniature connector with 2.5 mm pitch
- Can be plugged into THR and SMD headers
- Conductor connection up to 0.75 mm²
- High current carrying capacity up to 6 A

Notes:

PTSM is also available in black, see page 55.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products**
or starting on page 388.

Accessories

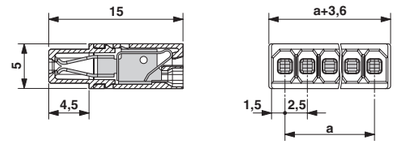
For all types	Type	Page
For PTSM connectors only		
	Screwdriver **SZS 0,4 X 2,0** **Order No. 1205202**	
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm² **CRIMPFOX 6** **Order No. 1212034**	

N



Spring-cage plug for conductor cross sections up to 0.75 mm²

Dimensional drawing



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	6 / 0.5		
Rated insulation voltage for pollution degree 2	[V]	250		
Pitch	[mm]	2.5		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	0.14 - 0.5 / 0.2 - 0.5 / 24 - 20		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	100	250	320
Rated surge voltage	[kV]	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	150	-	-
Nominal current	[A]	5	-	-
Connection capacity AWG	AWG	26 - 20	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Stripping length	[mm]	6		
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		

No. of pos.	Dim. a [mm]
2	2.50
3	5.00
4	7.50
5	10.00
6	12.50
7	15.00
8	17.50

Ordering data

Type	Order No.	Pcs. / Pkt.
2.5 mm pitch, color: white		
PTSM 0,5/ 2-P-2,5 WH	**1704853**	250
PTSM 0,5/ 3-P-2,5 WH	**1704854**	250
PTSM 0,5/ 4-P-2,5 WH	**1704857**	250
PTSM 0,5/ 5-P-2,5 WH	**1704858**	100
PTSM 0,5/ 6-P-2,5 WH	**1704859**	100
PTSM 0,5/ 7-P-2,5 WH	**1704860**	100
PTSM 0,5/ 8-P-2,5 WH	**1704861**	100

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SMT and THR headers for pierce contact or spring-cage connectors



- Specifically designed for use in reflow and SMT processes
- High current carrying capacity of 6 A
- Robust solder anchor for secure, mechanical fixing to the surface
- Supplied in tape-on-reel packing according to IEC 60286-3 for automated mounting
- Compatible with PTSM...-/PTPM...connectors
- Versions with and without positioning pins are available
- 2.5 mm pitch

Notes:
PTSM is also available in black, see page 59.
COMBICON select You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 388.
Pick and place pads for taped THR articles usually protrude beyond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of tape reels and place pads can be found online at **www.phoenixcontact.net/products**.
1) UL/CUL on request.
2) Current carrying dependent upon connector used.
3) Applies for single-phase networks.

Technical data

		PTSM 0,5/...-HH-2,5-THR WH R16			PTSM 0,5/ ...-HV-2,5-THR WH R32			PTSM 0,5/...-HH0-2,5-SMD WH R32		
Technical data in accordance to IEC / DIN VDE										
Rated current	[A]	6[2]			6[2]			6[2]		
Rated insulation voltage for pollution degree 2	[V]	250[3]			250[3]			250[3]		
Pitch	[mm]	2.5			2.5			2.5		
Insulation coordination										
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	125	250[3]	320	125	250[3]	320	125	250[3]	320
Rated surge voltage	[kV]	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-	-	-	-
Approval data (CSA)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-	-	-	-
General data										
Type of insulation material / insulation material group		PA / I			PA / I			PA / I		
Inflammability class according to UL 94		V0			V0			V0		
Drill hole diameter / pin dimensions	[mm]	1.1 / 0,6 x 0,6 mm			1.1 / 0,6 x 0,6 mm			- / -		

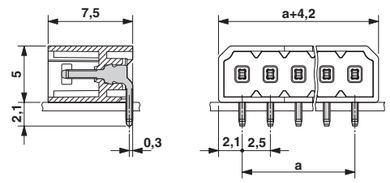
No. of pos.	Dim. a [mm]
2	2.50
3	5.00
4	7.50
5	10.00
6	12.50
7	15.00
8	17.50

N

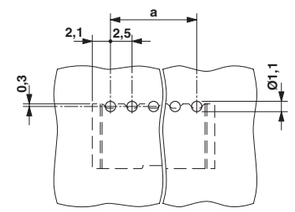


Horizontal header for THR applications

Dimensional drawing



Drilling diagram



Ordering data

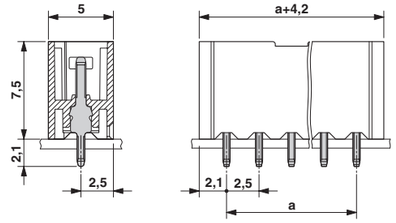
Type	Order No.	Pcs. / Pkt.
2.5 mm pitch, color: white, without positioning pins		
PTSM 0,5/ 2-HH-2,5-THR WH R16	1814841	500
PTSM 0,5/ 3-HH-2,5-THR WH R32	1814854	500
PTSM 0,5/ 4-HH-2,5-THR WH R32	1814867	500
PTSM 0,5/ 5-HH-2,5-THR WH R32	1814870	500
PTSM 0,5/ 6-HH-2,5-THR WH R32	1814883	500
PTSM 0,5/ 7-HH-2,5-THR WH R44	1814896	500
PTSM 0,5/ 8-HH-2,5-THR WH R44	1814906	500

N

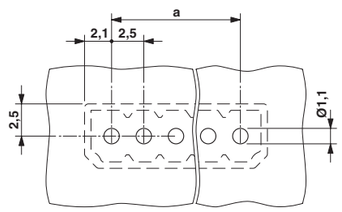


Vertical header for THR applications

Dimensional drawing



Drilling diagram



Ordering data

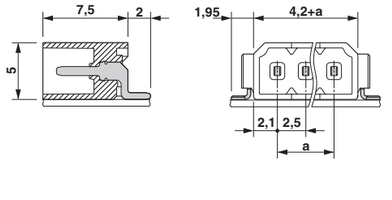
Type	Order No.	Pcs. / Pkt.
2.5 mm pitch, color: white, without positioning pins		
PTSM 0,5/ 2-HV-2,5-THR WH R32	1815264	330
PTSM 0,5/ 3-HV-2,5-THR WH R32	1815277	330
PTSM 0,5/ 4-HV-2,5-THR WH R32	1815280	330
PTSM 0,5/ 5-HV-2,5-THR WH R32	1815293	330
PTSM 0,5/ 6-HV-2,5-THR WH R32	1815303	330
PTSM 0,5/ 7-HV-2,5-THR WH R44	1815316	330
PTSM 0,5/ 8-HV-2,5-THR WH R44	1815329	330

N

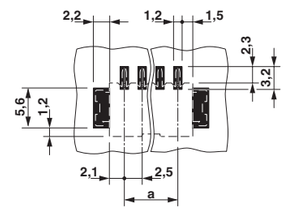


Horizontal header for SMD applications

Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
2.5 mm pitch, color: white, without positioning pins		
PTSM 0,5/ 2-HH0-2,5-SMD WH R32	1814919	600
PTSM 0,5/ 3-HH0-2,5-SMD WH R32	1814922	600
PTSM 0,5/ 4-HH0-2,5-SMD WH R32	1814935	600
PTSM 0,5/ 5-HH0-2,5-SMD WH R32	1814948	600
PTSM 0,5/ 6-HH0-2,5-SMD WH R44	1814951	600
PTSM 0,5/ 7-HH0-2,5-SMD WH R44	1814964	600
PTSM 0,5/ 8-HH0-2,5-SMD WH R44	1814977	600

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Inverted SMD and THR base strips



- Specifically designed for use in reflow and SMT processes
- High current carrying capacity of 6 A
- Rugged soldering anchors for safe mechanical fastening on the surface
- Supplied in tape-on-reel packing according to IEC 60286-3 for automated mounting
- Compatible with PTSM base strips
- Versions with and without positioning pins are available
- 2.5 mm pitch
- Robust mechanical design

Notes:
PTSM is also available in black, see page 61.
COMBICON select You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 388.
Pick and place pads for taped THR articles usually protrude beyond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of tape reels and place pads can be found online at **www.phoenixcontact.net/products**.
1) UL/CUL on request.
2) Applies for single-phase networks.

Technical data

		PTSM 0,5/...-HHI-2,5-THR WH R24			PTSM 0,5/...-HHI0-2,5-SMD WHR24		
Technical data in accordance to IEC / DIN VDE							
Rated current	[A]	6			6		
Rated insulation voltage for pollution degree 2	[V]	250[2]			250[2]		
Pitch	[mm]	2.5			2.5		
Insulation coordination							
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	160	250[2]	400	160	250[2]	400
Rated surge voltage	[kV]	2.5	2.5	2.5	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-
Approval data (CSA)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-
General data							
Type of insulation material / insulation material group		PA / I			PA / I		
Inflammability class according to UL 94		V0			V0		
Drill hole diameter / pin dimensions	[mm]	1 / 0,6 x 0,4 mm			- / -		

N



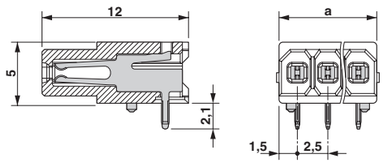
Horizontal inverted header, THR solderable

N

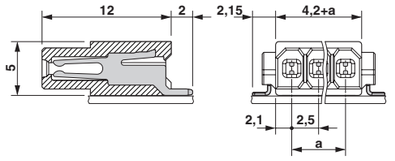


Horizontal inverted header, SMD solderable

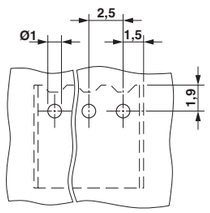
Dimensional drawing



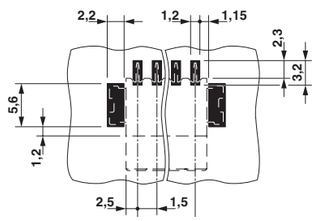
Dimensional drawing



Drilling diagram



Drilling diagram



No. of pos.	Dim. a [mm]
2	2.50
3	5.00
4	7.50
5	10.00
6	12.50
7	15.00
8	17.50

Ordering data

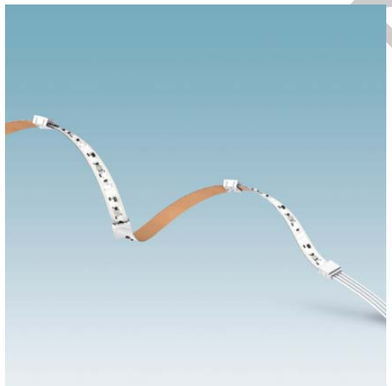
Type	Order No.	Pcs. / Pkt.
2.5 mm pitch, color: white, without positioning pins		
PTSM 0,5/ 2-HHI-2,5-THR WH R24	1814980	500
PTSM 0,5/ 3-HHI-2,5-THR WH R32	1814993	500
PTSM 0,5/ 4-HHI-2,5-THR WH R32	1815002	500
PTSM 0,5/ 5-HHI-2,5-THR WH R32	1815015	500
PTSM 0,5/ 6-HHI-2,5-THR WH R32	1815028	500
PTSM 0,5/ 7-HHI-2,5-THR WH R32	1815031	500
PTSM 0,5/ 8-HHI-2,5-THR WH R32	1815044	500

Ordering data

Type	Order No.	Pcs. / Pkt.
2.5 mm pitch, color: white, without positioning pins		
PTSM 0,5/ 2-HHI0-2,5-SMD WHR24	1815196	500
PTSM 0,5/ 3-HHI0-2,5-SMD WHR44	1815206	500
PTSM 0,5/ 4-HHI0-2,5-SMD WHR44	1815219	500
PTSM 0,5/ 5-HHI0-2,5-SMD WHR44	1815222	500
PTSM 0,5/ 6-HHI0-2,5-SMD WHR44	1815235	500
PTSM 0,5/ 7-HHI0-2,5-SMD WHR44	1815248	500
PTSM 0,5/ 8-HHI0-2,5-SMD WHR44	1815251	500

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Connection terminal block
For flexible LED PCBs



- Easy and reliable contacting of flexible LED PCBs
- Making the connection establishes a positive-locking link with the LED strips
- Small design with high power transmission
- Available as direct plug-in and PCB connectors
- The direct plug-in connector is supplied complete with cables 500 mm in length
- Version according to IEC 60838-2-2
- Strips must be compatible with connection technology

Notes:

[1]) UL/CUL on request.

[2]) Depending on the flexible PCB, a maximum of 10 A is permitted for plugs and connectors.

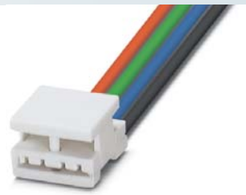
Technical data

		PTF 0,3/ ...-BB-1,8-H			PTF 0,3/ ...-WB-1,8-H		
Technical data in accordance to IEC / DIN VDE							
Rated current / conductor cross section	[A] / [mm²]	10[2]) / 0.34			10[2]) / 0.34		
Rated insulation voltage for pollution degree 2	[V]	25			25		
Pitch	[mm]	1.8			1.8		
Connection capacity							
Solid / stranded	[mm²] / [mm²] / AWG	- / - / -			- / - / -		
Insulation coordination							
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	25	25	25	25	25	25
Rated surge voltage	[kV]						
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-
Approval data (CSA)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-
General data							
Type of insulation material / insulation material group		PBT / IIIa			PBT / IIIa		
Inflammability class according to UL 94		V0			V0		

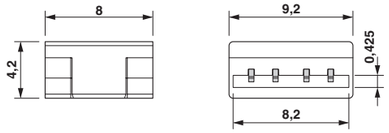
N



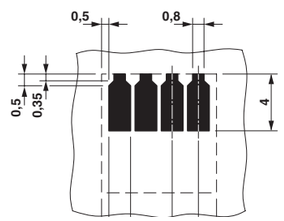
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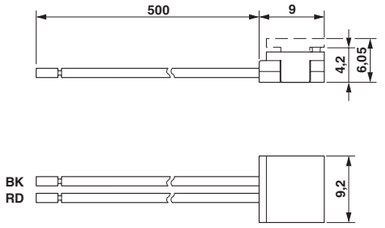
Dimensional drawing



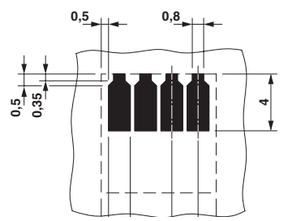
Drilling diagram



Dimensional drawing



Drilling diagram



No. of pos.
2
4

Ordering data

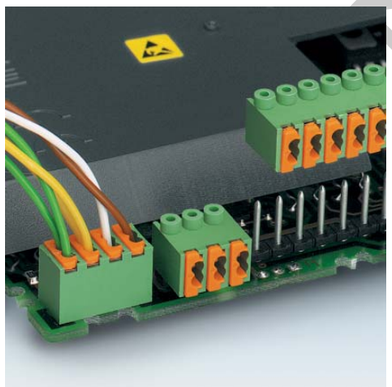
Type	Order No.	Pcs. / Pkt.
PTF 0,3/ 2-WB-1,8-H	**1826091**	25
PTF 0,3/ 4-WB-1,8-H	**1826114**	25

Ordering data

Type	Order No.	Pcs. / Pkt.
PTF 0,3/ 4-BB-1,8-H	**1826101**	25

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PCB terminals with spring-cage double connection up to 2 x 0.5 mm²



- Miniature connection terminal for solid conductors
- Pitch 3.5 mm
- Easy looping through of potentials thanks to double connection
- Increased operating convenience thanks to the direct plug-in method with release button
- Available as a PCB terminal block or as connector

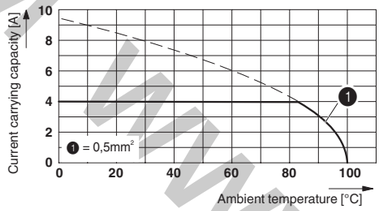
Notes:
Larger packing units are available on request.
For PST 1,0/...-3,5 pin strips, see page 432.
COMBICON select You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 388.
¹) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.

Accessories

For all types	Type	Page
	Marker cards **SK 3,5/2,8**	797

Current carrying capacity curve

Type: FK-MPT 0,5/5-ST-3,5
Test following DIN EN 60512-5-2:2003-01
Reduction factor = 0.8
No. of positions: 5

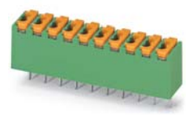


Technical data

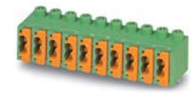
		FK-MPT 0,5/ ...-3,5			FK-MPT 0,5/ ...-3,5-H			FK-MPT 0,5/ ...-ST-3,5		
Technical data in accordance to IEC / DIN VDE										
Rated current / conductor cross section	[A] / [mm²]	4¹) / 0.5			4¹) / 0.5			4¹) / 0.5		
Rated insulation voltage for pollution degree 2	[V]	250			250			250		
Pitch	[mm]	3.5			3.5			3.5		
Connection capacity										
Solid / stranded	[mm²] / [mm²] / AWG	0.12 - 0.5 / - / 26 - 20			0.12 - 0.5 / - / 26 - 20			0.12 - 0.5 / - / 26 - 20		
Stranded with ferrules without plastic sleeve	[mm²]	-			-			-		
Stranded with ferrules with plastic sleeve	[mm²]	-			-			-		
Multi-conductor connection capacity (two conductors with the same cross section)										
Solid / stranded	[mm²]	- / -			- / -			- / -		
Stranded with ferrules without plastic sleeve	[mm²]	-			-			-		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	-			-			-		
Insulation coordination										
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	160	250	250	160	250	250	160	250	250
Rated surge voltage	[kV]	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	300	-	300	300	-	300	300	-	300
Nominal current	[A]	4	-	4	4	-	4	4	-	4
Connection capacity AWG	AWG	28 - 20	-	28 - 20	28 - 20	-	28 - 20	28 - 20	-	28 - 20
Approval data (CSA)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-	-	-	-
General data										
Stripping length	[mm]	6.5			6.5			6.5		
Type of insulation material / insulation material group		PBT / IIIa			PBT / IIIa			PBT / IIIa		
Inflammability class according to UL 94		V0			V0			V0		
Drill hole diameter / pin dimensions	[mm]	1 / 0,4 x 0,9 mm			1.2 / 1 mm			- / -		

No. of pos.	Dim. a [mm]
2	3.50
3	7.00
4	10.50
5	14.00
6	17.50
7	21.00
8	24.50
9	28.00
10	31.50
11	35.00
12	38.50
13	42.00
14	45.50
15	49.00
16	52.50

Connection technology for building and LED applications
FK-MPT series



Connection direction vertical to the PCB



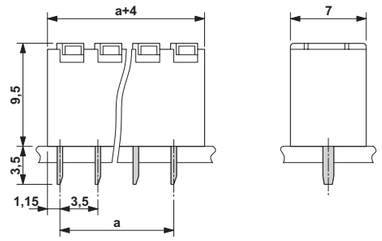
Connection direction parallel to the PCB



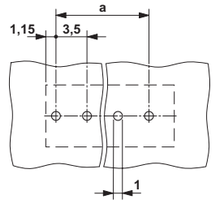
Can be plugged onto PST 1,0/...-3,5 pin strip

CCA

Dimensional drawing

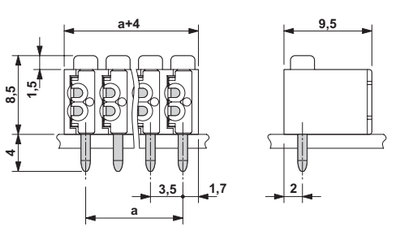


Drilling diagram

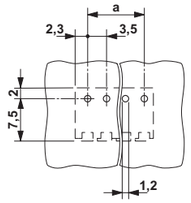


CCA

Dimensional drawing

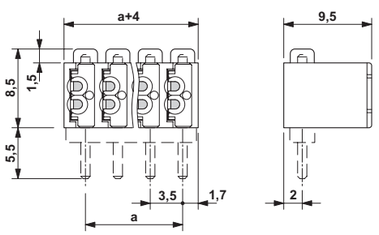


Drilling diagram



CCA

Dimensional drawing



Ordering data

Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
FK-MPT 0,5/ 2-3,5	**1891069**	50
FK-MPT 0,5/ 3-3,5	**1891072**	50
FK-MPT 0,5/ 4-3,5	**1891085**	50
FK-MPT 0,5/ 5-3,5	**1891098**	50
FK-MPT 0,5/ 6-3,5	**1891108**	50
FK-MPT 0,5/ 7-3,5	**1891111**	50
FK-MPT 0,5/ 8-3,5	**1891124**	50
FK-MPT 0,5/ 9-3,5	**1891137**	50
FK-MPT 0,5/10-3,5	**1891140**	50
FK-MPT 0,5/11-3,5	**1891153**	50
FK-MPT 0,5/12-3,5	**1891166**	50
FK-MPT 0,5/13-3,5	**1891179**	50
FK-MPT 0,5/14-3,5	**1891182**	50
FK-MPT 0,5/15-3,5	**1891195**	50
FK-MPT 0,5/16-3,5	**1891205**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
FK-MPT 0,5/ 2-3,5-H	**1928767**	50
FK-MPT 0,5/ 3-3,5-H	**1928770**	50
FK-MPT 0,5/ 4-3,5-H	**1928783**	50
FK-MPT 0,5/ 5-3,5-H	**1928796**	50
FK-MPT 0,5/ 6-3,5-H	**1928806**	50
FK-MPT 0,5/ 7-3,5-H	**1928819**	50
FK-MPT 0,5/ 8-3,5-H	**1928822**	50
FK-MPT 0,5/ 9-3,5-H	**1928835**	50
FK-MPT 0,5/10-3,5-H	**1928848**	50
FK-MPT 0,5/11-3,5-H	**1928851**	50
FK-MPT 0,5/12-3,5-H	**1928864**	50
FK-MPT 0,5/13-3,5-H	**1928877**	50
FK-MPT 0,5/14-3,5-H	**1928880**	50
FK-MPT 0,5/15-3,5-H	**1928893**	50
FK-MPT 0,5/16-3,5-H	**1928903**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
FK-MPT 0,5/ 2-ST-3,5	**1913921**	50
FK-MPT 0,5/ 3-ST-3,5	**1913934**	50
FK-MPT 0,5/ 4-ST-3,5	**1913947**	50
FK-MPT 0,5/ 5-ST-3,5	**1913950**	50
FK-MPT 0,5/ 6-ST-3,5	**1913963**	50
FK-MPT 0,5/ 7-ST-3,5	**1913976**	50
FK-MPT 0,5/ 8-ST-3,5	**1913989**	50
FK-MPT 0,5/ 9-ST-3,5	**1913992**	50
FK-MPT 0,5/10-ST-3,5	**1914001**	50
FK-MPT 0,5/11-ST-3,5	**1914027**	50
FK-MPT 0,5/12-ST-3,5	**1914030**	50
FK-MPT 0,5/13-ST-3,5	**1914043**	50
FK-MPT 0,5/14-ST-3,5	**1914056**	50
FK-MPT 0,5/15-ST-3,5	**1914069**	50
FK-MPT 0,5/16-ST-3,5	**1914072**	50

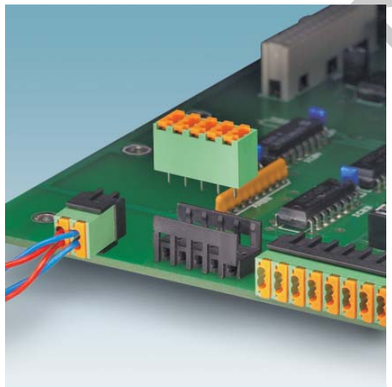
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Connection technology for building and LED applications
FK-MPT series

FK-MPT 0,5/...-IC(V)A base strips for spring-cage miniature terminal blocks

Notes:

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products**
or starting on page 388.

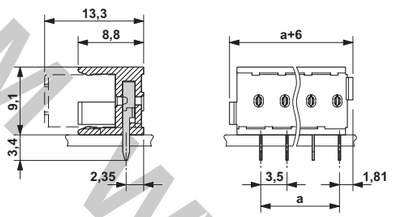


- Shock-proof header for FK-MPT PCB terminal block
- Pitch 3.5 mm
- Simple pre-assembly
- Available in vertical and horizontal versions
- With closed side panels
- Protection against mismating due to the asymmetrical layout of sockets

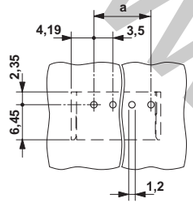


Base strip for FK-MPT 0,5/...-3,5, plug-in direction horizontal to the PCB

Dimensional drawing



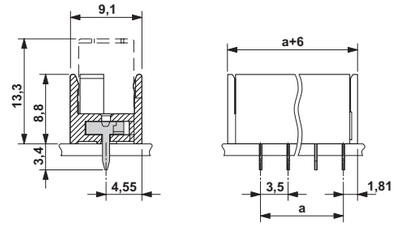
Drilling diagram



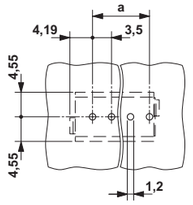


Base strip for FK-MPT 0,5/...-3,5, plug-in direction vertical to the PCB

Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current	[A]	3		
Rated insulation voltage for pollution degree 2	[V]	250		
Pitch	[mm]	3.5		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	160	250	250
Rated surge voltage	[kV]	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	4	-	4
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		PA / IIIa		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1 / 0,3 x 0,9 mm		

No. of pos.	Dim. a [mm]
2	3.50
3	7.00
4	10.50
5	14.00
6	17.50
7	21.00
8	24.50
9	28.00
10	31.50
11	35.00
12	38.50
13	42.00
14	45.50
15	49.00
16	52.50

Ordering data

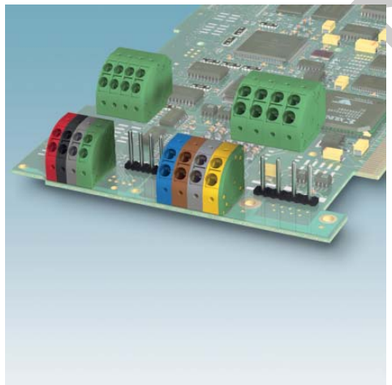
Type	Order No.	Pcs. / Pkt.
Pitch 3.5 mm, color: Black		
FK-MPT 0,5/ 2-ICA-3,5	**1930328**	50
FK-MPT 0,5/ 3-ICA-3,5	**1930331**	50
FK-MPT 0,5/ 4-ICA-3,5	**1930344**	50
FK-MPT 0,5/ 5-ICA-3,5	**1930357**	50
FK-MPT 0,5/ 6-ICA-3,5	**1930360**	50
FK-MPT 0,5/ 7-ICA-3,5	**1930373**	50
FK-MPT 0,5/ 8-ICA-3,5	**1930386**	50
FK-MPT 0,5/ 9-ICA-3,5	**1930399**	50
FK-MPT 0,5/10-ICA-3,5	**1930409**	50
FK-MPT 0,5/11-ICA-3,5	**1930412**	50
FK-MPT 0,5/12-ICA-3,5	**1930425**	50
FK-MPT 0,5/13-ICA-3,5	**1930438**	50
FK-MPT 0,5/14-ICA-3,5	**1930441**	50
FK-MPT 0,5/15-ICA-3,5	**1930454**	50
FK-MPT 0,5/16-ICA-3,5	**1930467**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 3.5 mm, color: Black		
FK-MPT 0,5/ 2-ICVA-3,5	**1930470**	50
FK-MPT 0,5/ 3-ICVA-3,5	**1930483**	50
FK-MPT 0,5/ 4-ICVA-3,5	**1930496**	50
FK-MPT 0,5/ 5-ICVA-3,5	**1930506**	50
FK-MPT 0,5/ 6-ICVA-3,5	**1930519**	50
FK-MPT 0,5/ 7-ICVA-3,5	**1930522**	50
FK-MPT 0,5/ 8-ICVA-3,5	**1930535**	50
FK-MPT 0,5/ 9-ICVA-3,5	**1930548**	50
FK-MPT 0,5/10-ICVA-3,5	**1930551**	50
FK-MPT 0,5/11-ICVA-3,5	**1930564**	50
FK-MPT 0,5/12-ICVA-3,5	**1930577**	50
FK-MPT 0,5/13-ICVA-3,5	**1930580**	50
FK-MPT 0,5/14-ICVA-3,5	**1930593**	50
FK-MPT 0,5/15-ICVA-3,5	**1930603**	50
FK-MPT 0,5/16-ICVA-3,5	**1930616**	50

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Angled PCB terminals with spring-cage double connection up to 2 x 1.5 mm²



- Spring-cage double connection using direct plug-in method with a release button
- Pitch 3.5 mm
- Large terminal block capacity with compact dimensions
- Optional color coding
- Connector with optional mechanical coding
- Attractive design for connection in the field of vision
- PCB terminal block and plug-in connector available

Notes:

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 388.

PTDA 1,5/...-PH-3,5 can be plugged onto the PST 1,0/...-3,5 pin strip, see page 432.

Pitch spacers for the PTDA series are available on request. For further information, visit **www.phoenixcontact.net/products**.

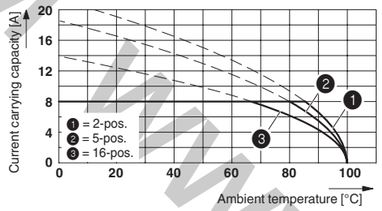
¹) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.

Accessories

For all types	Type	Page
	Screwdriver **SZF 0-0,4 x 2,5 Order No. 1204504**	
	Keying profile CP-PTDA **Order No. 1731361**	38
	Marker cards **SK 3,5/2,8**	797
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm² **CRIMPFOX 6 Order No. 1212034**	

Representative derating curve

Type: PTDA 1,5/...-PH-3,5
Derating curve determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Reduction factor = 0.8
Conductor cross section: 1.5 mm²



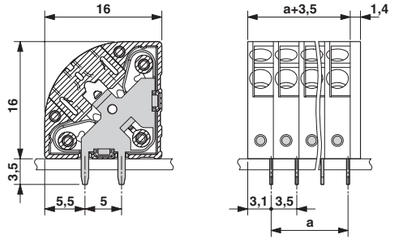


PCB terminal block with spring-cage double connection

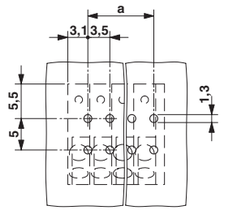


Plug component with spring-cage double connection, can be plugged onto PST 1,0/...-3,5 pin strip

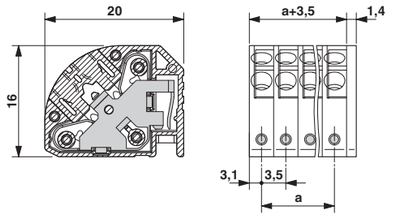
Dimensional drawing



Drilling diagram



Dimensional drawing



Technical data

		PTDA 1,5/ ...-3,5			PTDA 1,5/ ...-PH-3,5		
Technical data in accordance to IEC / DIN VDE							
Rated current / conductor cross section	[A] / [mm²]	13.5¹) / 1.5			8¹) / 1.5		
Rated insulation voltage for pollution degree 2	[V]	240			240		
Pitch	[mm]	3.5			3.5		
Connection capacity							
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 1.5 / 0.2 - 1.5 / 24 - 16			0.2 - 1.5 / 0.2 - 1.5 / 24 - 16		
Stranded with ferrules without plastic sleeve	[mm²]	0.5 - 1.5			0.5 - 1.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.5 - 0.5			0.5 - 0.5		
Multi-conductor connection capacity (two conductors with the same cross section)							
Solid / stranded	[mm²]	0.2 - 1.5 / 0.2 - 1.5			0.2 - 1.5 / 0.2 - 1.5		
Stranded with ferrules without plastic sleeve	[mm²]	0.5 - 1.5			0.5 - 1.5		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 0.5			0.5 - 0.5		
Insulation coordination							
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	200	240	400	160	240	400
Rated surge voltage	[kV]	2.5	2.5	2.5	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	300	-	300	150	-	300
Nominal current	[A]	12	-	10	10	-	10
Connection capacity AWG	AWG	24 - 16	24 - 16	24 - 16	24 - 16	24 - 16	24 - 16
Approval data (CSA)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-
General data							
Stripping length	[mm]	10			10		
Type of insulation material / insulation material group		PA / I			PA / I		
Inflammability class according to UL 94		V0			V0		
Drill hole diameter / pin dimensions	[mm]	1.3 / 1,0 x 0,4			- / -		

No. of pos.	Dim. a [mm]
2	3.50
3	7.00
4	10.50
5	14.00
6	17.50
7	21.00
8	24.50
9	28.00
10	31.50
11	35.00
12	38.50
13	42.00
14	45.50
15	49.00
16	52.50

Ordering data

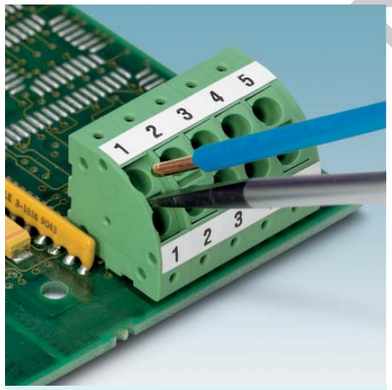
Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
PTDA 1,5/ 2-3,5	1724912	50
PTDA 1,5/ 3-3,5	1724925	50
PTDA 1,5/ 4-3,5	1724938	50
PTDA 1,5/ 5-3,5	1724951	50
PTDA 1,5/ 6-3,5	1724964	50
PTDA 1,5/ 7-3,5	1724977	50
PTDA 1,5/ 8-3,5	1724996	50
PTDA 1,5/ 9-3,5	1725003	50
PTDA 1,5/10-3,5	1725016	50
PTDA 1,5/11-3,5	1725029	50
PTDA 1,5/12-3,5	1725042	50
PTDA 1,5/13-3,5	1725055	50
PTDA 1,5/14-3,5	1725068	50
PTDA 1,5/15-3,5	1725081	50
PTDA 1,5/16-3,5	1725094	50

Ordering data

Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
PTDA 1,5/ 2-PH-3,5	1725107	250
PTDA 1,5/ 3-PH-3,5	1725120	250
PTDA 1,5/ 4-PH-3,5	1725133	250
PTDA 1,5/ 5-PH-3,5	1725146	100
PTDA 1,5/ 6-PH-3,5	1725159	100
PTDA 1,5/ 7-PH-3,5	1725172	100
PTDA 1,5/ 8-PH-3,5	1725185	100
PTDA 1,5/ 9-PH-3,5	1725198	100
PTDA 1,5/10-PH-3,5	1725211	100
PTDA 1,5/11-PH-3,5	1725224	50
PTDA 1,5/12-PH-3,5	1725237	50
PTDA 1,5/13-PH-3,5	1725250	50
PTDA 1,5/14-PH-3,5	1725263	50
PTDA 1,5/15-PH-3,5	1725276	50
PTDA 1,5/16-PH-3,5	1725289	50

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Angled PCB terminals with spring-cage double connection up to 2 x 2.5 mm²



- Spring-cage double connection using direct plug-in method with a release button
- 5.0 mm pitch
- Large terminal block capacity with compact dimensions
- Optional color coding
- Connector with optional mechanical coding
- Attractive design for connection in the field of vision
- PCB terminal block and plug-in connector available

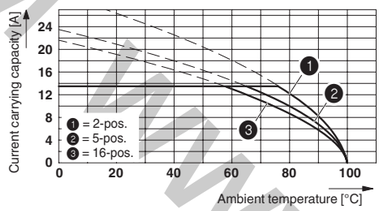
Notes:
In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
COMBICON select You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 388.
PTDA 2,5/...-PH-5,0 can be plugged onto the PST 1,3/...-5,0 pin strip, see page 434.
8 mm ferrules can be used.
Pitch spacers for the PTDA series are available on request. For further information, visit **www.phoenixcontact.net/products**.
1) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.

Accessories

For all types	Type	Page
	Screwdriver **SZF 1-0,6 x 3,5** **Order No.** **1204517**	
	Keying profile CP-PTDA **Order No.** **1731361**	38
	Marker cards **SK 5/3,8**	798
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm² **CRIMPFOX 6** **Order No.** **1212034**	

Representative derating curve

Type: PTDA 2,5/ 16-PH-5,0
Derating curve, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Reduction factor = 0.8
Conductor cross section: 2.5 mm²



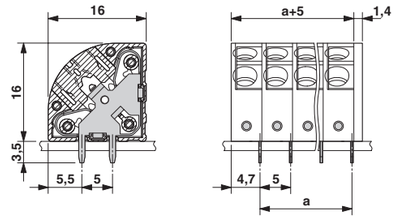


PCB terminal block with spring-cage double connection

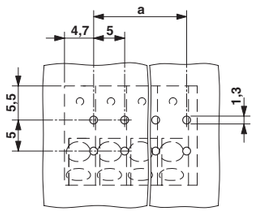


Plug component with spring-cage double connection, can be plugged onto PST 1,3/...-5,0 pin strip

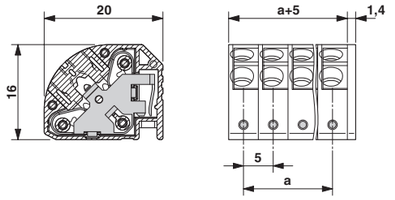
Dimensional drawing



Drilling diagram



Dimensional drawing



Technical data

		PTDA 2,5/ ...-5,0			PTDA 2,5/ ...-PH-5,0		
Technical data in accordance to IEC / DIN VDE							
Rated current / conductor cross section	[A] / [mm²]	24[1]) / 2.5			13.5[1]) / 2.5		
Rated insulation voltage for pollution degree 2	[V]	400			400		
Pitch	[mm]	5			5		
Connection capacity							
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 2.5 / 0.2 - 2.5 / 24 - 14			0.2 - 2.5 / 0.2 - 2.5 / 24 - 14		
Stranded with ferrules without plastic sleeve	[mm²]	0.5 - 2.5			0.5 - 2.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.5 - 1			0.5 - 1		
Multi-conductor connection capacity (two conductors with the same cross section)							
Solid / stranded	[mm²]	0.2 - 2.5 / 0.2 - 2.5			0.2 - 2.5 / 0.2 - 2.5		
Stranded with ferrules without plastic sleeve	[mm²]	0.5 - 2.5			0.5 - 2.5		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 1			0.5 - 1		
Insulation coordination							
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	320	400	630	320	400	630
Rated surge voltage	[kV]	4	4	4	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	300	-	300	300	150	300
Nominal current	[A]	15	-	10	13.5	13.5	10
Connection capacity AWG	AWG	24 - 14	24 - 14	24 - 14	24 - 14	24 - 14	24 - 14
Approval data (CSA)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-
General data							
Stripping length	[mm]	10			10		
Type of insulation material / insulation material group		PA / I			PA / I		
Inflammability class according to UL 94		V0			V0		
Drill hole diameter / pin dimensions	[mm]	1.3 / 1,0 x 0,4			- / -		

No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00
5	20.00
6	25.00
7	30.00
8	35.00
9	40.00
10	45.00
11	50.00
12	55.00
13	60.00
14	65.00
15	70.00
16	75.00

Ordering data

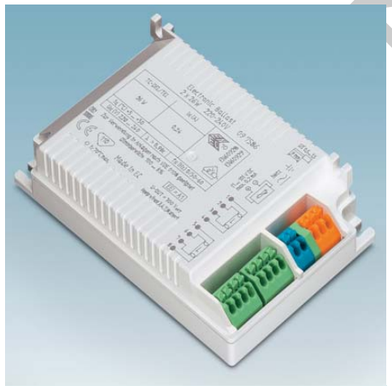
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
PTDA 2,5/ 2-5,0	**1725302**	50
PTDA 2,5/ 3-5,0	**1725315**	50
PTDA 2,5/ 4-5,0	**1725328**	50
PTDA 2,5/ 5-5,0	**1725341**	50
PTDA 2,5/ 6-5,0	**1725354**	50
PTDA 2,5/ 7-5,0	**1725367**	50
PTDA 2,5/ 8-5,0	**1725380**	50
PTDA 2,5/ 9-5,0	**1725393**	50
PTDA 2,5/10-5,0	**1725406**	50
PTDA 2,5/11-5,0	**1725419**	50
PTDA 2,5/12-5,0	**1725432**	50
PTDA 2,5/13-5,0	**1725445**	50
PTDA 2,5/14-5,0	**1725458**	50
PTDA 2,5/15-5,0	**1725471**	50
PTDA 2,5/16-5,0	**1725484**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
PTDA 2,5/ 2-PH-5,0	**1725497**	250
PTDA 2,5/ 3-PH-5,0	**1725510**	250
PTDA 2,5/ 4-PH-5,0	**1725523**	250
PTDA 2,5/ 5-PH-5,0	**1725536**	100
PTDA 2,5/ 6-PH-5,0	**1725549**	100
PTDA 2,5/ 7-PH-5,0	**1725623**	100
PTDA 2,5/ 8-PH-5,0	**1725636**	100
PTDA 2,5/ 9-PH-5,0	**1725649**	100
PTDA 2,5/10-PH-5,0	**1725652**	100
PTDA 2,5/11-PH-5,0	**1725665**	50
PTDA 2,5/12-PH-5,0	**1725678**	50
PTDA 2,5/13-PH-5,0	**1725640**	50
PTDA 2,5/14-PH-5,0	**1725653**	50
PTDA 2,5/15-PH-5,0	**1725666**	50
PTDA 2,5/16-PH-5,0	**1725679**	50

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Angled spring-cage PCB terminal blocks up to 0.5 mm²



- Compact type with simple operation and direct plug-in method
- 2.5 mm pitch
- Increase in the dielectric strength and the mechanical stability thanks to zig-zag pinning. The pinning process always begins from the front right position. Special pinning available on request.
- Color coding and mixed pitch as an option

Notes:

[1]) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.

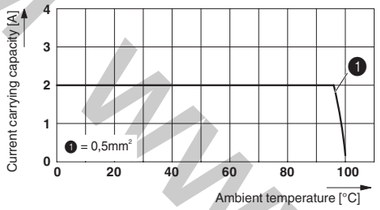
[2]) Only with pitch spacer.

Accessories

For all types	Type	Page
	Screwdriver **SZF 0-0,4 x 2,5** **Order No.** **1204504**	

Current carrying capacity curve

Type: PTSA 0,5/5-2,5-Z
Test following DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5



No. of pos.	Dim. a [mm]
2	2.50
3	5.00
4	7.50
5	10.00
6	12.50
7	15.00
8	17.50
9	20.00
10	22.50
11	25.00
12	27.50
13	30.00
14	32.50
15	35.00
16	37.50

Technical data

		PTSA 0,5/ ...-2,5-Z			PTSA 0,5/ ...-2,5-F		
Technical data in accordance to IEC / DIN VDE							
Rated current / conductor cross section	[A] / [mm²]	2[1]) / 0.5			2[1]) / 0.5		
Rated insulation voltage for pollution degree 2	[V]	250			250		
Pitch	[mm]	2.5			2.5		
Connection capacity							
Solid / stranded	[mm²] / [mm²] / AWG	0.14 - 0.5 / 0.2 - 0.5 / 24 - 20			0.14 - 0.5 / 0.2 - 0.5 / 24 - 20		
Stranded with ferrules without plastic sleeve	[mm²]	-			-		
Stranded with ferrules with plastic sleeve	[mm²]	-			-		
Multi-conductor connection capacity (two conductors with the same cross section)							
Solid / stranded	[mm²]	- / -			- / -		
Stranded with ferrules without plastic sleeve	[mm²]	-			-		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	-			-		
Insulation coordination							
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	160	250	400	63	250	250
Rated surge voltage	[kV]	2.5	2.5	2.5	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	300	-	300	150	-	300[2])
Nominal current	[A]	2	-	2	2	-	2[2])
Connection capacity AWG	AWG	26 - 20	-	26 - 20	26 - 20	-	26 - 20
Approval data (CSA)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-
General data							
Stripping length	[mm]	9			9		
Type of insulation material / insulation material group		PA / I			PA / I		
Inflammability class according to UL 94		V0			V0		
Drill hole diameter / pin dimensions	[mm]	1 / 0,4 x 0,75			1 / 0,4 x 0,75		

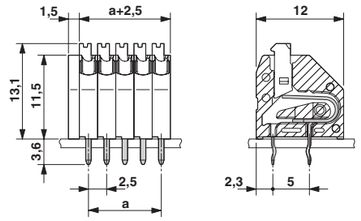
Connection technology for building and LED applications
PTSA series



PCB terminal blocks with 2.5 mm pitch and offset solder pins

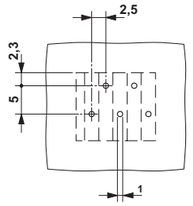
cULus VDE CCA

Dimensional drawing



Drilling diagram

The zig-zag pinning starts at the right-hand position. Other pinning on request.



Ordering data

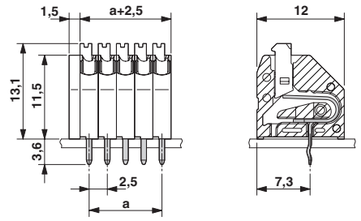
Type	Order No.	Pcs. / Pkt.
Pitch 2.5 mm, color: Green		
PTSA 0,5/ 2-2,5-Z	**1990009**	250
PTSA 0,5/ 3-2,5-Z	**1990012**	250
PTSA 0,5/ 4-2,5-Z	**1990025**	250
PTSA 0,5/ 5-2,5-Z	**1990038**	100
PTSA 0,5/ 6-2,5-Z	**1990041**	100
PTSA 0,5/ 7-2,5-Z	**1990054**	100
PTSA 0,5/ 8-2,5-Z	**1990067**	100
PTSA 0,5/ 9-2,5-Z	**1990070**	100
PTSA 0,5/10-2,5-Z	**1990083**	100
PTSA 0,5/11-2,5-Z	**1990096**	50
PTSA 0,5/12-2,5-Z	**1990106**	50
PTSA 0,5/13-2,5-Z	**1990119**	50
PTSA 0,5/14-2,5-Z	**1990122**	50
PTSA 0,5/15-2,5-Z	**1990135**	50
PTSA 0,5/16-2,5-Z	**1990148**	50



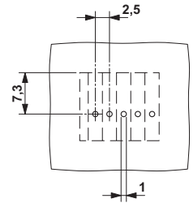
PCB terminal blocks with 2.5 mm pitch, solder pins at the front

cULus VDE CCA

Dimensional drawing



Drilling diagram



Ordering data

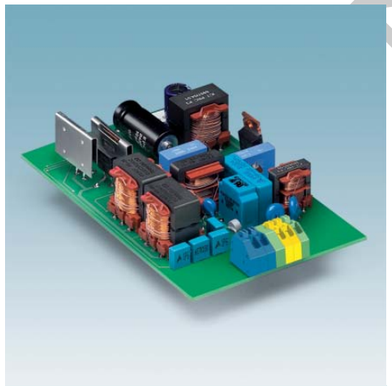
Type	Order No.	Pcs. / Pkt.
Pitch 2.5 mm, color: Green		
PTSA 0,5/ 2-2,5-F	**1989748**	250
PTSA 0,5/ 3-2,5-F	**1989751**	250
PTSA 0,5/ 4-2,5-F	**1989764**	250
PTSA 0,5/ 5-2,5-F	**1989777**	100
PTSA 0,5/ 6-2,5-F	**1989780**	100
PTSA 0,5/ 7-2,5-F	**1989793**	100
PTSA 0,5/ 8-2,5-F	**1989803**	100
PTSA 0,5/ 9-2,5-F	**1989816**	100
PTSA 0,5/10-2,5-F	**1989829**	100
PTSA 0,5/11-2,5-F	**1989832**	50
PTSA 0,5/12-2,5-F	**1989845**	50
PTSA 0,5/13-2,5-F	**1989858**	50
PTSA 0,5/14-2,5-F	**1989861**	50
PTSA 0,5/15-2,5-F	**1989874**	50
PTSA 0,5/16-2,5-F	**1989887**	50

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Angled spring-cage PCB terminal blocks up to 1.5 mm²

Notes:

[1]) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.



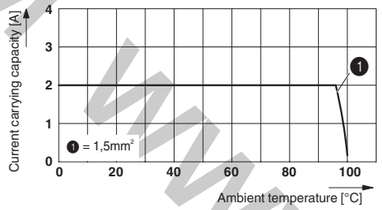
- Compact type with simple operation and direct plug-in method
- Pitch 3.5 mm
- Increase in the dielectric strength and the mechanical stability thanks to zig-zag pinning. The pinning process always begins from the front right position. Special pinning available on request.
- Color coding and mixed pitch as an option

Accessories

For all types	Type	Page
	Screwdriver **SZF 0-0,4 x 2,5 Order No. 1204504**	
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm² **CRIMPFOX 6 Order No. 1212034**	

Current carrying capacity curve

Type: PTSA 1,5/5-3,5-Z
Test following DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5



No. of pos.	Dim. a [mm]
2	3.50
3	7.00
4	10.50
5	14.00
6	17.50
7	21.00
8	24.50
9	28.00
10	31.50
11	35.00
12	38.50
13	42.00
14	45.50
15	49.00
16	52.50

Technical data

		PTSA 1,5/ ...-3,5-Z			PTSA 1,5/ ...-3,5-F		
Technical data in accordance to IEC / DIN VDE							
Rated current / conductor cross section	[A] / [mm²]	2[1]) / 1.5			2[1]) / 1.5		
Rated insulation voltage for pollution degree 2	[V]	400			250		
Pitch	[mm]	3.5			3.5		
Connection capacity							
Solid / stranded	[mm²] / [mm²] / AWG	0.5 - 1.5 / 0.5 - 1.5 / 20 - 16			0.5 - 1.5 / 0.5 - 1.5 / 20 - 16		
Stranded with ferrules without plastic sleeve	[mm²]	0.5 - 1			0.5 - 1		
Stranded with ferrules with plastic sleeve	[mm²]	0.5 - 0.5			0.5 - 0.5		
Multi-conductor connection capacity (two conductors with the same cross section)							
Solid / stranded	[mm²]	- / -			- / -		
Stranded with ferrules without plastic sleeve	[mm²]	-			-		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	-			-		
Insulation coordination							
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250	400	630	200	250	400
Rated surge voltage	[kV]	4	4	4	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	300	-	300	300	-	300
Nominal current	[A]	2	-	2	2	-	2
Connection capacity AWG	AWG	24 - 16	-	24 - 16	24 - 16	-	24 - 16
Approval data (CSA)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-
General data							
Stripping length	[mm]	9			9		
Type of insulation material / insulation material group		PA / I			PA / I		
Inflammability class according to UL 94		V0			V0		
Drill hole diameter / pin dimensions	[mm]	1 / 0,4 x 0,75 mm			1 / 0,4 x 0,75 mm		



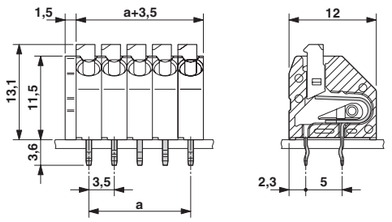
PCB terminal blocks with 3.5 mm pitch and offset solder pins



PCB terminal blocks with 3.5 mm pitch, solder pins at the front

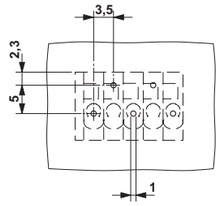
cULus VDE CCA

Dimensional drawing



Drilling diagram

The zig-zag pinning starts at the right-hand position. Other pinning on request.

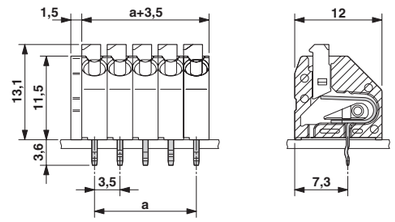


Ordering data

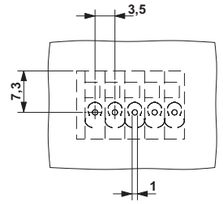
Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
PTSA 1,5/ 2-3,5-Z	**1985195**	250
PTSA 1,5/ 3-3,5-Z	**1985205**	250
PTSA 1,5/ 4-3,5-Z	**1985218**	250
PTSA 1,5/ 5-3,5-Z	**1985221**	100
PTSA 1,5/ 6-3,5-Z	**1985234**	100
PTSA 1,5/ 7-3,5-Z	**1985247**	100
PTSA 1,5/ 8-3,5-Z	**1985250**	100
PTSA 1,5/ 9-3,5-Z	**1985263**	100
PTSA 1,5/10-3,5-Z	**1985276**	100
PTSA 1,5/11-3,5-Z	**1985289**	50
PTSA 1,5/12-3,5-Z	**1985292**	50
PTSA 1,5/13-3,5-Z	**1985302**	50
PTSA 1,5/14-3,5-Z	**1985315**	50
PTSA 1,5/15-3,5-Z	**1985328**	50
PTSA 1,5/16-3,5-Z	**1985331**	50

cULus VDE CCA

Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
PTSA 1,5/ 2-3,5-F	**1984963**	250
PTSA 1,5/ 3-3,5-F	**1984976**	250
PTSA 1,5/ 4-3,5-F	**1984989**	250
PTSA 1,5/ 5-3,5-F	**1984992**	100
PTSA 1,5/ 6-3,5-F	**1985001**	100
PTSA 1,5/ 7-3,5-F	**1985014**	100
PTSA 1,5/ 8-3,5-F	**1985027**	100
PTSA 1,5/ 9-3,5-F	**1985030**	100
PTSA 1,5/10-3,5-F	**1985043**	100
PTSA 1,5/11-3,5-F	**1985056**	50
PTSA 1,5/12-3,5-F	**1985069**	50
PTSA 1,5/13-3,5-F	**1985072**	50
PTSA 1,5/14-3,5-F	**1985085**	50
PTSA 1,5/15-3,5-F	**1985098**	50
PTSA 1,5/16-3,5-F	**1985108**	50

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Horizontal PCB terminal block for conductor cross sections of up to 2.5 mm²



- Conductor connection with direct plug-in method
- 5.0 mm pitch
- 7.5 mm pitch available on request
- Conductor cross section up to 2.5 mm²
- Finger-operated release button
- Test connection
- Compact design

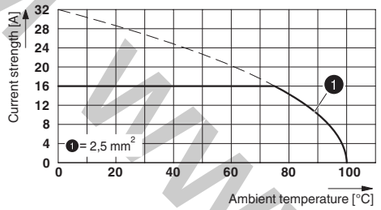
Notes:
A load current of 16 A is possible for a cable cross section of 2.5 mm²
1) For 2.5 mm² solid conductor type, please observe the installation note in the data sheet.
2) Please observe derating curve.

Accessories

For all types	Type	Page
	Screwdriver **SZF 0-0,4 x 2,5** **Order No. 1204504**	
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm² **CRIMPFOX 6** **Order No. 1212034**	

Current carrying capacity curve

Type: PTS 1,5/5-5,0-H
Tested in accordance with DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5



Technical data

		PTS 1,5/ ...-5,0-H			PTS 1,5/ ...-7,5-H		
Technical data in accordance to IEC / DIN VDE							
Rated current / conductor cross section	[A] / [mm²]	12²) / 2,5¹)			12²) / 2,5¹)		
Rated insulation voltage for pollution degree 2	[V]	400			630		
Pitch	[mm]	5			7.5		
Solid / stranded	[mm²] / [mm²] / AWG	0.14 - 2.5¹) / 0.14 - 2.5 / 26 - 14			0.14 - 2.5¹) / 0.14 - 2.5 / 26 - 14		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 1.5			0.25 - 1.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 1.5			0.25 - 1.5		
Multi-conductor connection capacity (two conductors with the same cross section)							
Solid / stranded	[mm²]	- / -			- / -		
Stranded with ferrules without plastic sleeve	[mm²]	-			-		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	-			-		
Insulation coordination							
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250	400	630	400	630	1000
Rated surge voltage	[kV]	4	4	4	6	6	6
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	300	-	300	300	-	300
Nominal current	[A]	10	-	10	10	-	10
Connection capacity AWG	AWG	26 - 14	-	26 - 14	26 - 14	-	26 - 14
Approval data (CSA)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-
General data							
Stripping length	[mm]	8			8		
Type of insulation material / insulation material group		PA / I			PA / I		
Inflammability class according to UL 94		V0			V0		
Drill hole diameter / pin dimensions	[mm]	1.2 / 0,83 x 0,5 mm			1.2 / 0,83 x 0,5 mm		

No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00
5	20.00
6	25.00
7	30.00
8	35.00
9	40.00
10	45.00
11	50.00
12	55.00
2	7.50
3	15.00
4	22.50
5	30.00
6	37.50
7	45.00
8	52.50
9	60.00
10	67.50
11	75.00
12	82.50

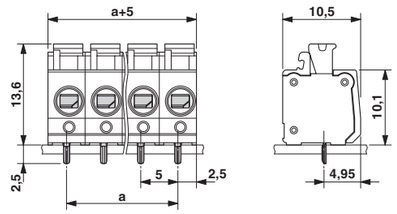


Spring-cage PCB terminal block, 5.0 mm pitch

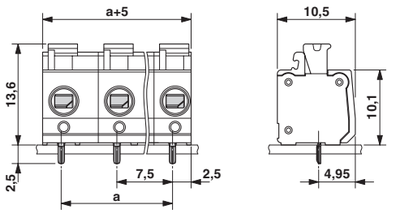


Spring-cage PCB terminal block, 7.5 mm pitch

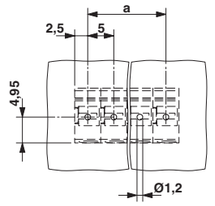
Dimensional drawing



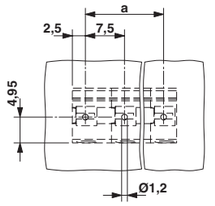
Dimensional drawing



Drilling diagram



Drilling diagram



Ordering data

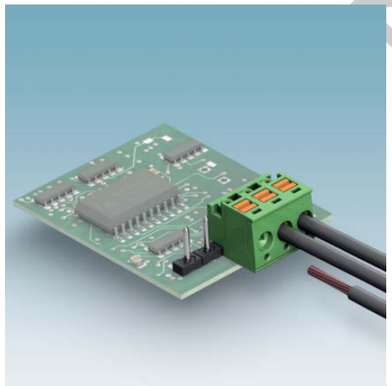
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
PTS 1,5/ 2-5,0-H	**1792863**	250
PTS 1,5/ 3-5,0-H	**1792876**	250
PTS 1,5/ 4-5,0-H	**1792889**	250
PTS 1,5/ 5-5,0-H	**1792892**	100
PTS 1,5/ 6-5,0-H	**1792902**	100
PTS 1,5/ 7-5,0-H	**1792915**	100
PTS 1,5/ 8-5,0-H	**1792928**	100
PTS 1,5/ 9-5,0-H	**1792931**	100
PTS 1,5/10-5,0-H	**1792944**	100
PTS 1,5/11-5,0-H	**1792957**	50
PTS 1,5/12-5,0-H	**1792960**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
7.5 mm pitch, color: Green		
PTS 1,5/ 2-7,5-H	**1703083**	250
PTS 1,5/ 3-7,5-H	**1703084**	250
PTS 1,5/ 4-7,5-H	**1703086**	250
PTS 1,5/ 5-7,5-H	**1703087**	100
PTS 1,5/ 6-7,5-H	**1703088**	100
PTS 1,5/ 7-7,5-H	**1703090**	100
PTS 1,5/ 8-7,5-H	**1703091**	100
PTS 1,5/ 9-7,5-H	**1703093**	100
PTS 1,5/10-7,5-H	**1703094**	100
PTS 1,5/11-7,5-H	**1703095**	50
PTS 1,5/12-7,5-H	**1703096**	50

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Plug with spring connection for pin strips



- Compact external dimensions
- Conductor connection with Push-in technology
- 5.0 mm pitch
- Compatible with standard pin strips
- Connection cross section of up 2.5 mm²
- Coding option and test connection
- Monoblock design
- Pin strip with latching available

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

1) UL/CUL on request.

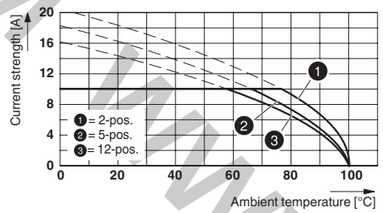
2) Please observe derating curve.

Accessories

For all types	Type	Page
	Screwdriver **SZF 1-0,6 x 3,5** **Order No. 1204517**	
Only for PTS 1,5...PH		
	Keying profile CP-PTDA **Order No. 1731361**	38
Only for PTS 1,5...PH and PTS 1,5/...H		
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm² **CRIMPFOX 6** **Order No. 1212034**	

Representative derating curve

Type: PTS 1,5/...-PH-5,0 with PST 1,3/...-5,0
Tested in accordance with DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5



No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00
5	20.00
6	25.00
7	30.00
8	35.00
9	40.00
10	45.00
11	50.00
12	55.00

Technical data

		PTS 1,5/ ...-PH-5,0			PST 1,3/ ...-5,0-SF		
Technical data in accordance to IEC / DIN VDE							
Rated current / conductor cross section	[A] / [mm²]	10²) / 2.5			12²)		
Rated insulation voltage for pollution degree 2	[V]	400			320		
Pitch	[mm]	5			5		
Connection capacity							
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 2.5 / 0.2 - 2.5 / 26 - 14			- / - / -		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 1.5			-		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 1			-		
Multi-conductor connection capacity (two conductors with the same cross section)							
Solid / stranded	[mm²]	- / -			- / -		
Stranded with ferrules without plastic sleeve	[mm²]	-			-		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	-			-		
Insulation coordination							
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250	400	600	250	320	600
Rated surge voltage	[kV]	4	4	4	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-
Approval data (CSA)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-
General data							
Stripping length	[mm]	8			-		
Type of insulation material / insulation material group		PA / I			PA / IIIa		
Inflammability class according to UL 94		V0			V0		

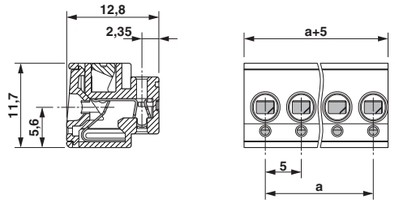


Spring-cage connector, can be plugged into PST 1,3/…-5,0 and PST 1,3/…-5,0-SF pin strips

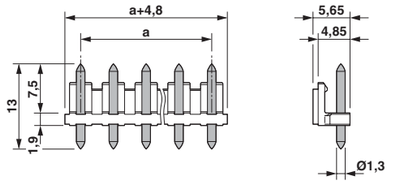


Pin strip with snap-lock fitting

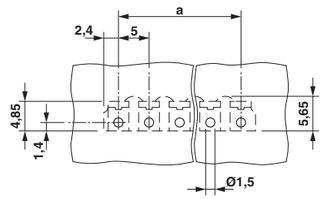
Dimensional drawing



Dimensional drawing



Drilling diagram



Ordering data

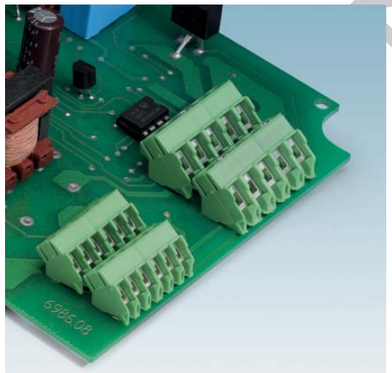
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
PTS 1,5/ 2-PH-5,0	**1805517**	250
PTS 1,5/ 3-PH-5,0	**1805520**	250
PTS 1,5/ 4-PH-5,0	**1805533**	250
PTS 1,5/ 5-PH-5,0	**1805546**	100
PTS 1,5/ 6-PH-5,0	**1805559**	100
PTS 1,5/ 7-PH-5,0	**1805562**	100
PTS 1,5/ 8-PH-5,0	**1805575**	100
PTS 1,5/ 9-PH-5,0	**1805588**	100
PTS 1,5/10-PH-5,0	**1805591**	100
PTS 1,5/11-PH-5,0	**1805601**	50
PTS 1,5/12-PH-5,0	**1805614**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 5.0 mm, color: Black		
PST 1,3/ 2-5,0-SF	**1805627**	250
PST 1,3/ 3-5,0-SF	**1805630**	250
PST 1,3/ 4-5,0-SF	**1805643**	250
PST 1,3/ 5-5,0-SF	**1805656**	100
PST 1,3/ 6-5,0-SF	**1805669**	100
PST 1,3/ 7-5,0-SF	**1805672**	100
PST 1,3/ 8-5,0-SF	**1805685**	100

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PCB terminal blocks with a screw connection up to 1.5 mm²



- High terminal block capacity thanks to rectangular terminal block space
- Pitch 3.5 mm
- Highly flexible conductor protection for easy, repeated connecting
- Rugged design with high current carrying capacity
- Plus/minus screw

Notes:

[1]) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.

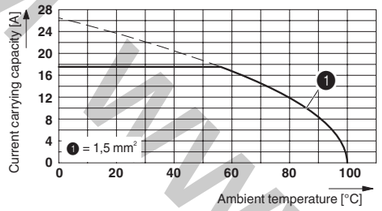
[2]) When using ferrules, max. 125 V are only achieved in combination with surge voltage category/pollution degree II/2.

Accessories

For all types	Type	Page
	Marker cards **SK 3,5/2,8**	797
	Screwdriver **SZS 0,4 x 2,5 Order No. 1205037**	

Current carrying capacity curve

Type: PTA 1,5/5-3,5
Test following DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5

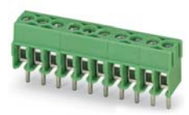


Technical data

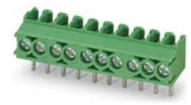
		PT 1,5/ ...-3,5-H			PT 1,5/ ...-3,5-V			PTA 1,5/ ...-3,5		
Technical data in accordance to IEC / DIN VDE										
Rated current / conductor cross section	[A] / [mm²]	17.5[1]) / 1.5			17.5[1]) / 1.5			17.5[1]) / 1.5		
Rated insulation voltage for pollution degree 2	[V]	200			200			200		
Pitch	[mm]	3.5			3.5			3.5		
Connection capacity										
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 1.5 / 0.2 - 1.5 / 26 - 16			0.2 - 1.5 / 0.2 - 1.5 / 26 - 16			0.14 - 1.5 / 0.14 - 1.5 / 26 - 16		
Stranded with ferrules without plastic sleeve	[mm²]	-			-			-		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 0.75[2])			0.25 - 0.75[2])			0.25 - 0.75[2])		
Multi-conductor connection capacity (two conductors with the same cross section)										
Solid / stranded	[mm²]	0.2 - 0.34 / 0.2 - 0.5			0.2 - 0.34 / 0.2 - 0.5			0.14 - 0.5 / 0.14 - 0.5		
Stranded with ferrules without plastic sleeve	[mm²]	-			-			-		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	-			-			-		
Insulation coordination										
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	160	200	400	160	200	400	160	200	400
Rated surge voltage	[kV]	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	300	-	300	300	-	300	300	-	300
Nominal current	[A]	10	-	10	10	-	10	10	-	10
Connection capacity AWG	AWG	26 - 16	-	26 - 16	26 - 16	-	26 - 16	26 - 16	-	26 - 16
Approval data (CSA)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-	-	-	-
General data										
Stripping length	[mm]	5			5			5		
Screw thread		M2			M2			M2		
Tightening torque	[Nm]	0.22 - 0.25			0.22 - 0.25			0.22 - 0.25		
Type of insulation material / insulation material group		PA / I			PA / I			PA / I		
Inflammability class according to UL 94		V0			V0			V0		
Drill hole diameter / pin dimensions	[mm]	1.2 / 0,9 mm			1.2 / 0,9 mm			1.2 / 0,9 mm		

No. of pos.	Dim. a [mm]
2	3.50
3	7.00
4	10.50
5	14.00
6	17.50
7	21.00
8	24.50
9	28.00
10	31.50
11	35.00
12	38.50
13	42.00
14	45.50
15	49.00
16	52.50

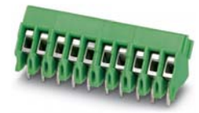
Connection technology for building and LED applications
PT 1.5 series



PCB terminal block, connection direction horizontal to the PCB



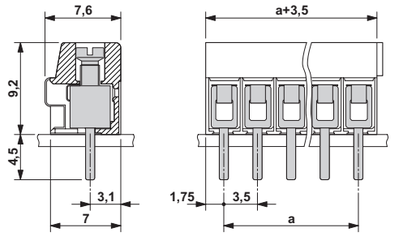
PCB terminal block, connection direction vertical to the PCB

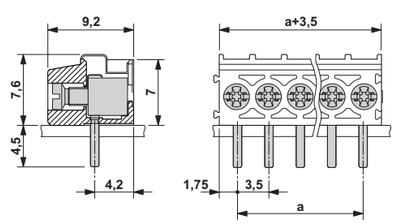


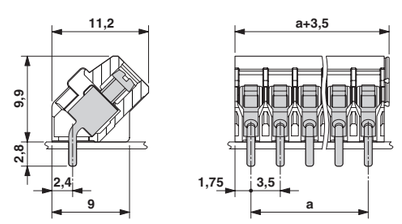
PCB terminal block with 45° angled connection

CCA

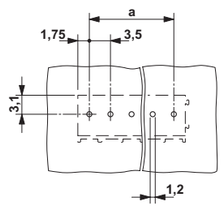
Dimensional drawing

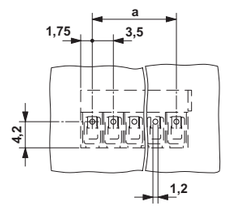


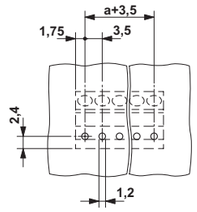




Drilling diagram







Ordering data

Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
PT 1,5/ 2-3,5-H	**1984617**	250
PT 1,5/ 3-3,5-H	**1984620**	250
PT 1,5/ 4-3,5-H	**1984633**	250
PT 1,5/ 5-3,5-H	**1984646**	100
PT 1,5/ 6-3,5-H	**1984659**	100
PT 1,5/ 7-3,5-H	**1984662**	100
PT 1,5/ 8-3,5-H	**1984675**	100
PT 1,5/ 9-3,5-H	**1984688**	100
PT 1,5/10-3,5-H	**1984691**	100
PT 1,5/11-3,5-H	**1984701**	50
PT 1,5/12-3,5-H	**1984714**	50
PT 1,5/13-3,5-H	**1984727**	50
PT 1,5/14-3,5-H	**1984730**	50
PT 1,5/15-3,5-H	**1984743**	50
PT 1,5/16-3,5-H	**1984756**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
PT 1,5/ 2-3,5-V	**1984769**	250
PT 1,5/ 3-3,5-V	**1984772**	250
PT 1,5/ 4-3,5-V	**1984785**	250
PT 1,5/ 5-3,5-V	**1984798**	100
PT 1,5/ 6-3,5-V	**1984808**	100
PT 1,5/ 7-3,5-V	**1984811**	100
PT 1,5/ 8-3,5-V	**1984824**	100
PT 1,5/ 9-3,5-V	**1984837**	100
PT 1,5/10-3,5-V	**1984840**	100
PT 1,5/11-3,5-V	**1984853**	50
PT 1,5/12-3,5-V	**1984866**	50
PT 1,5/13-3,5-V	**1984879**	50
PT 1,5/14-3,5-V	**1984882**	50
PT 1,5/15-3,5-V	**1984895**	50
PT 1,5/16-3,5-V	**1984905**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
PTA 1,5/ 2-3,5	**1988956**	250
PTA 1,5/ 3-3,5	**1988969**	250
PTA 1,5/ 4-3,5	**1988972**	250
PTA 1,5/ 5-3,5	**1988985**	100
PTA 1,5/ 6-3,5	**1988998**	100
PTA 1,5/ 7-3,5	**1989007**	100
PTA 1,5/ 8-3,5	**1989010**	100
PTA 1,5/ 9-3,5	**1989023**	100
PTA 1,5/10-3,5	**1989036**	100
PTA 1,5/11-3,5	**1989049**	50
PTA 1,5/12-3,5	**1989052**	50
PTA 1,5/13-3,5	**1989065**	50
PTA 1,5/14-3,5	**1989078**	50
PTA 1,5/15-3,5	**1989081**	50
PTA 1,5/16-3,5	**1989094**	50

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PCB terminal blocks with a screw connection up to 2.5 mm²



- High terminal block capacity thanks to rectangular terminal block space
- 5.0 mm pitch
- Highly flexible conductor protection for easy, repeated connecting
- Rugged design with high current carrying capacity
- Plus/minus screw

Notes:

[1]) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.

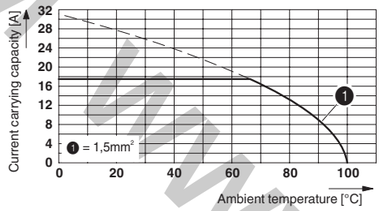
[2]) When using ferrules, 250 V are only achieved in combination with surge voltage category/pollution degree II/2.

Accessories

For all types	Type	Page
	Marker cards **SK 5/3,8**	798
	Screwdriver **SZS 0,6 x 3,5 Order No. 1205053**	

Current carrying capacity curve

Type: PT 1,5/5-5,0-H
Test following DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5



Technical data

		PT 1,5/ ...-5,0-H			PT 1,5/ ...-5,0-V			PTA 1,5/ ...-5,0		
Technical data in accordance to IEC / DIN VDE										
Rated current / conductor cross section	[A] / [mm²]	17.5[1]) / 2.5			17.5[1]) / 2.5			17.5[1]) / 2.5		
Rated insulation voltage for pollution degree 2	[V]	400			400			400		
Pitch	[mm]	5			5			5		
Connection capacity										
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 2.5 / 0.2 - 2.5 / 26 - 14			0.2 - 2.5 / 0.2 - 2.5 / 26 - 14			0.14 - 2.5 / 0.14 - 2.5 / 26 - 14		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 1.5[2])			0.25 - 1.5[2])			0.25 - 1.5[2])		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 1.5[2])			0.25 - 1.5[2])			0.25 - 1.5[2])		
Multi-conductor connection capacity (two conductors with the same cross section)										
Solid / stranded	[mm²]	0.2 - 0.75 / 0.2 - 0.75			0.2 - 0.75 / 0.2 - 0.75			0.14 - 1 / 0.14 - 0.75		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 0.34[2])			0.25 - 0.34[2])			0.25 - 0.34[2])		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 0.75[2])			0.5 - 0.75[2])			0.25 - 0.75[2])		
Insulation coordination										
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250	400	630	250	400	630	250	400	630
Rated surge voltage	[kV]	4	4	4	4	4	4	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	300	-	300	300	-	300	300	-	300
Nominal current	[A]	18	-	10	18	-	10	15	-	10
Connection capacity AWG	AWG	26 - 12	-	26 - 12	26 - 12	-	26 - 12	26 - 12	-	26 - 12
Approval data (CSA)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-	-	-	-
General data										
Stripping length	[mm]	5			5			5		
Screw thread		M2,6			M2,6			M2,6		
Tightening torque	[Nm]	0.35 - 0.4			0.35 - 0.4			0.35 - 0.4		
Type of insulation material / insulation material group		PA / I			PA / I			PA / I		
Inflammability class according to UL 94		V0			V0			V0		
Drill hole diameter / pin dimensions	[mm]	1.3 / 1,0 mm			1.3 / 1,0 mm			1.3 / 1,0 mm		

No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00
5	20.00
6	25.00
7	30.00
8	35.00
9	40.00
10	45.00
11	50.00
12	55.00
13	60.00
14	65.00
15	70.00
16	75.00

Connection technology for building and LED applications
PT 1.5 series



PCB terminal block, connection direction horizontal to the PCB

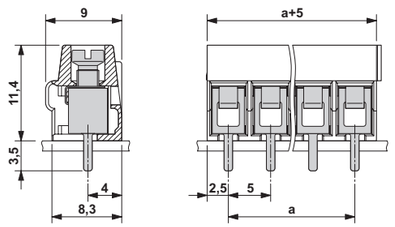


PCB terminal block, connection direction vertical to the PCB

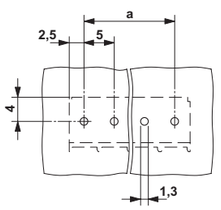


PCB terminal block with 45° angled connection

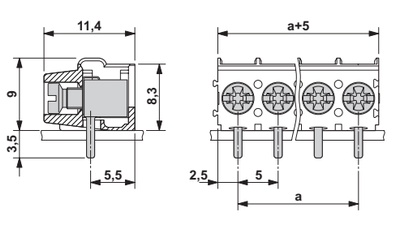
Dimensional drawing



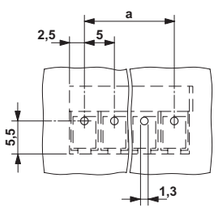
Drilling diagram



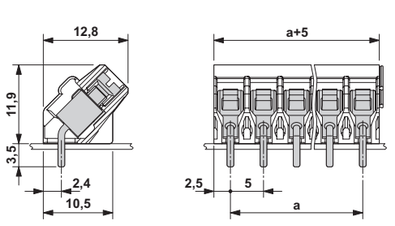
Dimensional drawing



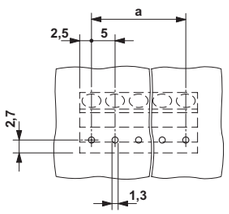
Drilling diagram



Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
PT 1,5/ 2-5,0-H	**1935161**	250
PT 1,5/ 3-5,0-H	**1935174**	250
PT 1,5/ 4-5,0-H	**1935187**	250
PT 1,5/ 5-5,0-H	**1935190**	100
PT 1,5/ 6-5,0-H	**1935200**	100
PT 1,5/ 7-5,0-H	**1935213**	100
PT 1,5/ 8-5,0-H	**1935226**	100
PT 1,5/ 9-5,0-H	**1935239**	100
PT 1,5/10-5,0-H	**1935242**	100
PT 1,5/11-5,0-H	**1935255**	50
PT 1,5/12-5,0-H	**1935268**	50
PT 1,5/13-5,0-H	**1935271**	50
PT 1,5/14-5,0-H	**1935284**	50
PT 1,5/15-5,0-H	**1935297**	50
PT 1,5/16-5,0-H	**1935307**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
PT 1,5/ 2-5,0-V	**1935310**	250
PT 1,5/ 3-5,0-V	**1935323**	250
PT 1,5/ 4-5,0-V	**1935336**	250
PT 1,5/ 5-5,0-V	**1935349**	100
PT 1,5/ 6-5,0-V	**1935352**	100
PT 1,5/ 7-5,0-V	**1935365**	100
PT 1,5/ 8-5,0-V	**1935378**	100
PT 1,5/ 9-5,0-V	**1935381**	100
PT 1,5/10-5,0-V	**1935394**	100
PT 1,5/11-5,0-V	**1935404**	50
PT 1,5/12-5,0-V	**1935417**	50
PT 1,5/13-5,0-V	**1935420**	50
PT 1,5/14-5,0-V	**1935433**	50
PT 1,5/15-5,0-V	**1935446**	50
PT 1,5/16-5,0-V	**1935459**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
PTA 1,5/ 2-5,0	**1988804**	250
PTA 1,5/ 3-5,0	**1988817**	250
PTA 1,5/ 4-5,0	**1988820**	250
PTA 1,5/ 5-5,0	**1988833**	100
PTA 1,5/ 6-5,0	**1988846**	100
PTA 1,5/ 7-5,0	**1988859**	100
PTA 1,5/ 8-5,0	**1988862**	100
PTA 1,5/ 9-5,0	**1988875**	100
PTA 1,5/10-5,0	**1988888**	100
PTA 1,5/11-5,0	**1988891**	50
PTA 1,5/12-5,0	**1988901**	50
PTA 1,5/13-5,0	**1988914**	50
PTA 1,5/14-5,0	**1988927**	50
PTA 1,5/15-5,0	**1988930**	50
PTA 1,5/16-5,0	**1988943**	50

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Connectors with a screw connection of up to 1.5 mm²



- High terminal block capacity thanks to rectangular terminal block space
- 3.5 mm and 5.0 mm pitches
- Highly flexible conductor protection for easy, repeated connecting
- Connectors with two integrated plug-in directions available, can be coded if desired
- Plus/minus screw
- Connectors with a rugged and reliable contact system
- Keying option
- Versions that can be aligned in the pitch are available on request

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products**
or starting on page 388.

[1]) Please observe the derating curves. Derating curves of further combination options on request.

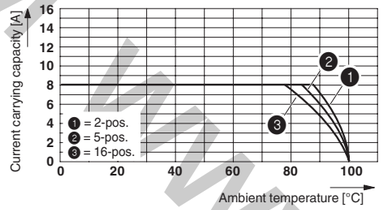
[2]) When using ferrules, max. 125 V are only achieved in combination with surge voltage category/pollution degree II/2.

Accessories

For all types	Type	Page
	Marker cards **SK 3,5/2,8**	797
	Screwdriver **SZS 0,4 x 2,5 Order No. 1205037**	
	Keying profile **CP-PT 1,5 Order No. 1985564**	38

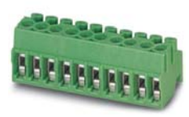
Representative derating curve

Type: PT 1,5/...PH-3,5
Tested in accordance with DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5



Technical data

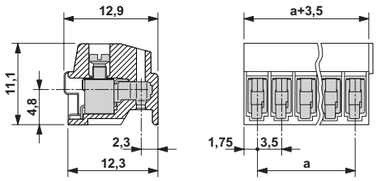
		PT 1,5/ ...-PH-3,5			PT 1,5/ ...-PVH-3,5		
Technical data in accordance to IEC / DIN VDE							
Rated current / conductor cross section	[A] / [mm²]	8[1]) / 1.5			8[1]) / 1.5		
Rated insulation voltage for pollution degree 2	[V]	200			200		
Pitch	[mm]	3.5			3.5		
Connection capacity							
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 1.5 / 0.2 - 1.5 / 26 - 16			0.2 - 1.5 / 0.2 - 1.5 / 26 - 16		
Stranded with ferrules without plastic sleeve	[mm²]	-			-		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 0.75[2])			0.25 - 0.75[2])		
Multi-conductor connection capacity (two conductors with the same cross section)							
Solid / stranded	[mm²]	0.2 - 0.34 / 0.2 - 0.5			0.2 - 0.34 / 0.2 - 0.5		
Stranded with ferrules without plastic sleeve	[mm²]	-			-		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	-			-		
Insulation coordination							
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	160	200	400	160	200	400
Rated surge voltage	[kV]	2.5	2.5	2.5	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	300	-	300	300	-	300
Nominal current	[A]	10	-	10	10	-	10
Connection capacity AWG	AWG	26 - 16	-	26 - 16	26 - 16	-	26 - 16
Approval data (CSA)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-
General data							
Stripping length	[mm]	5			5		
Screw thread		M2			M2		
Tightening torque	[Nm]	0.22 - 0.25			0.22 - 0.25		
Type of insulation material / insulation material group		PA / I			PA / I		
Inflammability class according to UL 94		V0			V0		



Plugs with screw connection, can be horizontally plugged onto PST 1,0/...-3,5 pin strips

cULus CCA

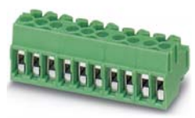
Dimensional drawing



No. of pos.	Dim. a [mm]
2	3.50
3	7.00
4	10.50
5	14.00
6	17.50
7	21.00
8	24.50
9	28.00
10	31.50
11	35.00
12	38.50
13	42.00
14	45.50
15	49.00
16	52.50

Ordering data

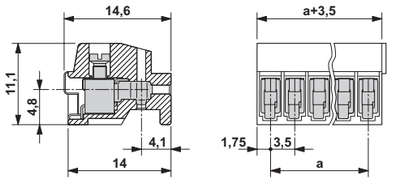
Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
PT 1,5/ 2-PH-3,5	**1984316**	250
PT 1,5/ 3-PH-3,5	**1984329**	250
PT 1,5/ 4-PH-3,5	**1984332**	250
PT 1,5/ 5-PH-3,5	**1984345**	100
PT 1,5/ 6-PH-3,5	**1984358**	100
PT 1,5/ 7-PH-3,5	**1984361**	100
PT 1,5/ 8-PH-3,5	**1984374**	100
PT 1,5/ 9-PH-3,5	**1984387**	100
PT 1,5/10-PH-3,5	**1984390**	100
PT 1,5/11-PH-3,5	**1984400**	50
PT 1,5/12-PH-3,5	**1984413**	50
PT 1,5/13-PH-3,5	**1984426**	50
PT 1,5/14-PH-3,5	**1984439**	50
PT 1,5/15-PH-3,5	**1984442**	50
PT 1,5/16-PH-3,5	**1984455**	50



Plugs with screw connection, can be horizontally and vertically plugged onto PST 1,0/...-3,5 pin strips

cULus CCA

Dimensional drawing



Ordering data

Type	Order No.	Pcs. / Pkt.
3.5 mm pitch, color: Green		
PT 1,5/ 2-PVH-3,5	**1984015**	250
PT 1,5/ 3-PVH-3,5	**1984028**	250
PT 1,5/ 4-PVH-3,5	**1984031**	250
PT 1,5/ 5-PVH-3,5	**1984044**	100
PT 1,5/ 6-PVH-3,5	**1984057**	100
PT 1,5/ 7-PVH-3,5	**1984060**	100
PT 1,5/ 8-PVH-3,5	**1984073**	100
PT 1,5/ 9-PVH-3,5	**1984086**	100
PT 1,5/10-PVH-3,5	**1984099**	100
PT 1,5/11-PVH-3,5	**1984109**	50
PT 1,5/12-PVH-3,5	**1984112**	50
PT 1,5/13-PVH-3,5	**1984125**	50
PT 1,5/14-PVH-3,5	**1984138**	50
PT 1,5/15-PVH-3,5	**1984141**	50
PT 1,5/16-PVH-3,5	**1984154**	50

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Connectors with a screw connection up to 2.5 mm²



- High terminal block capacity thanks to rectangular terminal block space
- 5.0 mm pitch
- Tension sleeve principle/Highly flexible conductor protection
- Connectors can be plugged in horizontally
- Connectors with a rugged and reliable contact system
- PH version in monoblock design
- PT 1,5/...PVH-5,0 is also available as a version that can be aligned

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products**
or starting on page 388.

Recommended assembly available if required.

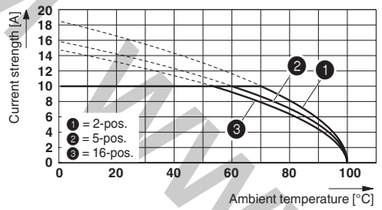
[1]) When using ferrules, 250 V are only achieved in combination with surge voltage category/pollution degree II/2.

Accessories

For all types	Type	Page
	Screwdriver **SZS 0,6 x 3,5** **Order No. 1205053**	
Only for PT 1,5/...-PH-5,0		
	Keying profile CP-PTDA **Order No. 1731361**	38
Only for PT 1,5/...-PVH-5,0		
	Keying profile **CP-PT 1,5**	38

Representative derating curve

Type: PT 1,5/...-PH-5,0 CLIP with PST 1,3/...-5,0
Derating curve, determined according to DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 1.5 mm²
Reduction factor = 0.8
Number of positions: See diagram



Technical data

		PT 1,5/ ...-PH-5,0			PT 1,5/ ...-PH-5,0 CLIP			PT 1,5/ ...-PVH-5,0		
Technical data in accordance to IEC / DIN VDE										
Rated current / conductor cross section	[A] / [mm²]	10 / 2.5			10 / 1.5			12 / 2.5		
Rated insulation voltage for pollution degree 2	[V]	400			400			320		
Pitch	[mm]	5			5			5		
Connection capacity										
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 2.5 / 0.2 - 2.5 / 26 - 12			0.2 - 1.5 / 0.2 - 1.5 / 26 - 14			0.2 - 2.5 / 0.2 - 2.5 / 26 - 14		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 1			0.25 - 1			0.25 - 1.5[1])		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 1			0.25 - 1			0.25 - 1.5[1])		
Multi-conductor connection capacity (two conductors with the same cross section)										
Solid / stranded	[mm²]	- / -			- / -			0.2 - 0.75 / 0.2 - 0.75		
Stranded with ferrules without plastic sleeve	[mm²]	-			-			0.25 - 0.34[1])		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	-			-			0.5 - 0.75[1])		
Insulation coordination										
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250	400	630	250	400	630	250	320	630
Rated surge voltage	[kV]	4	4	4	4	4	4	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	300	-	300	300	-	300	300	-	300
Nominal current	[A]	10	-	10	10	-	10	15	-	10
Connection capacity AWG	AWG	28 - 14	-	28 - 14	28 - 14	-	28 - 14	26 - 12	-	26 - 12
Approval data (CSA)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	300	-	300	300	-	300	-	-	-
Nominal current	[A]	5	-	5	5	-	5	-	-	-
Connection capacity AWG	AWG	26 - 14	-	26 - 14	26 - 14	-	26 - 14	-	-	-
General data										
Stripping length	[mm]	6			6			5		
Tightening torque	[Nm]	0.35 - 0.4			0.35 - 0.4			0.35 - 0.4		
Type of insulation material / insulation material group		PA / I			PA / I			PA / I		
Inflammability class according to UL 94		V0			V0			V0		

No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00
5	20.00
6	25.00
7	30.00
8	35.00
9	40.00
10	45.00
11	50.00
12	55.00
13	60.00
14	65.00
15	70.00
16	75.00

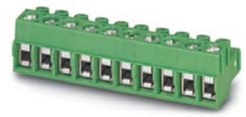
Connection technology for building and LED applications
PT 1.5 series



Plugs with screw connection, can be horizontally plugged onto PST 1,3/...-5,0 pin strips

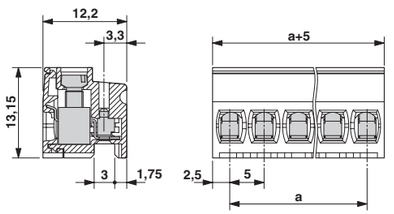


Plugs for “housing assembly”, can be plugged onto PST 1,3/...-5,0 pin strips

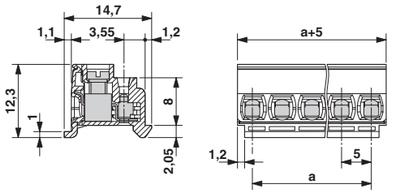


Plugs with screw connection, can be horizontally and vertically plugged onto PST 1,3/...-5,0 pin strips

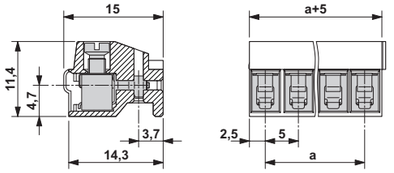
Dimensional drawing



Dimensional drawing



Dimensional drawing



Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
PT 1,5/ 2-PH-5,0	**1755583**	250
PT 1,5/ 3-PH-5,0	**1755596**	250
PT 1,5/ 4-PH-5,0	**1755606**	250
PT 1,5/ 5-PH-5,0	**1755619**	100
PT 1,5/ 6-PH-5,0	**1755622**	100
PT 1,5/ 7-PH-5,0	**1755635**	100
PT 1,5/ 8-PH-5,0	**1755648**	100
PT 1,5/ 9-PH-5,0	**1755651**	100
PT 1,5/10-PH-5,0	**1755664**	100
PT 1,5/11-PH-5,0	**1755677**	50
PT 1,5/12-PH-5,0	**1755680**	50
PT 1,5/13-PH-5,0	**1755693**	50
PT 1,5/14-PH-5,0	**1755703**	50
PT 1,5/15-PH-5,0	**1755716**	50
PT 1,5/16-PH-5,0	**1755729**	50

Ordering data

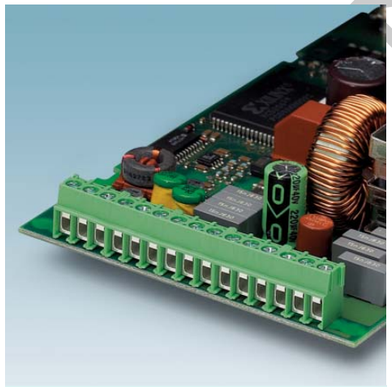
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
PT 1,5/ 2-PH-5,0 CLIP	**1755732**	250
PT 1,5/ 3-PH-5,0 CLIP	**1755745**	250
PT 1,5/ 4-PH-5,0 CLIP	**1755758**	250
PT 1,5/ 5-PH-5,0 CLIP	**1755761**	100
PT 1,5/ 6-PH-5,0 CLIP	**1755774**	100
PT 1,5/ 7-PH-5,0 CLIP	**1755787**	100
PT 1,5/ 8-PH-5,0 CLIP	**1755790**	100
PT 1,5/ 9-PH-5,0 CLIP	**1755800**	100
PT 1,5/10-PH-5,0 CLIP	**1755813**	100
PT 1,5/11-PH-5,0 CLIP	**1755826**	50
PT 1,5/12-PH-5,0 CLIP	**1755839**	50
PT 1,5/13-PH-5,0 CLIP	**1755842**	50
PT 1,5/14-PH-5,0 CLIP	**1755855**	50
PT 1,5/15-PH-5,0 CLIP	**1755868**	50
PT 1,5/16-PH-5,0 CLIP	**1755871**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
PT 1,5/ 2-PVH-5,0	**1934861**	250
PT 1,5/ 3-PVH-5,0	**1934874**	250
PT 1,5/ 4-PVH-5,0	**1934887**	250
PT 1,5/ 5-PVH-5,0	**1934890**	100
PT 1,5/ 6-PVH-5,0	**1934900**	100
PT 1,5/ 7-PVH-5,0	**1934913**	100
PT 1,5/ 8-PVH-5,0	**1934926**	100
PT 1,5/ 9-PVH-5,0	**1934939**	100
PT 1,5/10-PVH-5,0	**1934942**	100
PT 1,5/11-PVH-5,0	**1934955**	50
PT 1,5/12-PVH-5,0	**1934968**	50
PT 1,5/13-PVH-5,0	**1934971**	50
PT 1,5/14-PVH-5,0	**1934984**	50
PT 1,5/15-PVH-5,0	**1934997**	50
PT 1,5/16-PVH-5,0	**1935006**	50

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PCB terminal blocks with a screw connection up to 4 mm²



- High terminal block capacity thanks to rectangular terminal block space
- 5.0 mm pitch
- Highly flexible conductor protection for easy, repeated connecting
- Rugged design for larger cross sections
- Plus/minus screw

Notes:

[1]) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.

[2]) When using ferrules, 250 V are only achieved in combination with surge voltage category/pollution degree II/2.

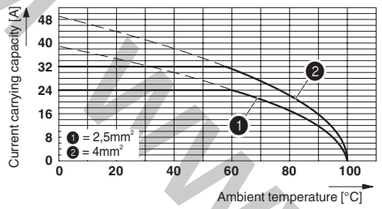
[3]) Use a hole diameter of 1.3 - 1.6 mm

Accessories

For all types	Type	Page
	Marker cards **SK 5/3,8**	798
	Screwdriver **SZS 0,6 x 3,5 Order No. 1205053**	

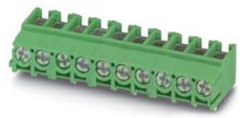
Current carrying capacity curve

Type: PT 2,5/5-5,0-H
Test following DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5



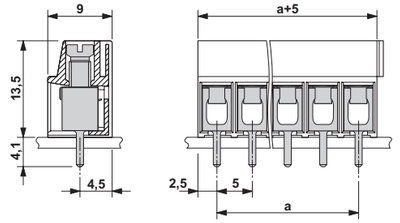


PCB terminal block, connection direction horizontal to the PCB

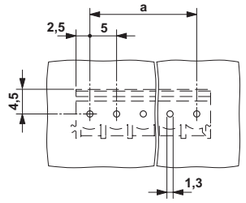


PCB terminal block, connection direction vertical to the PCB

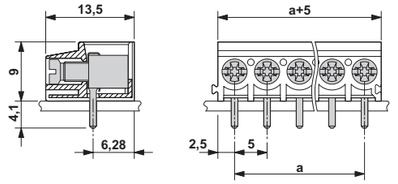
Dimensional drawing



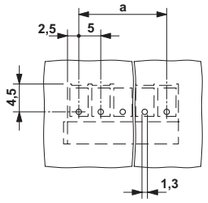
Drilling diagram



Dimensional drawing



Drilling diagram



Technical data

		PT 2,5/ ...-5,0-H			PT 2,5/ ...-5,0-V		
Technical data in accordance to IEC / DIN VDE							
Rated current / conductor cross section	[A] / [mm²]	32[1]) / 4			32[1]) / 4		
Rated insulation voltage for pollution degree 2	[V]	400			400		
Pitch	[mm]	5			5		
Connection capacity							
Solid / stranded	[mm²] / [mm²] / AWG	0.5 - 4 / 0.5 - 4 / 20 - 10			0.5 - 4 / 0.5 - 4 / 20 - 10		
Stranded with ferrules without plastic sleeve	[mm²]	0.5 - 2.5[2])			0.5 - 2.5[2])		
Stranded with ferrules with plastic sleeve	[mm²]	0.5 - 2.5[2])			0.5 - 2.5[2])		
Multi-conductor connection capacity (two conductors with the same cross section)							
Solid / stranded	[mm²]	0.5 - 1.5 / 0.5 - 1.5			0.5 - 1.5 / 0.5 - 1.5		
Stranded with ferrules without plastic sleeve	[mm²]	0.5 - 0.75[2])			0.5 - 0.75[2])		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 1.5[2])			0.5 - 1.5[2])		
Insulation coordination							
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250	400	630	250	400	630
Rated surge voltage	[kV]	4	4	4	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	300	-	300	300	-	300
Nominal current	[A]	20	-	10	20	-	10
Connection capacity AWG	AWG	20 - 12	-	20 - 12	20 - 12	-	20 - 12
Approval data (CSA)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-
General data							
Stripping length	[mm]	6.5			6.5		
Screw thread		M3			M3		
Tightening torque	[Nm]	0.45 - 0.5			0.45 - 0.5		
Type of insulation material / insulation material group		PA / I			PA / I		
Inflammability class according to UL 94		V0			V0		
Drill hole diameter / pin dimensions	[mm]	1.3[3]) / 1,0 mm			1.3[3]) / 1,0 mm		

No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00
5	20.00
6	25.00
7	30.00
8	35.00
9	40.00
10	45.00
11	50.00
12	55.00
13	60.00
14	65.00
15	70.00
16	75.00

Ordering data

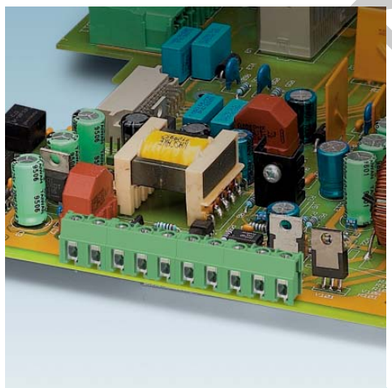
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
PT 2,5/ 2-5,0-H	**1935776**	250
PT 2,5/ 3-5,0-H	**1935789**	250
PT 2,5/ 4-5,0-H	**1935792**	250
PT 2,5/ 5-5,0-H	**1935802**	100
PT 2,5/ 6-5,0-H	**1935815**	100
PT 2,5/ 7-5,0-H	**1935828**	100
PT 2,5/ 8-5,0-H	**1935831**	100
PT 2,5/ 9-5,0-H	**1935844**	100
PT 2,5/10-5,0-H	**1935857**	100
PT 2,5/11-5,0-H	**1935860**	50
PT 2,5/12-5,0-H	**1935873**	50
PT 2,5/13-5,0-H	**1935886**	50
PT 2,5/14-5,0-H	**1935899**	50
PT 2,5/15-5,0-H	**1935909**	50
PT 2,5/16-5,0-H	**1935912**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
PT 2,5/ 2-5,0-V	**1987724**	250
PT 2,5/ 3-5,0-V	**1987737**	250
PT 2,5/ 4-5,0-V	**1987740**	250
PT 2,5/ 5-5,0-V	**1987753**	100
PT 2,5/ 6-5,0-V	**1987766**	100
PT 2,5/ 7-5,0-V	**1987779**	100
PT 2,5/ 8-5,0-V	**1987782**	100
PT 2,5/ 9-5,0-V	**1987795**	100
PT 2,5/10-5,0-V	**1987805**	100
PT 2,5/11-5,0-V	**1987818**	50
PT 2,5/12-5,0-V	**1987821**	50
PT 2,5/13-5,0-V	**1987834**	50
PT 2,5/14-5,0-V	**1987847**	50
PT 2,5/15-5,0-V	**1987850**	50
PT 2,5/16-5,0-V	**1987863**	50

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PCB terminal blocks with a screw connection up to 4 mm²



- High terminal block capacity thanks to rectangular terminal block space
- 7.5 mm pitch
- Highly flexible conductor protection for easy, repeated connecting
- Rugged design for larger cross sections and higher voltages
- Plus/minus screw

Notes:

[1]) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.

[2]) When using ferrules, 500 V are only achieved in combination with surge voltage category/pollution degree II/2.

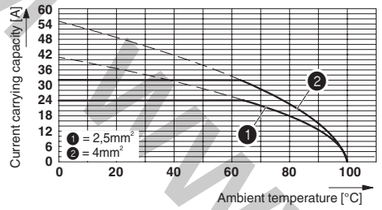
[3]) Use a hole diameter of 1.3 - 1.6 mm

Accessories

For all types	Type	Page
	Marker cards **SK 7,5/3,8**	799
	Screwdriver **SZS 0,6 x 3,5 Order No. 1205053**	

Current carrying capacity curve

Type: PT 2,5/5-7,5-H
Test following DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5



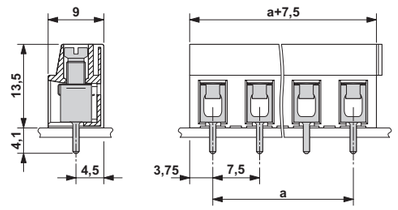


PCB terminal block, connection direction horizontal to the PCB

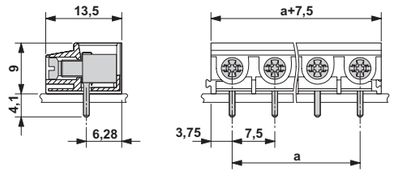


PCB terminal block, connection direction vertical to the PCB

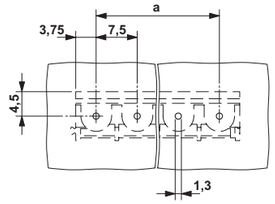
Dimensional drawing



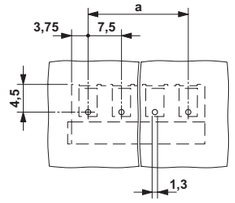
Dimensional drawing



Drilling diagram



Drilling diagram



No. of pos.	Dim. a [mm]
2	7.50
3	15.00
4	22.50
5	30.00
6	37.50
7	45.00
8	52.50
9	60.00
10	67.50
11	75.00
12	82.50

Technical data

		PT 2,5/ ...-7,5-H			PT 2,5/ ...-7,5-V		
Technical data in accordance to IEC / DIN VDE							
Rated current / conductor cross section	[A] / [mm²]	32[1]) / 4			32[1]) / 4		
Rated insulation voltage for pollution degree 2	[V]	800			800		
Pitch	[mm]	7.5			7.5		
Connection capacity							
Solid / stranded	[mm²] / [mm²] / AWG	0.5 - 4 / 0.5 - 4 / 20 - 10			0.5 - 4 / 0.5 - 4 / 20 - 10		
Stranded with ferrules without plastic sleeve	[mm²]	0.5 - 2.5[2])			0.5 - 2.5[2])		
Stranded with ferrules with plastic sleeve	[mm²]	0.5 - 2.5[2])			0.5 - 2.5[2])		
Multi-conductor connection capacity (two conductors with the same cross section)							
Solid / stranded	[mm²]	0.5 - 1.5 / 0.5 - 1.5			0.5 - 1.5 / 0.5 - 1.5		
Stranded with ferrules without plastic sleeve	[mm²]	0.5 - 0.75[2])			0.5 - 0.75[2])		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 1.5[2])			0.5 - 1.5[2])		
Insulation coordination							
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	500	800	1000	500	800	1000
Rated surge voltage	[kV]	6	6	6	6	6	6
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	300	150	300	300	150	300
Nominal current	[A]	20	20	10	20	20	10
Connection capacity AWG	AWG	20 - 12	20 - 12	20 - 12	20 - 12	20 - 12	20 - 12
Approval data (CSA)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-
General data							
Stripping length	[mm]	6.5			6.5		
Screw thread		M3			M3		
Tightening torque	[Nm]	0.45 - 0.5			0.45 - 0.5		
Type of insulation material / insulation material group		PA / I			PA / I		
Inflammability class according to UL 94		V0			V0		
Drill hole diameter / pin dimensions	[mm]	1.3[3]) / 1,0 mm			1.3[3]) / 1,0 mm		

Ordering data

Type	Order No.	Pcs. / Pkt.
7.5 mm pitch, color: Green		
PT 2,5/ 2-7,5-H	**1988105**	250
PT 2,5/ 3-7,5-H	**1988118**	250
PT 2,5/ 4-7,5-H	**1988121**	250
PT 2,5/ 5-7,5-H	**1988134**	100
PT 2,5/ 6-7,5-H	**1988147**	100
PT 2,5/ 7-7,5-H	**1988150**	100
PT 2,5/ 8-7,5-H	**1988163**	100
PT 2,5/ 9-7,5-H	**1988176**	100
PT 2,5/10-7,5-H	**1988189**	100
PT 2,5/11-7,5-H	**1988192**	50
PT 2,5/12-7,5-H	**1988202**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
7.5 mm pitch, color: Green		
PT 2,5/ 2-7,5-V	**1987957**	250
PT 2,5/ 3-7,5-V	**1987960**	250
PT 2,5/ 4-7,5-V	**1987973**	250
PT 2,5/ 5-7,5-V	**1987986**	100
PT 2,5/ 6-7,5-V	**1987999**	100
PT 2,5/ 7-7,5-V	**1988008**	100
PT 2,5/ 8-7,5-V	**1988011**	100
PT 2,5/ 9-7,5-V	**1988024**	100
PT 2,5/10-7,5-V	**1988037**	100
PT 2,5/11-7,5-V	**1988040**	50
PT 2,5/12-7,5-V	**1988053**	50

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Multi-plug-in system with a screw connection up to 4 mm²



- Plug-in system with five plug-in options in all
- 5.0 mm pitch
- Highly flexible conductor protection for easy, repeated connecting
- High stability thanks to the L-shaped base strips
- Reliable contact system with high current carrying capacity
- Patented coding available if desired
- Compatible with standard pin strips PST 1,3...

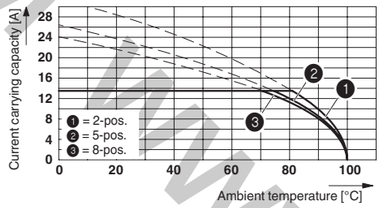
Notes:
In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
COMBICON select You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 388.
Larger numbers of positions on request.
1) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.

Accessories

For all types	Type	Page
	Keying profile CP-PT 2,5 **Order No.** **1733398**	38
	Screwdriver **SZS 0,6 x 3,5** **Order No.** **1205053**	

Representative derating curve

Type: PT 2,5/...-PVH-5,0 with PST 1,3...-LH-5,0
Derating curve determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Reduction factor = 0.8
Conductor cross section: 4 mm²



Technical data

		PT 2,5/ ...-PVH-5,0			PST 1,3/ ...-LH-5,0			PST 1,3/ ...-LV-5,0		
Technical data in accordance to IEC / DIN VDE										
Rated current / conductor cross section	[A] / [mm²]	13.5[1]) / 4			13.5			13.5		
Rated insulation voltage for pollution degree 2	[V]	320			400			400		
Pitch	[mm]	5			5			5		
Connection capacity										
Solid / stranded	[mm²] / [mm²] / AWG	0.5 - 4 / 0.5 - 4 / 20 - 12			- / - / -			- / - / -		
Stranded with ferrules without plastic sleeve	[mm²]	0.5 - 2.5			-			-		
Stranded with ferrules with plastic sleeve	[mm²]	0.5 - 2.5			-			-		
Multi-conductor connection capacity (two conductors with the same cross section)										
Solid / stranded	[mm²]	0.5 - 1.5 / 0.5 - 1.5			- / -			- / -		
Stranded with ferrules without plastic sleeve	[mm²]	0.5 - 0.75			-			-		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 1.5			-			-		
Insulation coordination										
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250	320	630	250	400	400	250	400	400
Rated surge voltage	[kV]	4	4	4	4	4	4	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	300	-	300	300	-	300	300	-	300
Nominal current	[A]	10	-	10	10	-	10	10	-	10
Connection capacity AWG	AWG	26 - 12	26 - 12	26 - 12	-	-	-	-	-	-
Approval data (CSA)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-	-	-	-
General data										
Stripping length	[mm]	8			-			-		
Screw thread		M3			-			-		
Tightening torque	[Nm]	0.45 - 0.5			-			-		
Type of insulation material / insulation material group		PA / I			PA / IIIb			PA / IIIb		
Inflammability class according to UL 94		V0			V0			V0		

No. of pos.	Dim. a [mm]
2	5.00
3	10.00
4	15.00
5	20.00
6	25.00
7	30.00
8	35.00



Plugs with screw connection, can be plugged in horizontally and vertically

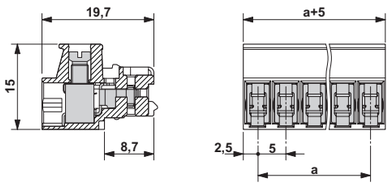


Pin strip for PT 2,5 connector, Plug-in direction parallel to the PCB

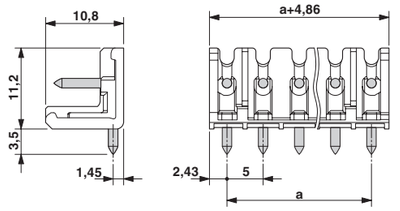


Pin strip for PT 2,5 plug, Plug-in direction vertical to the PCB

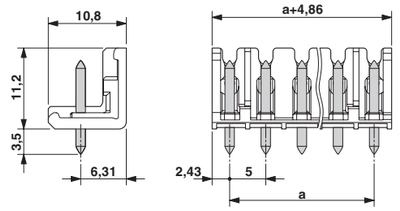
Dimensional drawing



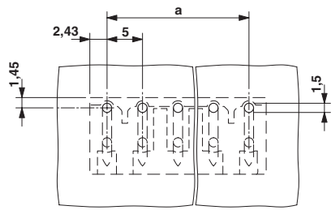
Dimensional drawing



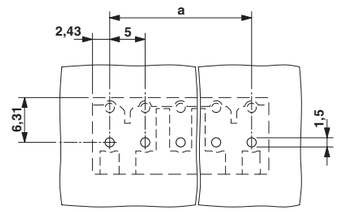
Dimensional drawing



Drilling diagram



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
PT 2,5/ 2-PVH-5,0	**1704165**	250
PT 2,5/ 3-PVH-5,0	**1704178**	250
PT 2,5/ 4-PVH-5,0	**1704181**	250
PT 2,5/ 5-PVH-5,0	**1704194**	100
PT 2,5/ 6-PVH-5,0	**1704204**	100
PT 2,5/ 7-PVH-5,0	**1704217**	100
PT 2,5/ 8-PVH-5,0	**1704220**	100

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 5.0 mm, color: Black		
PST 1,3/ 2-LH-5,0	**1704275**	250
PST 1,3/ 3-LH-5,0	**1704291**	250
PST 1,3/ 4-LH-5,0	**1704327**	250
PST 1,3/ 5-LH-5,0	**1704356**	100
PST 1,3/ 6-LH-5,0	**1704369**	100
PST 1,3/ 7-LH-5,0	**1704372**	100
PST 1,3/ 8-LH-5,0	**1704385**	100

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 5.0 mm, color: Black		
PST 1,3/ 2-LV-5,0	**1704437**	250
PST 1,3/ 3-LV-5,0	**1704453**	250
PST 1,3/ 4-LV-5,0	**1704482**	250
PST 1,3/ 5-LV-5,0	**1704518**	100
PST 1,3/ 6-LV-5,0	**1704521**	100
PST 1,3/ 7-LV-5,0	**1704534**	100
PST 1,3/ 8-LV-5,0	**1704547**	100

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Pin strips for COMBICON compact connector



- Reflow solderable pin strip, optimized for COMBICON compact connectors
- Pitch 3.5 mm
- Pin geometry caring on the plug
- Various pin lengths and pin geometries available on request
- Pin strip available in machine-compatible packaging (tube magazine or tape)
- Pin strip with a pad for the suction pipette pushed over it for optional taped packaging

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products**
or starting on page 388.

These items are also available in larger unit packs.

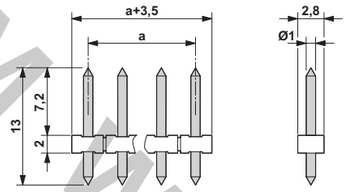
Pick and place pads for taped THR articles usually protrude beyond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of tape reels and place pads can be found online at **www.phoenixcontact.net/products**.



**Pin strip,
plug-in direction vertical to the PCB**

CCA

Dimensional drawing



Drilling diagram

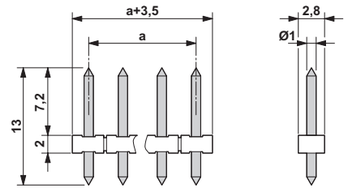




Taped pin strip with 3.5 mm pitch

CCA

Dimensional drawing

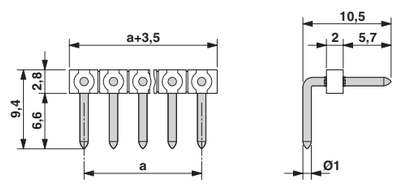


Drilling diagram

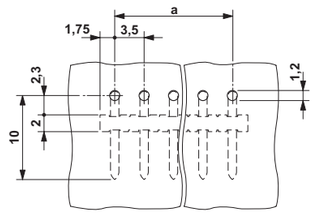


**Male connector,
plug-in direction horizontal to the PCB**

Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current	[A]	8		
Rated insulation voltage for pollution degree 2	[V]	250		
Pitch	[mm]	3.5		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	160	250	250
Rated surge voltage	[kV]	2.5	2.5	2.5
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	-	-
Nominal current	[A]	10	-	-
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		PA / IIIa		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.2 / 1 mm		

Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		Pitch 3.5 mm, color: Black		
2	3.50	**PST 1,0/ 2-3,5**	**1945096**	50
3	7.00	**PST 1,0/ 3-3,5**	**1945106**	50
4	10.50	**PST 1,0/ 4-3,5**	**1945119**	50
5	14.00	**PST 1,0/ 5-3,5**	**1945122**	50
6	17.50	**PST 1,0/ 6-3,5**	**1945135**	50
7	21.00	**PST 1,0/ 7-3,5**	**1945148**	50
8	24.50	**PST 1,0/ 8-3,5**	**1945151**	50
9	28.00	**PST 1,0/ 9-3,5**	**1945164**	50
10	31.50	**PST 1,0/10-3,5**	**1945177**	50
11	35.00	**PST 1,0/11-3,5**	**1945180**	50
12	38.50	**PST 1,0/12-3,5**	**1945193**	50
13	42.00	**PST 1,0/13-3,5**	**1945203**	50
14	45.50	**PST 1,0/14-3,5**	**1945216**	50
15	49.00	**PST 1,0/15-3,5**	**1945229**	50
16	52.50	**PST 1,0/16-3,5**	**1945232**	50

Ordering data

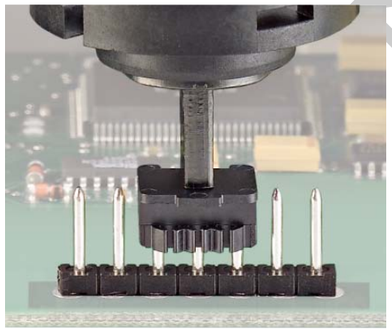
Type	Order No.	Pcs. / Pkt.
Pitch 3.5 mm, color: Black		
PST 1,0/ 2-3,5 R24	**1720233**	330
PST 1,0/ 3-3,5 R24	**1720246**	330
PST 1,0/ 4-3,5 R24	**1995525**	330
PST 1,0/ 5-3,5 R56	**1720259**	250
PST 1,0/ 6-3,5 R56	**1720262**	250
PST 1,0/ 7-3,5 R56	**1995538**	250
PST 1,0/ 8-3,5 R56	**1720275**	250
PST 1,0/ 9-3,5 R56	**1995541**	250
PST 1,0/10-3,5 R56	**1720288**	250
PST 1,0/11-3,5 R56	**1720291**	250

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 3.5 mm, color: Black		
PST 1,0/ 2-H-3,5	**1737019**	50
PST 1,0/ 3-H-3,5	**1737022**	50
PST 1,0/ 4-H-3,5	**1737035**	50
PST 1,0/ 5-H-3,5	**1737048**	50
PST 1,0/ 6-H-3,5	**1737051**	50
PST 1,0/ 7-H-3,5	**1737064**	50
PST 1,0/ 8-H-3,5	**1737077**	50
PST 1,0/ 9-H-3,5	**1737080**	50
PST 1,0/10-H-3,5	**1737093**	50
PST 1,0/11-H-3,5	**1737103**	50
PST 1,0/12-H-3,5	**1737116**	50
PST 1,0/13-H-3,5	**1737129**	50
PST 1,0/14-H-3,5	**1737132**	50
PST 1,0/15-H-3,5	**1737145**	50
PST 1,0/16-H-3,5	**1737158**	50

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Pin strips for COMBICON compact connector



- Reflow solderable pin strip, optimized for COMBICON compact connectors
- 5.0 mm pitch
- Pin geometry caring on the plug
- Various pin lengths and pin geometries available on request
- Pin strip available in machine-compatible packaging (tube magazine or tape)
- Pin strip with a pad for the suction pipette pushed over it for optional taped packaging

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
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Pick and place pads for taped THR articles usually protrude beyond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of tape reels and place pads can be found online at **www.phoenixcontact.net/products**.



**Pin strip,
plug-in direction vertical to the PCB**



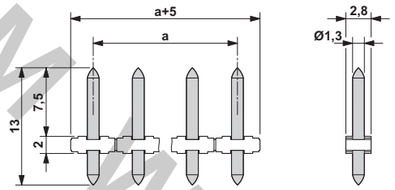
Taped pin strip with 5.0 mm pitch



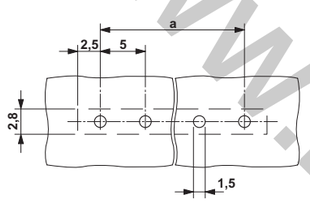
**Male connector,
plug-in direction horizontal to the PCB**

CCA

Dimensional drawing

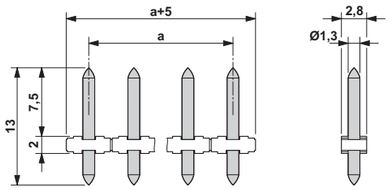


Drilling diagram

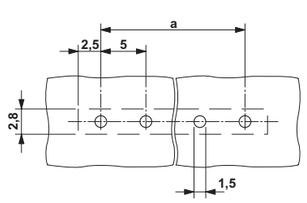


CCA

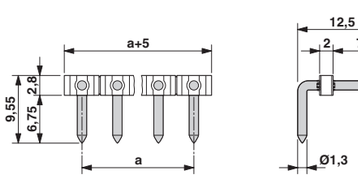
Dimensional drawing



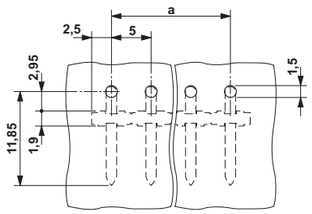
Drilling diagram



Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current	[A]	12		
Rated insulation voltage for pollution degree 2	[V]	320		
Pitch	[mm]	5		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250	320	400
Rated surge voltage	[kV]	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	16	-	10
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	5	-	5
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		PA / IIIa		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.5 / 1,3 mm		

Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		Pitch 5.0 mm, color: Black		
2	5.00	**PST 1,3/ 2-5,0**	**1933189**	50
3	10.00	**PST 1,3/ 3-5,0**	**1933192**	50
4	15.00	**PST 1,3/ 4-5,0**	**1933202**	50
5	20.00	**PST 1,3/ 5-5,0**	**1933215**	50
6	25.00	**PST 1,3/ 6-5,0**	**1933228**	50
7	30.00	**PST 1,3/ 7-5,0**	**1933231**	50
8	35.00	**PST 1,3/ 8-5,0**	**1933244**	50
9	40.00	**PST 1,3/ 9-5,0**	**1933257**	50
10	45.00	**PST 1,3/10-5,0**	**1933260**	50
11	50.00	**PST 1,3/11-5,0**	**1933273**	50
12	55.00	**PST 1,3/12-5,0**	**1933286**	50
13	60.00	**PST 1,3/13-5,0**	**1933299**	50
14	65.00	**PST 1,3/14-5,0**	**1933309**	50
15	70.00	**PST 1,3/15-5,0**	**1933312**	50
16	75.00	**PST 1,3/16-5,0**	**1933325**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 5.0 mm, color: Black		
PST 1,3/ 2-5,0 R24	**1720301**	330
PST 1,3/ 3-5,0 R24	**1713169**	330
PST 1,3/ 4-5,0 R56	**1720314**	250
PST 1,3/ 5-5,0 R56	**1720327**	250
PST 1,3/ 6-5,0 R56	**1720330**	250
PST 1,3/ 7-5,0 R56	**1720343**	250
PST 1,3/ 8-5,0 R56	**1720356**	250

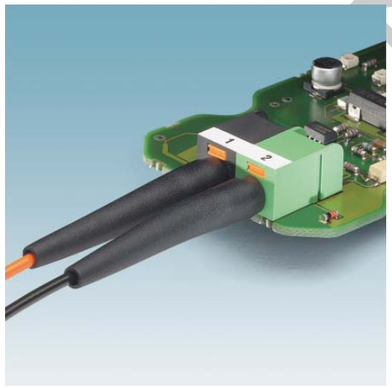
Ordering data

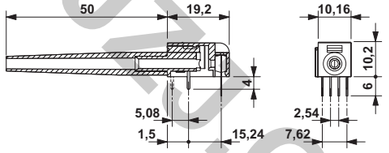
Type	Order No.	Pcs. / Pkt.
PST 1,3/ 2-H-5,0	**1995635**	250
PST 1,3/ 3-H-5,0	**1705478**	250
PST 1,3/ 4-H-5,0	**1705481**	100
PST 1,3/ 5-H-5,0	**1705494**	100
PST 1,3/ 6-H-5,0	**1705504**	100
PST 1,3/ 7-H-5,0	**1717301**	100
PST 1,3/ 8-H-5,0	**1717314**	100
PST 1,3/ 9-H-5,0	**1717327**	100
PST 1,3/10-H-5,0	**1717330**	100
PST 1,3/11-H-5,0	**1717343**	50
PST 1,3/12-H-5,0	**1717356**	50
PST 1,3/13-H-5,0	**1717369**	50
PST 1,3/14-H-5,0	**1717372**	50
PST 1,3/15-H-5,0	**1717385**	50
PST 1,3/16-H-5,0	**1717398**	50

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Connection technology for building and LED applications
FOPT series

FOPT 2,2-T/R FO fast connect PCB terminal blocks





- Integrated transmit or receive diode
- Connection without fiber pretreatment, easily cut to length with fiber cutter IBS RL FOC
- Increased operating convenience thanks to the direct plug-in method with release button
- Stability through additional strain relief
- Bend protection sleeve included in delivery

Notes:

If the coupled optical power is ≥ -21.6 dBM, data output switches to LOW (inversion of optical data signal).



FO fast connection for PCB term. blocks with receive diode

Technical data	
Technical data	
Data rate	5.00 Mbps
Transmission length	to 50 m
Ambient temperature (operation)	0 °C ... 70 °C
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Transmitter	
Optical transmission capacity (at 60 mA and 25°C)	-
Forward current	-
Forward voltage (with 60 mA forward current)	-
Optical peak wavelength (0 to 70°C)	-
Receiver	
Optical receiver sensitivity (0 to 70°C)	-21.60 dBm
Optical overdrive threshold (0 to 70°C)	-2 dBm
Supply voltage	4.75 V DC ... 5.25 V DC
Connection capacity	
Polymer fiber (in acc. with IEC 60 793-2 type A4a)	980/1000 µm
Diameter of outer sheath	2.2 mm ±0.07 mm

Ordering data			
FO PCB terminal block with receive diode Color: Black	**FOPT 2,2-R**	**1907924**	10
FO PCB terminal block with transmit diode Color: Green			

Accessories			
Bend protection sleeve -	**KST-POF**	**1933011**	10
Fiber cutter, for quick and easy mounting of fiber optic cables with the Ruggedline connector -	**IBS RL FOC**	**2725147**	1



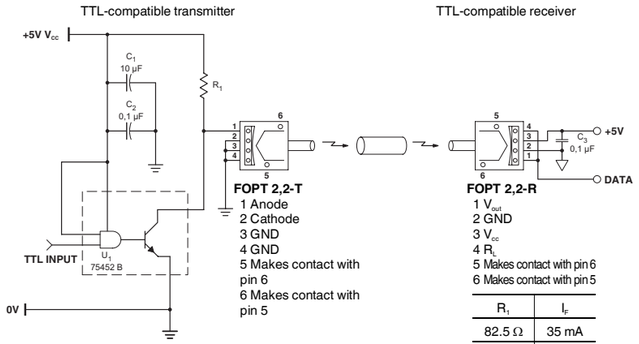
FO fast connection for PCB term. blocks with transm. diode

Technical data	
Technical data	
Data rate	5.00 Mbps
Transmission length	to 50 m
Ambient temperature (operation)	0 °C ... 70 °C
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Transmitter	
Optical transmission capacity (at 60 mA and 25°C)	-5.3 dBm ... -0.5 dBm
Forward current	max. 60 mA
Forward voltage (with 60 mA forward current)	1.8 V
Optical peak wavelength (0 to 70°C)	≤ 660 mm
Receiver	
Optical receiver sensitivity (0 to 70°C)	-
Optical overdrive threshold (0 to 70°C)	-
Supply voltage	-
Connection capacity	
Polymer fiber (in acc. with IEC 60 793-2 type A4a)	980/1000 µm
Diameter of outer sheath	2.2 mm ±0.07 mm

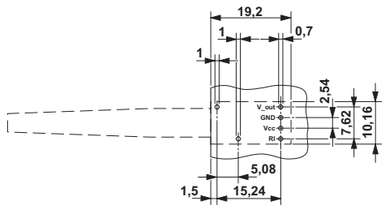
Ordering data			
FOPT 2,2-T		**1907911**	10

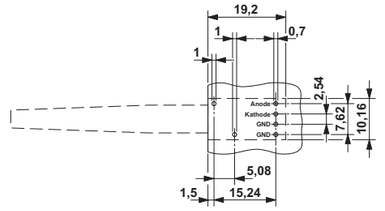
Accessories			
KST-POF		**1933011**	10
IBS RL FOC		**2725147**	1

Recommended wiring

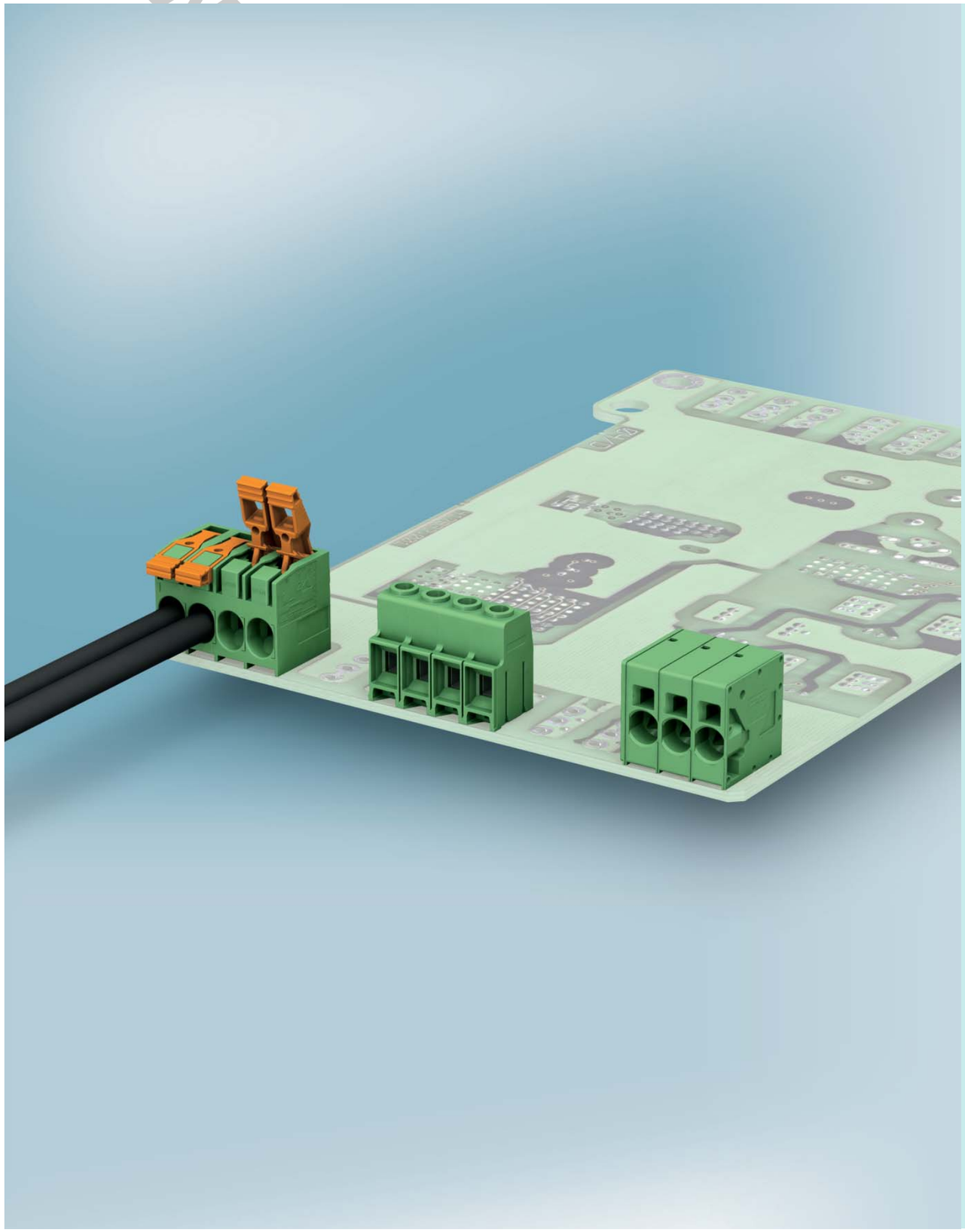


R_1	I_F
82.5 Ω	35 mA
47 Ω	60 mA





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PCB terminal blocks for power electronics with pitch from 6.35 to 15.0 mm

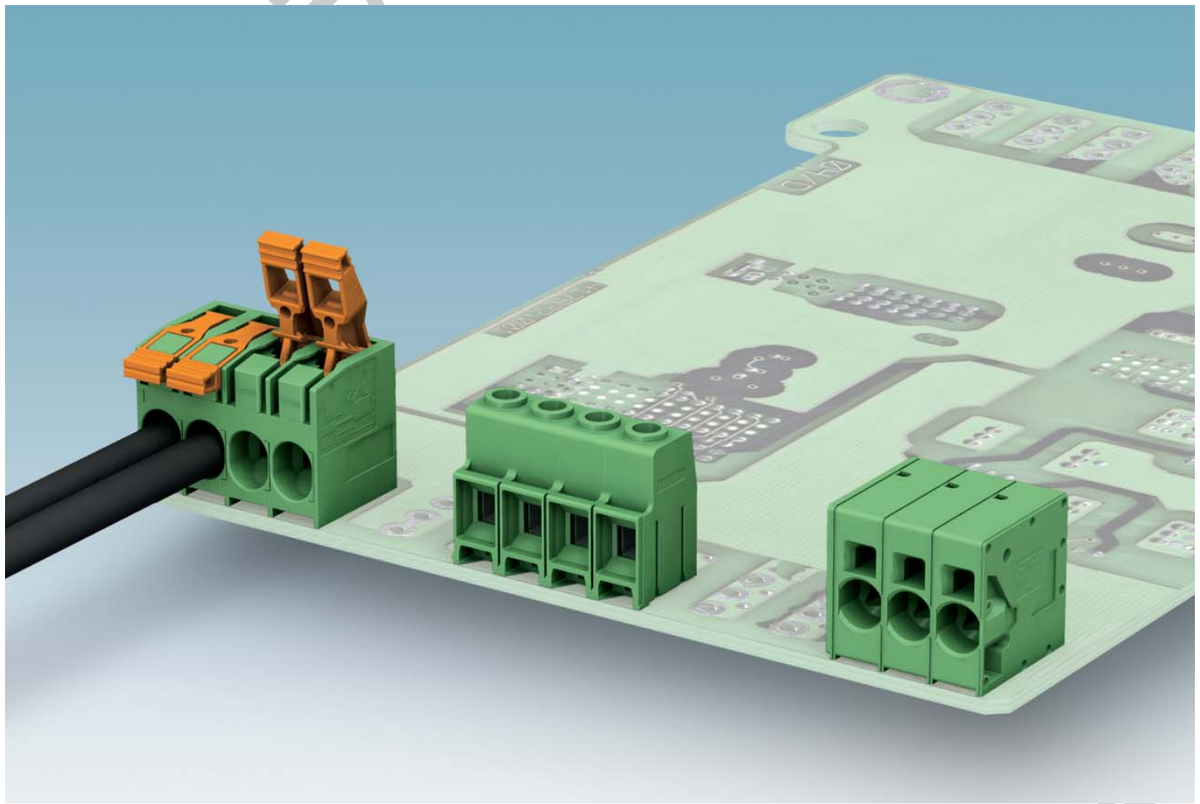
PCB terminal blocks

High-performance PCB terminal blocks provide connection options for conductors with cross sections of 0.2 to 35 mm². The conductors are easily connected using the tension sleeve principle or the spring-cage method. This, therefore, eliminates the need for complex and costly auxiliary constructions with ring cable lugs, upstream DIN rails or modular terminal block packages.

The particularly powerful screw PCB terminal block, MKDSP 25, is designed for currents up to 125 A and has unlimited UL approval up to 600 V or 1000 V according to IEC/DIN VDE. It is connected quickly and reliably to the PCB by means of wave soldering.

The PCB terminal blocks with push-in spring connection in the SPT series (Spring Print Terminal) enable quick and user-friendly conductor connection. Stranded conductors with ferrules or solid conductors can be inserted directly into the terminal point quickly and without tools.

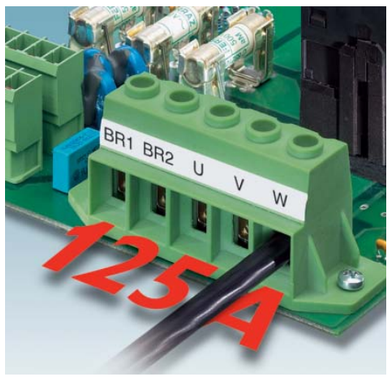
General	**440**
PCB terminal blocks with screw connection, MKDS 5 series up to 41 A/6 mm²	**443**
Horizontal connection direction, pitch 6.35/7.62/9.52 mm	**443**
600 V-UL, horizontal connection direction, pitch 6.35/9.52 mm	**445**
Angled connection direction, pitch 6.35/9.5² mm	**447**
Double-level design, pitch 6.35/9.52 mm	**449**
PCB terminal blocks with screw connection, MKDS 10 series up to 76 A/16 mm²	**451**
Horizontal connection direction, pitch 10.16/12.7 mm	**451**
600 V-UL, horizontal connection direction, pitch 10.16/12.7 mm	**453**
PCB terminal blocks with screw connection, MKDSP 25 series, up to 125 A/35 mm²	**453**
Horizontal connection direction, pitch 15 mm	**453**
Special designs with screw connection, KDS 10, Front 4 series, up to 76 A, 32 A/16 mm², 4 mm²	**453**
Feed-through PCB terminal blocks, pitch 10 mm	**453**
Front PCB terminal blocks, pitch 6.35/7.62 mm	**459**
PCB terminal blocks with push-in spring connection, SPT series, up to 41 A/6 mm², 16 mm²	**463**
Horizontal and vertical connection direction, pitch 7.5 mm	**463**
Horizontal and vertical connection direction, pitch 10 mm	**465**
PCB terminal blocks with push-lock spring connection, PL series, up to 41 A, 76 A/6 mm², 16 mm²	**470**
Horizontal and angled connection direction, pitch 7.5 mm	**470**
Horizontal design up to 10 mm pitch	**473**
PCB terminal blocks with push-lock spring connection for the reflow process, PTSPL series up to 41 A/6 mm²	**475**
Horizontal design without insulating housing	**475**
PCB terminal blocks with spring-cage connection, ZFKDS series up to 41 A, 76 A/6 mm², 16 mm²	**477**
Angled connection direction, pitch 7.5 mm	**477**
Angled connection direction, pitch 10 mm	**479**

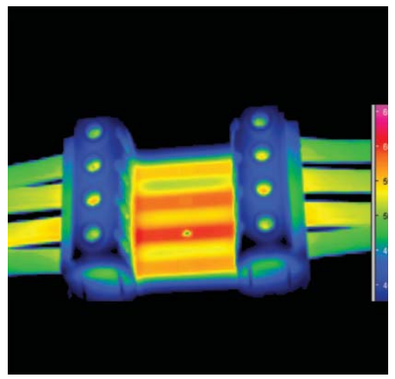


125 A via the PCB? It works!

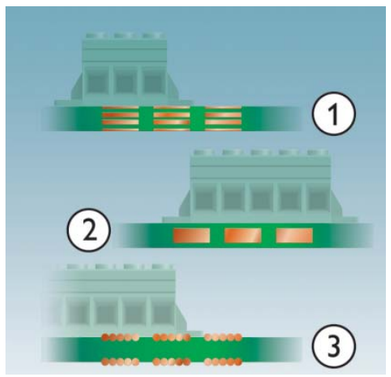
Used in conjunction with high-current PCBs, the high-performance PCB terminal blocks support a current carrying capacity of up to 125 A.

Different PCB production technologies are providing new options for device design. The necessary functions and modules can now be grouped together on a single PCB. In this manner, expensive additional device wiring can be eliminated.





Thermographic image of a test application with 125 A



PCB production technologies
- ① = Multi-layer technology
- ② = Thick copper technology
- ③ = Wire-writing technology



Color coding

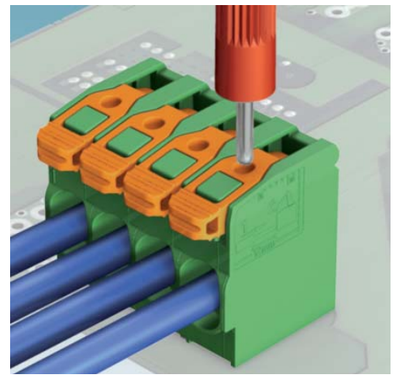
Color coding/printing, which is available as an option, enables the easy assignment of conductor/terminal points. This simplifies error-free installation of the devices to be connected. Color coding facilitates the easy and reliable implementation of work instructions such as “red conductor to red terminal point”.



UL approvals for 600 V high-current applications

The high-performance PCB terminal blocks offer 600 V UL approval for every application, even those with the smallest of dimensions. Please note that a distinction must be made here between product and device approvals. The COMBICON power flyer lists the applicable approvals for products and applications in detail.

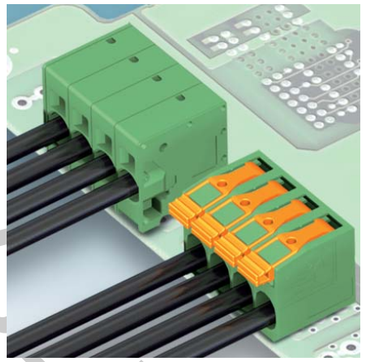
For additional information on UL certifications, see page 42.



Fast and user-friendly testing

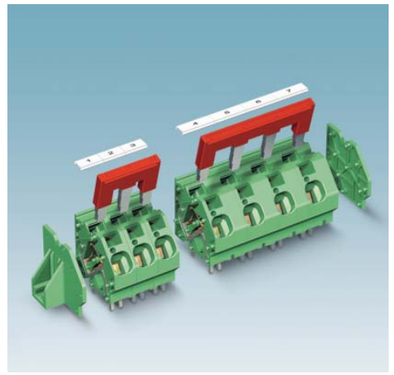
The high-performance PCB terminal block range offers a variety of products with integrated test connections/touch connections for service work and locating errors.

Measurements can, therefore, be taken easily without having to remove the wiring or other accessories.



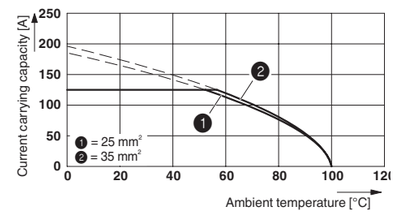
Connect large cross sections quickly and easily

With fast connection technology, conductors of up to 16 mm² are easily connected.
- With the PL series conductor connection, you can choose between the tool-free “one-hand rocker arm” principle and push-in connection.
- The SPT series with push-in connection facilitates the fast and tool-free connection of solid or stranded conductors with ferrules of up to 16 mm².



Bridges

The fully-insulated plug-in bridges in the ZFKDS series enable potential distribution or the ground conductor to be looped through. These enable the terminal blocks to be bridged electrically as required. The bridges, which are available with various numbers of positions, are inserted in the separate bridge shafts using minimal force.

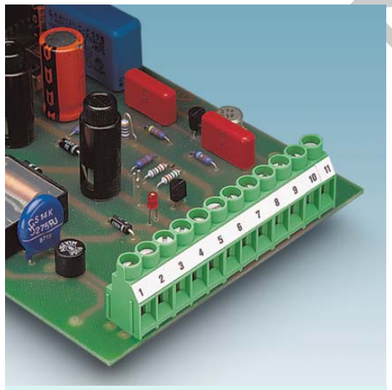


Current carrying capacity of PCB terminal blocks

Base curves are provided in the catalog so that the permitted current carrying capacity of the high-performance PCB terminal blocks can be determined. The maximum permissible current strength for a specific application can be read depending on the ambient temperature. The number of positions and the connection cross section of a conductor must be taken into account while doing so. Please also refer to the laboratory data sheets of the corresponding products. More information can be found on page 854.

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Horizontal connection direction, pitch 6.35/7.62/9.52 mm



- PCB terminal blocks with screw connection up to 6 mm² conductor cross section
- 2 and 3-pos. terminal block bases in order to set up any number of positions
- Different pitches to fulfill different voltage requirements (6.35 mm / 7.62 mm / 9.52 mm)
- Versions with anti-rotation pins (MKDSV, recommended for 2-pos. connections)

Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.

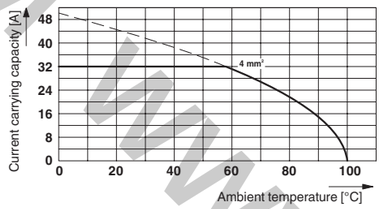
1) Please observe the current carrying capacity curves and laboratory data sheets. Further current carrying capacity curves on request.

Accessories

For all types	Type	Page
	Screwdriver **SZS 0,6 x 3,5 Order No. 1205053**	
	Marker cards **SK 6,2/3,8 or SK 7,5/3,8 or SK 5 WH:REEL**	799

Current carrying capacity curve

Type: MKDS 5/2-6,35 and MKDS 5/3-6,35
Test following DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5



Technical data

		MKDS 5/..-6,35			MKDS 5/ ...7,62			MKDS 5/...-9,5		
Technical data in accordance to IEC / DIN VDE										
Rated current / conductor cross section	[A] / [mm²]	32¹) / 6			32¹) / 6			32¹) / 6		
Rated insulation voltage for pollution degree 2	[V]	630			630			1000		
Pitch	[mm]	6.35			7.62			9.52		
Connection capacity										
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 6 / 0.2 - 4 / 24 - 10			0.2 - 6 / 0.2 - 4 / 24 - 10			0.2 - 6 / 0.2 - 4 / 24 - 10		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 4			0.25 - 4			0.25 - 4		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 4			0.25 - 4			0.25 - 4		
Multi-conductor connection capacity (two conductors with the same cross section)										
Solid / stranded	[mm²]	0.2 - 1.5 / 0.2 - 1.5			0.2 - 1.5 / 0.2 - 1.5			0.2 - 1.5 / 0.2 - 1.5		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 0.75			0.25 - 0.75			0.25 - 0.75		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 2.5			0.5 - 2.5			0.5 - 2.5		
Insulation coordination										
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	500	630	1000	500	630	1000	690	1000	1000
Rated surge voltage	[kV]	6	6	6	6	6	6	6	6	6
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	300	-	300	300	-	300	300	300	600
Nominal current	[A]	30	-	10	30	-	10	30	30	5
Connection capacity AWG	AWG	30 - 10	-	30 - 10	30 - 10	-	30 - 10	30 - 10	30 - 10	30 - 10
Approval data (CSA)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	300	-	300	-	-	-	300	300	-
Nominal current	[A]	10	-	10	-	-	-	30	30	-
Connection capacity AWG	AWG	28 - 10	-	28 - 10	-	-	-	28 - 10	28 - 10	-
General data										
Stripping length	[mm]	8			8			8		
Screw thread		M3			M3			M3		
Tightening torque	[Nm]	0.5 - 0.6			0.5 - 0.6			0.5 - 0.6		
Type of insulation material / insulation material group		PA / I			PA / I			PA / I		
Inflammability class according to UL 94		V0			V0			V0		
Drill hole diameter / pin dimensions	[mm]	1.3 / 0,9 x 0,9 mm			1.3 / 0,9 x 0,9 mm			1.3 / 0,9 x 0,9 mm		

No. of pos.	Dim. a [mm]
2	6.35
3	12.70
2	6.35
3	12.70
2	7.62
3	15.24
2	7.62
3	15.24
2	9.52
3	19.04
2	9.52
3	19.04

PCB terminal blocks for power electronics with pitch from 6.35 to 15.0 mm
PCB terminal blocks with screw connection, MKDS 5 series up to 41 A/6 mm²



6.35 mm pitch



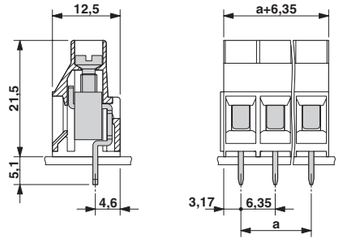
7.62 mm pitch



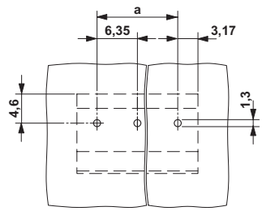
9.52 mm pitch

CCA

Dimensional drawing



Drilling diagram

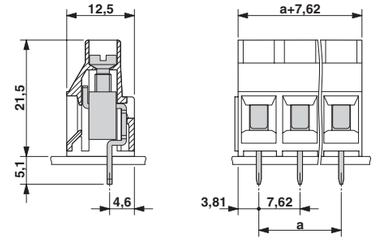


Ordering data

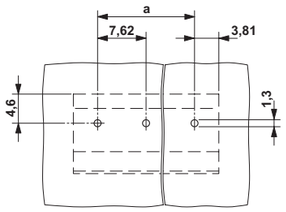
Type	Order No.	Pcs. / Pkt.
6.35 mm pitch, color: Green		
MKDS 5/ 2-6,35	**1714955**	50
MKDS 5/ 3-6,35	**1714968**	50
6.35 mm pitch, color: green, with anti-rotation pins, for drilling plans and dimensional drawings see www.phoenixcontact.net/products.		
MKDSV 5/ 2-6,35	**1710056**	50
MKDSV 5/ 3-6,35	**1710085**	50

CCA

Dimensional drawing



Drilling diagram

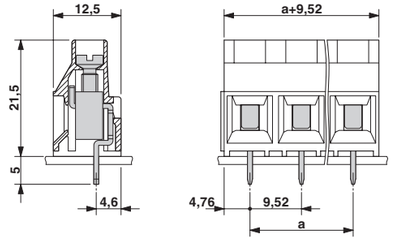


Ordering data

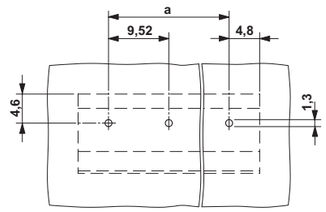
Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
MKDS 5/ 2-7,62	**1868076**	50
MKDS 5/ 3-7,62	**1704936**	50
7.62 mm pitch, color: green, with anti-rotation pins, for drilling plans and dimensional drawings see www.phoenixcontact.net/products.		
MKDSV 5/ 2-7,62	**1907131**	50
MKDSV 5/ 3-7,62	**1907144**	50

CCA

Dimensional drawing



Drilling diagram

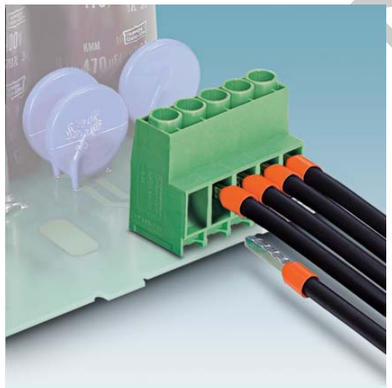


Ordering data

Type	Order No.	Pcs. / Pkt.
9.52 mm pitch, color: Green		
MKDS 5/ 2-9,5	**1714971**	50
MKDS 5/ 3-9,5	**1714984**	50
9.52 mm pitch, color: Green, with anti-rotation pins, for drilling plans and dimensional drawings see www.phoenixcontact.net/products.		
MKDSV 5/ 2-9,5	**1710072**	50
MKDSV 5/ 3-9,5	**1710069**	50

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600 V-UL, horizontal connection direction, pitch 6.35/9.52 mm



- High-voltage MKDS 5N HV PCB terminal blocks with increased air and creepage distances
- Unrestricted 600 V UL approval thanks to compact Z pinning (MKDS 5N HV/...ZB-6,35 and MKDS 5 HV/...-9,52-Z)

MKDS 5 HV/...-9,52...
- 2 and 3-pos. terminal block bases in order to set up any number of positions
- Versions with anti-rotation pins (MKDSV, recommended for 2-pos. connections)

Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.

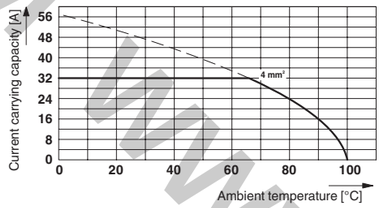
[1]) Please observe the current carrying capacity curves and laboratory data sheets. Further current carrying capacity curves on request.

Accessories

For all types	Type	Page
	Screwdriver **SZS 0,6 x 3,5 Order No. 1205053**	
	Marker cards **SK 6,2/3,8 or SK 5,0 WH:REEL**	799

Current carrying capacity curve

Type: MKDS 5 HV/2-9,52 and MKDS 5 HV/3-9,52
Test following DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5



Technical data

		MKDS 5N HV/ ...-ZB-6,35			MKDS 5 HV/ ...-9,52			MKDS 5 HV/ ...-9,52-Z		
Technical data in accordance to IEC / DIN VDE										
Rated current / conductor cross section	[A] / [mm²]	41[1]) / 6			32[1]) / 6			32[1]) / 6		
Rated insulation voltage for pollution degree 2	[V]	1000			1000			1000		
Pitch	[mm]	6.35			9.52			9.52		
Connection capacity										
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 6 / 0.2 - 4 / 24 - 10			0.2 - 6 / 0.2 - 4 / 24 - 10			0.2 - 6 / 0.2 - 4 / 24 - 10		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 4			0.25 - 4			0.25 - 4		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 4			0.25 - 4			0.25 - 4		
Multi-conductor connection capacity (two conductors with the same cross section)										
Solid / stranded	[mm²]	0.2 - 1.5 / 0.2 - 1.5			0.2 - 1.5 / 0.2 - 1.5			0.2 - 1.5 / 0.2 - 1.5		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 0.75			0.25 - 0.75			0.25 - 0.75		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 2.5			0.5 - 2.5			0.5 - 2.5		
Insulation coordination										
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	800	1000	1000	800	1000	1000	690	1000	1000
Rated surge voltage	[kV]	8	8	8	8	8	6	8	8	6
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	600	600	-	300	300	600	600	600	-
Nominal current	[A]	30	30	-	30	30	5	30	30	-
Connection capacity AWG	AWG	30 - 10	30 - 10	-	30 - 10	30 - 10	30 - 10	30 - 10	30 - 10	-
Approval data (CSA)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-	-	-	-
General data										
Stripping length	[mm]	8			8			8		
Screw thread		M3			M3			M3		
Tightening torque	[Nm]	0.5 - 0.6			0.5 - 0.6			0.5 - 0.6		
Type of insulation material / insulation material group		PA / I			PA / I			PA / I		
Inflammability class according to UL 94		V0			V0			V0		
Drill hole diameter / pin dimensions	[mm]	1.3 / 0,9 x 0,9 mm			1.3 / 0,9 x 0,9 mm			1.3 / 0,9 x 0,9 mm		

No. of pos.	Dim. a [mm]
2	6.35
3	12.70
4	19.05
5	25.40
6	31.75
7	38.10
8	44.45
9	50.80
10	57.15
11	63.50
12	69.85
2	9.52
3	19.04
2	9.52



Z pinning, 600 V UL approval, 6.35 mm pitch

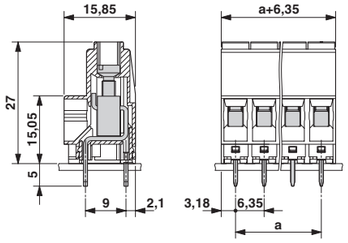


Linear pinning, 300 V UL approval, 9.52 mm pitch

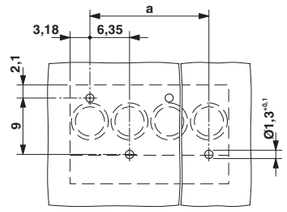


Z pinning, 600 V UL approval, 9.52 mm pitch

Dimensional drawing



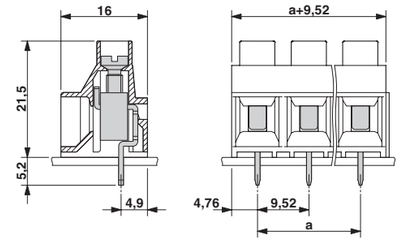
Drilling diagram



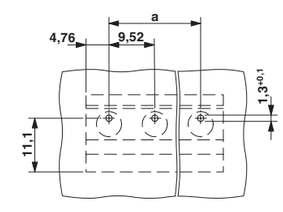
Ordering data

Type	Order No.	Pcs. / Pkt.
6.35 mm pitch, color: Green		
MKDS 5N HV/ 2-ZB-6,35	**1777545**	50
MKDS 5N HV/ 3-ZB-6,35	**1777558**	50
MKDS 5N HV/ 4-ZB-6,35	**1777561**	50
MKDS 5N HV/ 5-ZB-6,35	**1777574**	50
MKDS 5N HV/ 6-ZB-6,35	**1777587**	50
MKDS 5N HV/ 7-ZB-6,35	**1777590**	50
MKDS 5N HV/ 8-ZB-6,35	**1777600**	50
MKDS 5N HV/ 9-ZB-6,35	**1777613**	50
MKDS 5N HV/10-ZB-6,35	**1777626**	50
MKDS 5N HV/11-ZB-6,35	**1777639**	50
MKDS 5N HV/12-ZB-6,35	**1777642**	50

Dimensional drawing



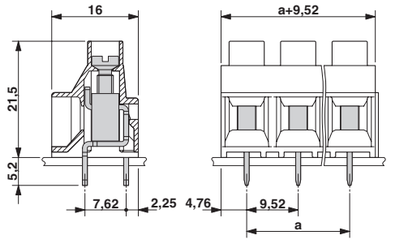
Drilling diagram



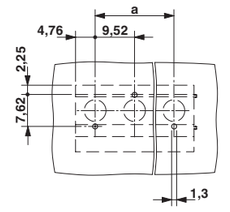
Ordering data

Type	Order No.	Pcs. / Pkt.
9.52 mm pitch, color: Green		
MKDS 5 HV/ 2-9,52	**1902547**	50
MKDS 5 HV/ 3-9,52	**1904150**	50
9.52 mm pitch, color: Green, with anti-rotation pins, for drilling plans and dimensional drawings see www.phoenixcontact.net/products.		
MKDSV 5 HV/ 2-9,52	**1904147**	50

Dimensional drawing



Drilling diagram

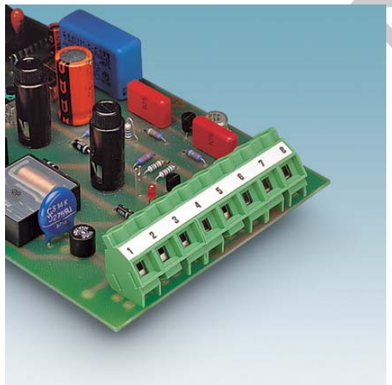


Ordering data

Type	Order No.	Pcs. / Pkt.
9.52 mm pitch, color: Green		
MKDS 5 HV/ 2-9,52-Z	**1907432**	50
MKDS 5 HV/ 3-9,52-Z	**1907429**	50
9.52 mm pitch, color: Green, with anti-rotation pins, for drilling plans and dimensional drawings see www.phoenixcontact.net/products.		
MKDSV 5 HV/ 2-9,52-Z	**1907416**	50

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Angled connection direction, pitch 6.35/9.52 mm



- Connection direction of the conductor angled to the PCB (35°)
- PCB terminal blocks with screw connection up to 6 mm² conductor cross section
- 2 and 3-pos. terminal block bases in order to set up any number of positions
- Different pitches to fulfill different voltage requirements (6.35 mm / 9.52 mm)

Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.

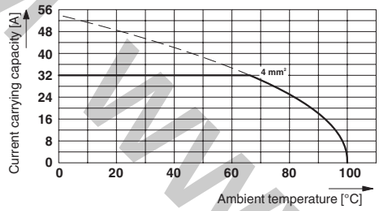
1) Please observe the current carrying capacity curves and laboratory data sheets. Further current carrying capacity curves on request.

Accessories

For all types	Type	Page
	Screwdriver **SZS 0,6 x 3,5 Order No. 1205053**	
	Marker cards **SK 6,2/3,8 or SK 5,0 WH:REEL**	799

Current carrying capacity curve

Type: SMKDS 5/2-6,35 and SMKDS 5/3-6,35
Test following DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5



Technical data

		SMKDS 5/ ...-6,35			SMKDS 5/ ...-9,5		
Technical data in accordance to IEC / DIN VDE							
Rated current / conductor cross section	[A] / [mm²]	32[1]) / 6			32[1]) / 6		
Rated insulation voltage for pollution degree 2	[V]	630			1000		
Pitch	[mm]	6.35			9.52		
Connection capacity							
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 6 / 0.2 - 4 / 24 - 10			0.2 - 6 / 0.2 - 4 / 24 - 10		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 4			0.25 - 4		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 4			0.25 - 4		
Multi-conductor connection capacity (two conductors with the same cross section)							
Solid / stranded	[mm²]	0.2 - 1.5 / 0.2 - 1.5			0.2 - 1.5 / 0.2 - 1.5		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 0.75			0.25 - 0.75		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 2.5			0.5 - 2.5		
Insulation coordination							
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	500	630	1000	690	1000	1000
Rated surge voltage	[kV]	6	6	6	6	6	6
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	250	-	300	250	300	-
Nominal current	[A]	30	-	10	30	30	-
Connection capacity AWG	AWG	30 - 10	-	30 - 10	30 - 10	30 - 10	-
Approval data (CSA)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	300	-	300	300	300	-
Nominal current	[A]	10	-	10	30	30	-
Connection capacity AWG	AWG	28 - 10	-	28 - 10	28 - 10	28 - 10	-
General data							
Stripping length	[mm]	8			8		
Screw thread		M3			M3		
Tightening torque	[Nm]	0.5 - 0.6			0.5 - 0.6		
Type of insulation material / insulation material group		PA / I			PA / I		
Inflammability class according to UL 94		V2			V2		
Drill hole diameter / pin dimensions	[mm]	1.3 / 0,9 x 0,9 mm			1.3 / 0,9 x 0,9 mm		

PCB terminal blocks for power electronics with pitch from 6.35 to 15.0 mm
PCB terminal blocks with screw connection, MKDS 5 series up to 41 A/6 mm²



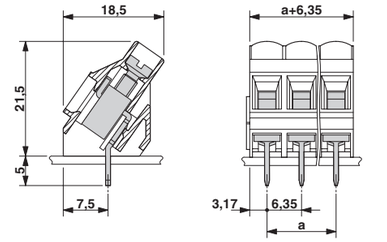
6.35 mm pitch, 35° angled connection direction



9.52 mm pitch, 35° angled connection direction

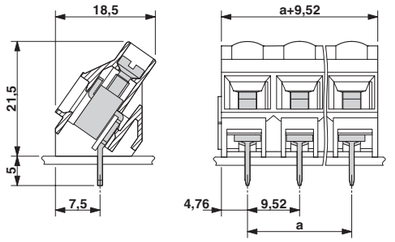
CCA

Dimensional drawing

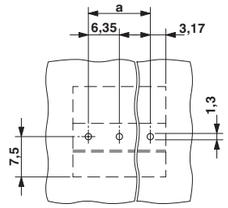


CCA

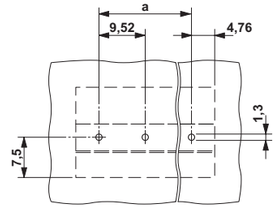
Dimensional drawing



Drilling diagram



Drilling diagram



No. of pos.	Dim. a [mm]
2	6.35
3	12.70
2	9.52
3	19.04

Ordering data

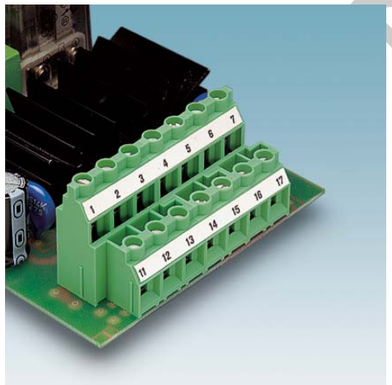
Type	Order No.	Pcs. / Pkt.
6.35 mm pitch, color: Green		
SMKDS 5/ 2-6,35	**1720033**	50
SMKDS 5/ 3-6,35	**1720046**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
9.52 mm pitch, color: Green		
SMKDS 5/ 2-9,5	**1720017**	50
SMKDS 5/ 3-9,5	**1720020**	50

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Double-level design, pitch 6.35/9.52 mm



- Double-level PCB terminal blocks with a screw connection up to 6 mm² conductor cross section
- Different pitches to fulfill different voltage requirements (6.35 mm / 9.52 mm)
- 2 and 3-pos. terminal block bases in order to set up any number of positions
- Lateral offset of terminal points for better accessibility of cable funnels

Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.

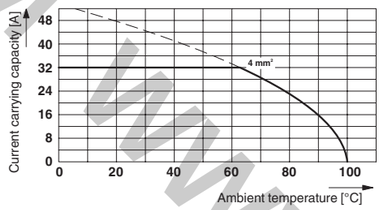
[1]) Please observe the current carrying capacity curves and laboratory data sheets. Further current carrying capacity curves on request.

Accessories

For all types	Type	Page
	Screwdriver **SZS 0,6 x 3,5 Order No. 1205053**	
	Marker cards **SK 6,2/3,8 or SK 5,0 WH:REEL**	799

Current carrying capacity curve

Type: MKKDS 5/2-6,35 and MKKDS 5/3-6,35
Test following DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5



Technical data

		MKKDS 5/ ...-6,35			MKKDS 5/ ...-9,5		
Technical data in accordance to IEC / DIN VDE							
Rated current / conductor cross section	[A] / [mm²]	32[1]) / 6			32[1]) / 6		
Rated insulation voltage for pollution degree 2	[V]	630			1000		
Pitch	[mm]	6.35			9.52		
Connection capacity							
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 6 / 0.2 - 4 / 24 - 10			0.2 - 6 / 0.2 - 4 / 24 - 10		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 2.5			0.25 - 2.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 4			0.25 - 4		
Multi-conductor connection capacity (two conductors with the same cross section)							
Solid / stranded	[mm²]	0.2 - 1.5 / 0.2 - 1.5			0.2 - 1.5 / 0.2 - 1.5		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 0.75			0.25 - 0.75		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 2.5			0.5 - 2.5		
Insulation coordination							
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	500	630	1000	690	1000	1000
Rated surge voltage	[kV]	6	6	6	6	6	6
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	300	-	300	300	300	600
Nominal current	[A]	30	-	10	30	30	5
Connection capacity AWG	AWG	30 - 10	-	30 - 10	30 - 10	30 - 10	30 - 10
Approval data (CSA)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	300	-	300	300	300	-
Nominal current	[A]	10	-	10	30	30	-
Connection capacity AWG	AWG	28 - 10	-	28 - 10	28 - 10	28 - 10	-
General data							
Stripping length	[mm]	8			8		
Screw thread		M3			M3		
Tightening torque	[Nm]	0.5 - 0.6			0.5 - 0.6		
Type of insulation material / insulation material group		PA / I			PA / I		
Inflammability class according to UL 94		V0			V2		
Drill hole diameter / pin dimensions	[mm]	1.3 / 0,9 x 0,9 mm			1.3 / 0,9 x 0,9 mm		

PCB terminal blocks for power electronics with pitch from 6.35 to 15.0 mm
PCB terminal blocks with screw connection, MKDS 5 series up to 41 A/6 mm²



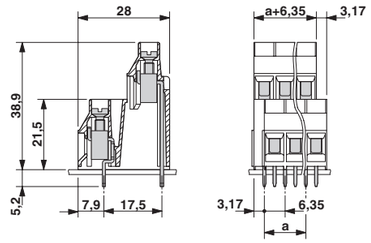
6.35 mm pitch,
double-level PCB terminal block



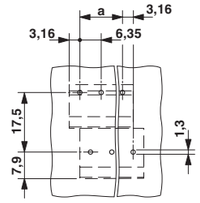
9.52 mm pitch,
double-level PCB terminal block

cULus CCA

Dimensional drawing



Drilling diagram



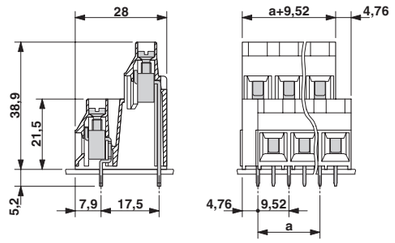
No. of pos.	Dim. a [mm]
2	6.35
3	12.70
2	9.52
3	19.04

Ordering data

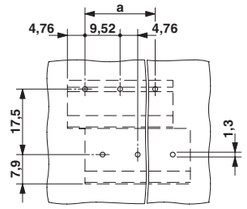
Type	Order No.	Pcs. / Pkt.
6.35 mm pitch, color: Green		
MKKDS 5/ 2-6,35	**1719031**	50
MKKDS 5/ 3-6,35	**1719044**	50

cULus CCA

Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
9.52 mm pitch, color: Green		
MKKDS 5/ 2-9,5	**1719015**	50
MKKDS 5/ 3-9,5	**1719028**	50

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Horizontal connection direction, pitch 10.16/12.7 mm



- High-capacity PCB terminal blocks with a screw connection up to 16 mm² flexible and a current carrying capacity of 76 A
- Individual adjustment of voltage requirements using RZ pitch spacers (MKDS 10 HV)
- MKDSP 10 HV...-12,7 with unrestricted 600-V-UL approval
- Integrated test connection
- Terminal block bases that can be lined up next to each other in order to set up any number of positions

Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.

When using ferrules for 16 mm² conductors, crimp with CRIMPFOX 16 S (see accessories).

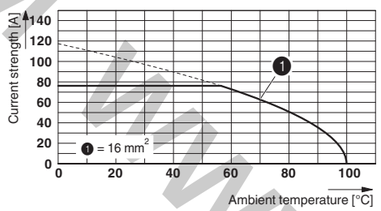
1) Please observe the current carrying capacity curves and laboratory data sheets. Further current carrying capacity curves on request.

Accessories

For all types	Type	Page
	Test plug **MPS**	831
	Screwdriver **SZS 0,6 x 3,5 Order No. 1205053**	
	Marker strips **SK 5,0 WH:REEL Order No. 0805221**	801
	Crimping pliers for 0.25 to 6 mm² **CRIMPFOX 6 Order No. 1212034**	
	Crimping pliers for 10 to 16 mm² **CRIMPFOX 16 S Order No. 1207983**	
Only for MKDSP 10 HV...-12,7		
	Pitch spacer, width: 2.54 mm **RZ-MKDSP 10 HV-2,54 Order No. 1929672**	

Current carrying capacity curve

Type: MKDSP 10N/...-10,16
Tested in accordance with DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5



Technical data

		MKDSP 10N/ ...-10,16			MKDSP 10HV/ ...-10,16			MKDSP 10HV/ ...-12,7		
Technical data in accordance to IEC / DIN VDE										
Rated current / conductor cross section	[A] / [mm²]	76¹) / 16			76¹) / 16			76¹) / 16		
Rated insulation voltage for pollution degree 2	[V]	1000			1000			1000		
Pitch	[mm]	10.16			10.16			12.7		
Connection capacity										
Solid / stranded	[mm²] / [mm²] / AWG	0.5 - 16 / 0.5 - 16 / 20 - 6			0.5 - 16 / 0.5 - 16 / 20 - 6			0.5 - 16 / 0.5 - 16 / 20 - 6		
Stranded with ferrules without plastic sleeve	[mm²]	0.5 - 16			0.5 - 16			0.5 - 16		
Stranded with ferrules with plastic sleeve	[mm²]	0.5 - 16			0.5 - 16			0.5 - 16		
Multi-conductor connection capacity (two conductors with the same cross section)										
Solid / stranded	[mm²]	0.5 - 4 / 0.5 - 4			0.5 - 4 / 0.5 - 4			0.5 - 4 / 0.5 - 4		
Stranded with ferrules without plastic sleeve	[mm²]	0.5 - 2.5			0.5 - 2.5			0.5 - 2.5		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 6			0.5 - 6			0.5 - 6		
Insulation coordination										
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	690	1000	1000	690	1000	1000	1000	1000	1000
Rated surge voltage	[kV]	8	8	6	8	8	6	8	8	6
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	300	300	600	300	300	600	600	600	-
Nominal current	[A]	60	60	5	60	60	5	60	60	-
Connection capacity AWG	AWG	20 - 6	20 - 6	20 - 6	20 - 6	20 - 6	20 - 6	20 - 6	20 - 6	-
Approval data (CSA)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-	-	-	-
General data										
Stripping length	[mm]	10			10			10		
Screw thread		M4			M4			M4		
Tightening torque	[Nm]	1.2 - 1.5			1.2 - 1.5			1.2 - 1.5		
Type of insulation material / insulation material group		PA / I			PA / I			PA / I		
Inflammability class according to UL 94		V0			V0			V0		
Drill hole diameter / pin dimensions	[mm]	1.5 / 1 x 0,9 mm			1.5 / 1 x 0,9 mm			1.5 / 1 x 0,9 mm		

No. of pos.	Dim. a [mm]
2	10.16
3	20.32
2	10.16
3	20.32
2	12.70
3	25.40



10.16 mm pitch, 300 V UL approval

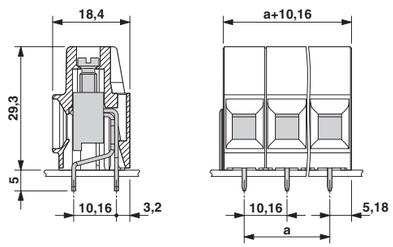


10.16 mm pitch, 300 V UL approval

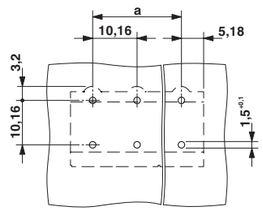


12.7 mm pitch, 600 V UL approval

Dimensional drawing



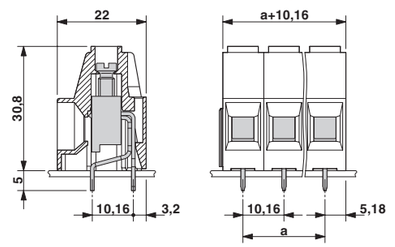
Drilling diagram



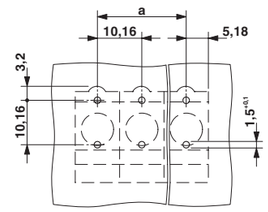
Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 10.16 mm, color: Green		
MKDSP 10N/ 2-10,16	**1773976**	50
MKDSP 10N/ 3-10,16	**1774137**	50

Dimensional drawing



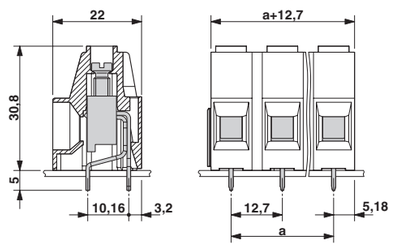
Drilling diagram



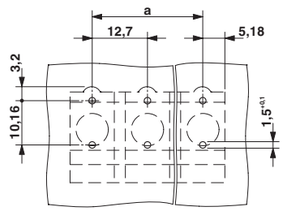
Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 10.16 mm, color: Green		
MKDSP 10HV/ 2-10,16	**1929517**	50
MKDSP 10HV/ 3-10,16	**1929520**	50

Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 12.7 mm, color: Green		
MKDSP 10HV/ 2-12,7	**1929533**	50
MKDSP 10HV/ 3-12,7	**1929546**	50

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600 V-UL, horizontal connection direction, pitch 10.16 mm



- Compact high-capacity PCB terminal blocks with a screw connection up to 16 mm², stranded, and a current carrying capacity of 76 A
- Unrestricted 600-V-UL approval thanks to zig-zag pinning
- Pitch 10.16 mm
- MKDS 10 HV/...-B-10,16 with a solder pin at the back; MKDS 10 HV/...-F-10,16 with a solder pin in the front
- Terminal block bases that can be lined up next to each other in order to set up any number of positions

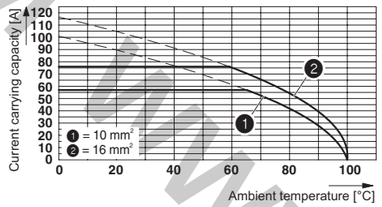
Notes:
In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.
When using ferrules for 16 mm² conductors, crimp with CRIMPFOX 16 S (see accessories).
When aligning single PCB terminal blocks with identical pinning, other rated insulation voltages can occur.
1) Please observe the current carrying capacity curves and laboratory data sheets. Further current carrying capacity curves on request.

Accessories

For all types	Type	Page
	Screwdriver **SZS 0,6 x 3,5 Order No. 1205053**	
	Marker strips **SK 5,0 WH:REEL Order No. 0805221**	801
	Crimping pliers for 0.25 to 6 mm² **CRIMPFOX 6 Order No. 1212034**	
	Crimping pliers for 10 to 16 mm² **CRIMPFOX 16 S Order No. 1207983**	

Current carrying capacity curve

Type: MKDS 10 HV/...-ZB-10,16
Tested in accordance with DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions = 5



No. of pos.	Dim. a [mm]
1	
2	10.16
3	20.32
4	30.48
5	40.64
6	50.80
7	60.96
8	71.12
9	81.28
10	91.44
11	101.60
12	111.76

Technical data

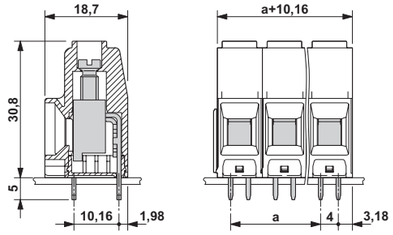
		MKDS 10 HV/ ...-ZB-10,16			MKDS 10 HV/ 1-B-10,16			MKDS 10 HV/ 1-F-10,16		
Technical data in accordance to IEC / DIN VDE										
Rated current / conductor cross section	[A] / [mm²]	76¹) / 16			76¹) / 16			76¹) / 16		
Rated insulation voltage for pollution degree 2	[V]	1000			400			400		
Pitch	[mm]	10.16			10.16			10.16		
Connection capacity										
Solid / stranded	[mm²] / [mm²] / AWG	0.5 - 16 / 0.5 - 16 / 20 - 6			0.5 - 16 / 0.5 - 16 / 20 - 6			0.5 - 16 / 0.5 - 16 / 20 - 6		
Stranded with ferrules without plastic sleeve	[mm²]	0.5 - 16			0.5 - 16			0.5 - 16		
Stranded with ferrules with plastic sleeve	[mm²]	0.5 - 16			0.5 - 16			0.5 - 16		
Multi-conductor connection capacity (two conductors with the same cross section)										
Solid / stranded	[mm²]	0.5 - 6 / 0.5 - 6			0.5 - 6 / 0.5 - 6			0.5 - 6 / 0.5 - 6		
Stranded with ferrules without plastic sleeve	[mm²]	0.5 - 4			0.5 - 4			0.5 - 4		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 6			0.5 - 6			0.5 - 6		
Insulation coordination										
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	800	1000	1000	400	400	800	400	400	800
Rated surge voltage	[kV]	8	8	8	4	4	4	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	600	600	-	600	600	-	600	600	-
Nominal current	[A]	60	60	-	60	60	-	60	60	-
Connection capacity AWG	AWG	20 - 6	20 - 6	-	20 - 6	20 - 6	-	20 - 6	20 - 6	-
Approval data (CSA)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-	-	-	-
General data										
Stripping length	[mm]	10			10			10		
Screw thread		M4			M4			M4		
Tightening torque	[Nm]	1.2 - 1.5			1.2 - 1.5			1.2 - 1.5		
Type of insulation material / insulation material group		PA / I			PA / I			PA / I		
Inflammability class according to UL 94		V0			V0			V0		
Drill hole diameter / pin dimensions	[mm]	1.5 / 1 x 0,9 mm			1.5 / 1 x 0,9 mm			1.5 / 1 x 0,9 mm		

Z pinning, 600 V UL approval

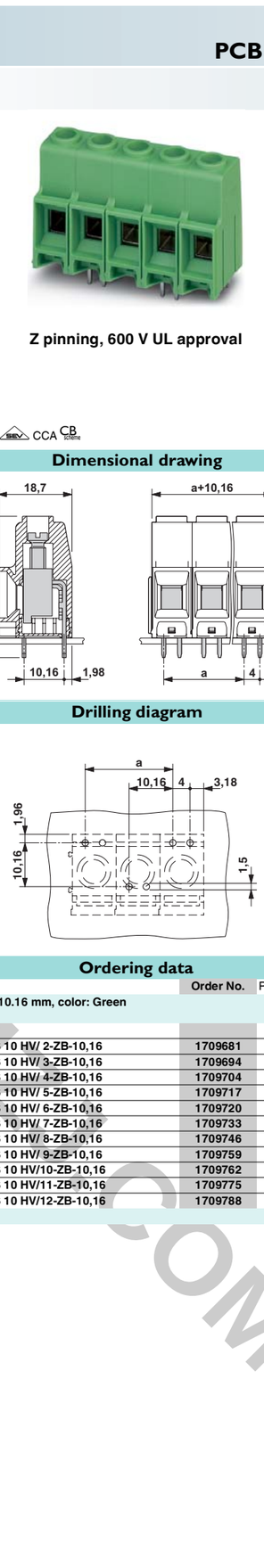
Single PCB terminal block with solder pin to the rear, 600 V UL approval

Single PCB terminal block with solder pin to the front, 600 V UL approval

Dimensional drawing



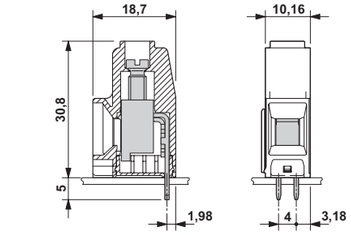
Drilling diagram



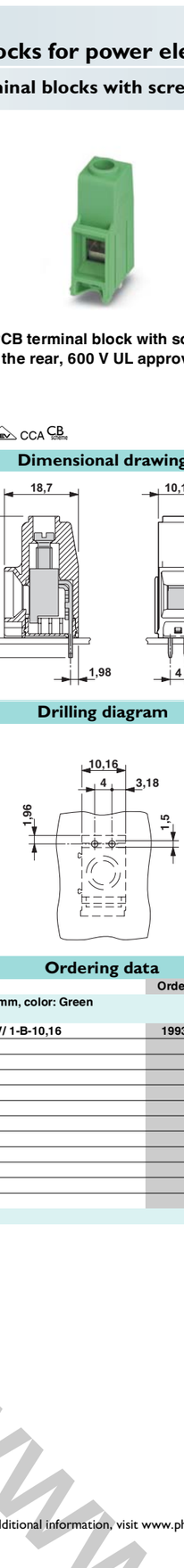
Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 10.16 mm, color: Green		
MKDS 10 HV/ 2-ZB-10,16	**1709681**	50
MKDS 10 HV/ 3-ZB-10,16	**1709694**	50
MKDS 10 HV/ 4-ZB-10,16	**1709704**	50
MKDS 10 HV/ 5-ZB-10,16	**1709717**	50
MKDS 10 HV/ 6-ZB-10,16	**1709720**	50
MKDS 10 HV/ 7-ZB-10,16	**1709733**	50
MKDS 10 HV/ 8-ZB-10,16	**1709746**	50
MKDS 10 HV/ 9-ZB-10,16	**1709759**	50
MKDS 10 HV/10-ZB-10,16	**1709762**	50
MKDS 10 HV/11-ZB-10,16	**1709775**	50
MKDS 10 HV/12-ZB-10,16	**1709788**	50

Dimensional drawing



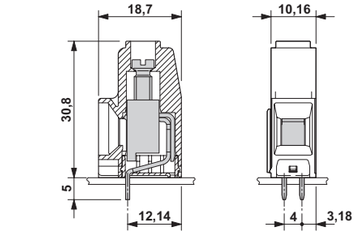
Drilling diagram



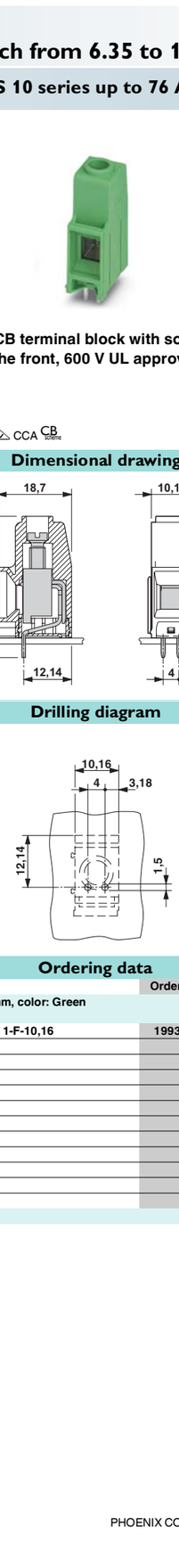
Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 10.16 mm, color: Green		
MKDS 10 HV/ 1-B-10,16	**1993776**	50

Dimensional drawing



Drilling diagram

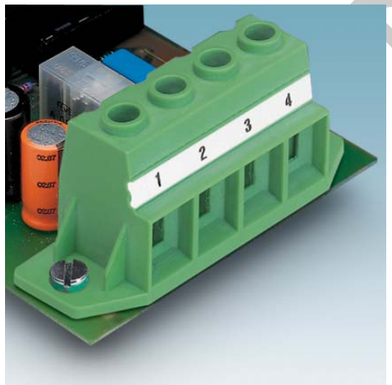


Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 10.16 mm, color: Green		
MKDS 10 HV/ 1-F-10,16	**1993763**	50

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Horizontal connection direction, pitch 15 mm



- High-capacity PCB terminal blocks with a screw connection up to 35 mm² conductor cross section and a current carrying capacity of 125 A
- Unrestricted 600-V-UL approval
- Integrated test connection
- Version with mounting flange (-F) for safe mounting on the PCB
- Single-pos. version with a left-sided mounting flange (-FL)
- Integrated protective guide

Notes:

[1]) Please observe the current carrying capacity curves and laboratory data sheets. Further current carrying capacity curves on request.

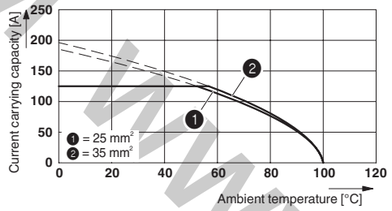
[2]) 2.5 Nm = 25 mm²
4.5 Nm = 35 mm²

Accessories

For all types	Type	Page
	Test plug **MPS**	831
	Reducing plug **RPS** **Order No. 0201647**	831
	Screwdriver **SZS 1,0 x 6,5** **Order No. 1205079**	
	Marker strips **SK 10,0 WH:REEL** **Order No. 0812188**	801
	Zack marker strip **ZBF 15: UNBEDRUCKT**	807

Current carrying capacity curve

Type: MKDSP 25/...-15,00
Tested in accordance with DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5



Technical data

		MKDSP 25/ ...-15,00			MKDSP 25/ ...-15,00-F			MKDSP 25/ 1-15,00-FL		
Technical data in accordance to IEC / DIN VDE										
Rated current / conductor cross section	[A] / [mm²]	125[1]) / 35			125[1]) / 35			125[1]) / 35		
Rated insulation voltage for pollution degree 2	[V]	1000			1000			1000		
Pitch	[mm]	15			15			15		
Connection capacity										
Solid / stranded	[mm²] / [mm²] / AWG	0.5 - 35 / 0.5 - 25 / 20 - 2			0.5 - 35 / 0.5 - 25 / 20 - 2			0.5 - 35 / 0.5 - 25 / 20 - 2		
Stranded with ferrules without plastic sleeve	[mm²]	1 - 25			1 - 25			1 - 25		
Stranded with ferrules with plastic sleeve	[mm²]	1.5 - 25			1.5 - 25			1.5 - 25		
Multi-conductor connection capacity (two conductors with the same cross section)										
Solid / stranded	[mm²]	0.5 - 6 / 0.5 - 6			0.5 - 6 / 0.5 - 6			0.5 - 6 / 0.5 - 6		
Stranded with ferrules without plastic sleeve	[mm²]	0.5 - 4			0.5 - 4			0.5 - 4		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 6			0.5 - 6			0.5 - 6		
Insulation coordination										
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	1000	1000	1000	1000	1000	1000	1000	1000	1000
Rated surge voltage	[kV]	8	8	8						
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	600	600	-	600	600	-	600	600	-
Nominal current	[A]	115	115	-	115	115	-	115	115	-
Connection capacity AWG	AWG	20 - 2	20 - 2	-	20 - 2	20 - 2	-	20 - 2	20 - 2	-
Approval data (CSA)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-	-	-	-
General data										
Stripping length	[mm]	18			18			18		
Screw thread		M5			M5			M5		
Tightening torque	[Nm]	2.5 - 4.5[2])			2.5 - 4.5[2])			2.5 - 4.5[2])		
Type of insulation material / insulation material group		PA / I			PA / I			PA / I		
Inflammability class according to UL 94		V0			V0			V0		
Drill hole diameter / pin dimensions	[mm]	1.6 / 1,2 x 1,2 mm			1.6 / 1,2 x 1,2 mm			1.6 / 1,2 x 1,2 mm		

No. of pos.	Dim. a [mm]
1	
2	15.00
3	30.00
4	45.00
5	60.00
6	75.00
7	90.00
8	105.00
9	120.00



Without mounting flange, 600 V UL approval

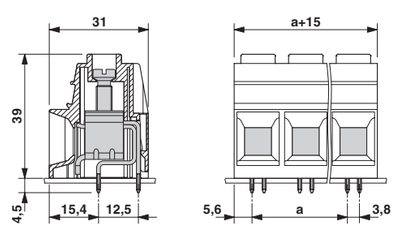


With mounting flange, 600 V UL approval

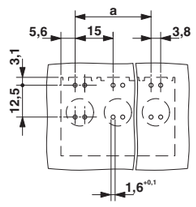


Single PCB terminal block with mounting flange, left, 600 V UL approval

Dimensional drawing



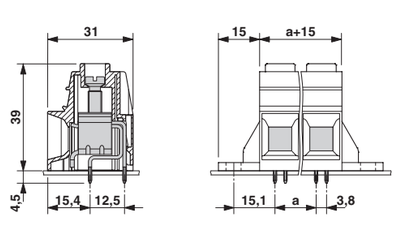
Drilling diagram



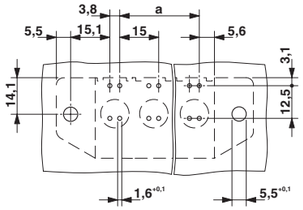
Ordering data

Type	Order No.	Pcs. / Pkt.
15 mm pitch, color: Green		
MKDSP 25/ 2-15,00	**1932588**	25
MKDSP 25/ 3-15,00	**1932591**	25
MKDSP 25/ 4-15,00	**1932601**	25
MKDSP 25/ 5-15,00	**1932614**	25
MKDSP 25/ 6-15,00	**1932627**	25
MKDSP 25/ 7-15,00	**1932630**	25
MKDSP 25/ 8-15,00	**1932643**	25
MKDSP 25/ 9-15,00	**1932656**	25

Dimensional drawing



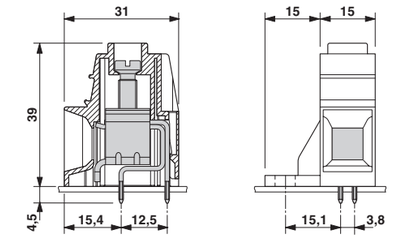
Drilling diagram



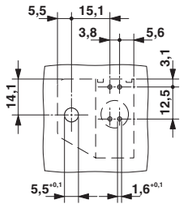
Ordering data

Type	Order No.	Pcs. / Pkt.
15 mm pitch, color: Green		
MKDSP 25/ 2-15,00-F	**1932494**	25
MKDSP 25/ 3-15,00-F	**1932504**	25
MKDSP 25/ 4-15,00-F	**1932517**	25
MKDSP 25/ 5-15,00-F	**1932520**	25
MKDSP 25/ 6-15,00-F	**1932533**	25
MKDSP 25/ 7-15,00-F	**1932546**	25
MKDSP 25/ 8-15,00-F	**1932559**	25
MKDSP 25/ 9-15,00-F	**1932562**	25

Dimensional drawing



Drilling diagram

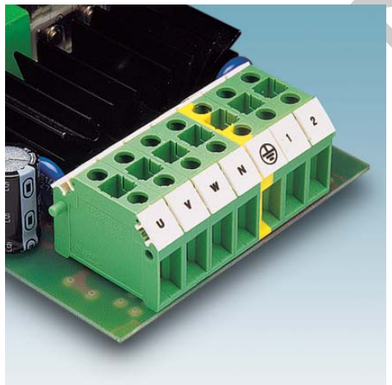


Ordering data

Type	Order No.	Pcs. / Pkt.
15 mm pitch, color: Green		
MKDSP 25/ 1-15,00-FL	**1932575**	25

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Feed-through PCB terminal blocks, pitch 10 mm



- High-capacity PCB terminal blocks with a current carrying capacity up to 76 A at the solder connection
- Can also be used as a feed-through terminal block up to 76 A
- Different solder pin geometries for greater voltage distances (KDS 10.../SO)
- Individual adjustment of voltage requirements using pitch spacers RZ
- Potential distribution possible by means of bridges

Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.

FBI 10-10 maximum via 3 KDS 10 terminal blocks. Remove the break-out wall for bridging.

[1]) Higher voltages are achieved when the RZ-KDS 10 pitch spacer is inserted.

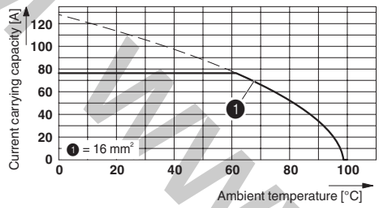
[2]) Please observe the current carrying capacity curves and laboratory data sheets. Further current carrying capacity curves on request.

Accessories

For all types	Type	Page
	Pitch spacer, width: 2.5 mm **RZ-KDS 10** **Order No. 1701065**	
	Fixed bridge, 10-pos., divisible **FBI 10-10** **Order No. 0203276**	
	Test plug **PS...**	831
	Test socket for PS test plugs **PSB 4/7/6** **Order No. 0303299**	
	Zack marker strip **ZB 10**	805
	Screwdriver **SZS 1,0 x 4,0** **Order No. 1205066**	

Current carrying capacity curve

Type: KDS 10
Test following DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5



Technical data

		KDS10			KDS10/SO			KDS10-PE		
Technical data in accordance to IEC / DIN VDE										
Rated current / conductor cross section	[A] / [mm²]	76[2]) / 16			76[2]) / 16			76[2]) / 16		
Rated insulation voltage for pollution degree 2	[V]	320			630			320		
Pitch	[mm]	10			10			10		
Connection capacity										
Solid / stranded	[mm²] / [mm²] / AWG	0.5 - 16 / 0.5 - 10 / 20 - 6			0.5 - 16 / 0.5 - 10 / 20 - 6			0.5 - 16 / 0.5 - 10 / 20 - 6		
Stranded with ferrules without plastic sleeve	[mm²]	0.5 - 10			0.5 - 10			0.5 - 10		
Stranded with ferrules with plastic sleeve	[mm²]	0.5 - 10			0.5 - 10			0.5 - 10		
Multi-conductor connection capacity (two conductors with the same cross section)										
Solid / stranded	[mm²]	0.5 - 4 / 0.5 - 4			0.5 - 4 / 0.5 - 4			0.5 - 4 / 0.5 - 4		
Stranded with ferrules without plastic sleeve	[mm²]	0.5 - 2.5			0.5 - 2.5			0.5 - 2.5		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 6			0.5 - 6			0.5 - 6		
Insulation coordination										
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250[1])	320	630	630[1])	630	1000	250	320	630
Rated surge voltage	[kV]	4	4	4	6	6	6	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	250	300	600	250	300	600	-	-	-
Nominal current	[A]	65	65	5	65	65	5	-	-	-
Connection capacity AWG	AWG	24 - 6	24 - 6	24 - 6	24 - 6	24 - 6	24 - 6	-	-	-
Approval data (CSA)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	300	300	-	300	300	-	-	-	-
Nominal current	[A]	65	65	-	65	65	-	-	-	-
Connection capacity AWG	AWG	18 - 6	18 - 6	-	18 - 6	18 - 6	-	-	-	-
General data										
Stripping length	[mm]	12			12			12		
Screw thread		M4			M4			M4		
Tightening torque	[Nm]	1.2 - 1.5			1.2 - 1.5			1.2 - 1.5		
Type of insulation material / insulation material group		PA / I			PA / I			PA / I		
Inflammability class according to UL 94		V0			V0			V0		
Drill hole diameter / pin dimensions	[mm]	1.4 / 1 x 0,9 mm			1.4 / 1 x 0,9 mm			1.4 / 1 x 0,9 mm		



Solder pins in a row



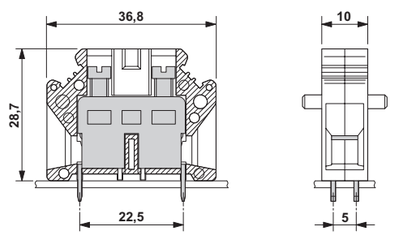
Offset solder pins



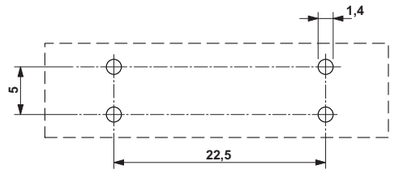
PE connection, solder pins in a row

CCA

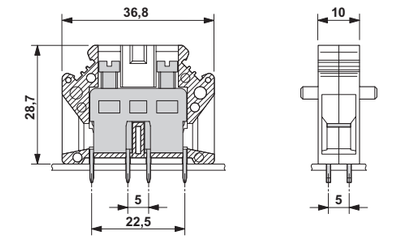
Dimensional drawing



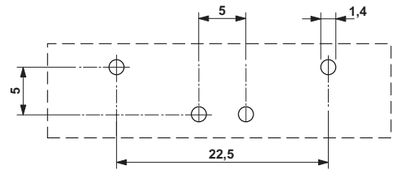
Drilling diagram



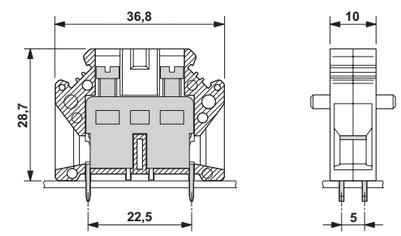
Dimensional drawing



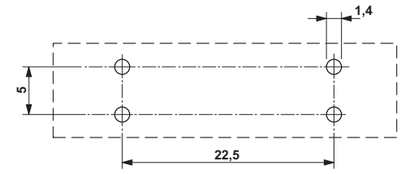
Drilling diagram



Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
10 mm pitch, color: Green		
KDS10	**1704020**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
10 mm pitch, color: Green		
KDS10/SO	**1704059**	50

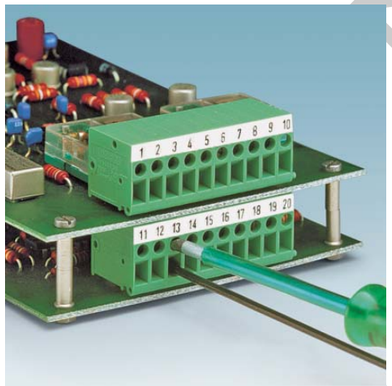
Ordering data

Type	Order No.	Pcs. / Pkt.
10 mm pitch, color: Green-yellow		
KDS10-PE	**1704033**	50

No. of pos.
1
1
1

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Front PCB terminal blocks, pitch 6.35/7.62 mm



- Front screw connection terminal blocks up to 6 mm² conductor cross section
- Connection direction of the conductor: Horizontal (0° -H) or vertical (90° -V)
- A cover is necessary at the end of a terminal block row (D-FRONT 4-6,35)

Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.

Additional versions and accessories for the KDS 10 series can be found on page 456.

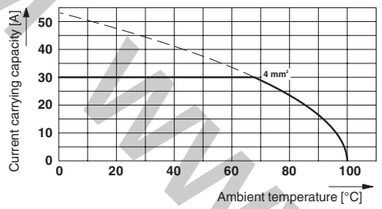
1) Please observe the current carrying capacity curves and laboratory data sheets. Further current carrying capacity curves on request.

Accessories

For all types	Type	Page
Only for KDS 10...		
	Screwdriver **SZS 1,0 x 4,0 Order No. 1205066**	
	Pitch spacer, width: 2.5 mm **RZ-KDS 10 Order No. 1701065**	
	Zack marker strip **ZB 10**	805
Only for FRONT 4...-6,5		
	Cover, width 1.5 mm **D-FRONT 4-6,35 Order No. 1703076**	
	Screwdriver **SZS 0,6 x 3,5 Order No. 1205053**	
	Marker cards **SK 6,2/3,8**	799

Current carrying capacity curve

Type: FRONT 4-H-6,35
Test following DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5



Technical data

		KDS10-PE/SO			FRONT 4-H-6,35			FRONT 4-V-6,35		
Technical data in accordance to IEC / DIN VDE										
Rated current / conductor cross section	[A] / [mm²]	76¹) / 16			32¹) / 6			32¹) / 6		
Rated insulation voltage for pollution degree 2	[V]	630			320			320		
Pitch	[mm]	10			6.35			6.35		
Connection capacity										
Solid / stranded	[mm²] / [mm²] / AWG	0.5 - 16 / 0.5 - 10 / 20 - 6			0.5 - 6 / 0.5 - 4 / 20 - 10			0.5 - 6 / 0.5 - 4 / 20 - 10		
Stranded with ferrules without plastic sleeve	[mm²]	0.5 - 10			0.5 - 4			0.5 - 4		
Stranded with ferrules with plastic sleeve	[mm²]	0.5 - 10			0.5 - 4			0.5 - 4		
Multi-conductor connection capacity (two conductors with the same cross section)										
Solid / stranded	[mm²]	0.5 - 4 / 0.5 - 4			0.5 - 1.5 / 0.5 - 1.5			0.5 - 1.5 / 0.5 - 1.5		
Stranded with ferrules without plastic sleeve	[mm²]	0.5 - 2.5			0.25 - 1			0.25 - 1		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 6			0.5 - 1			0.5 - 1		
Insulation coordination										
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	630	630	1000	320	320	630	320	320	630
Rated surge voltage	[kV]	4	4	4	4	4	4	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	300	-	300	300	-	300
Nominal current	[A]	-	-	-	30	-	30	30	-	30
Connection capacity AWG	AWG	-	-	-	24 - 10	-	24 - 10	24 - 10	-	24 - 10
Approval data (CSA)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	300	-	300	300	-	300
Nominal current	[A]	-	-	-	30	-	10	30	-	10
Connection capacity AWG	AWG	-	-	-	22 - 10	-	22 - 10	22 - 10	-	22 - 10
General data										
Stripping length	[mm]	12			14			14		
Screw thread		M4			M3			M3		
Tightening torque	[Nm]	1.2 - 1.5			0.5 - 0.6			0.5 - 0.6		
Type of insulation material / insulation material group		PA / I			PA / I			PA / I		
Inflammability class according to UL 94		V0			V2			V2		
Drill hole diameter / pin dimensions	[mm]	1.4 / 1 x 0,9 mm			1.3 / 1 x 0,8 mm			1.3 / 1 x 0,8 mm		

No. of pos.
1
1



Feed-through terminal block as PE connection, offset solder pins

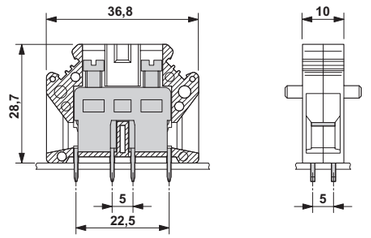


Individual PCB terminal block, horizontal connection direction

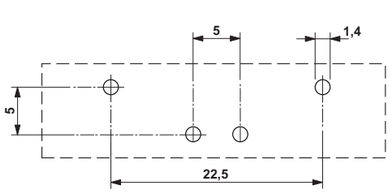


Individual PCB terminal block, vertical connection direction

Dimensional drawing



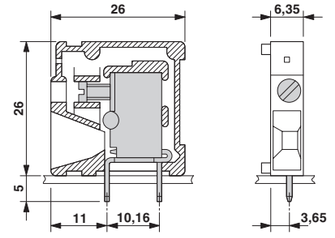
Drilling diagram



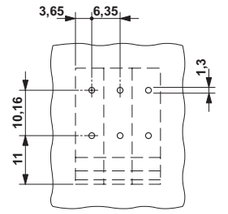
Ordering data

Type	Order No.	Pcs. / Pkt.
10 mm pitch, color: Green-yellow		
KDS10-PE/SO	**1704062**	50

Dimensional drawing



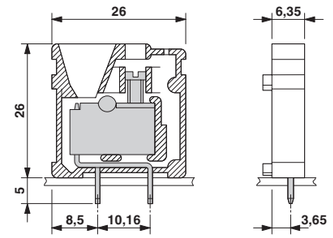
Drilling diagram



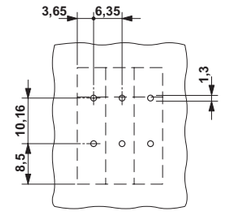
Ordering data

Type	Order No.	Pcs. / Pkt.
6.35 mm pitch, color: Green		
FRONT 4-H-6,35	**1703050**	50

Dimensional drawing



Drilling diagram

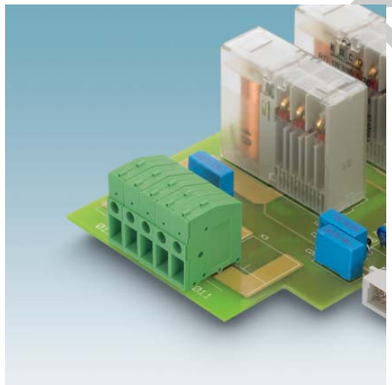


Ordering data

Type	Order No.	Pcs. / Pkt.
6.35 mm pitch, color: Green		
FRONT 4-V-6,35	**1703063**	50

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Front PCB terminal blocks, pitch 6.35/7.62 mm



- Front screw connection terminal blocks up to 6 mm² conductor cross section
- Connection direction of the conductor: Horizontal (0° -H) or vertical (90° -V)
- In the horizontal version, pitch spacers (RZ) are available for adjusting insulation distances

Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.

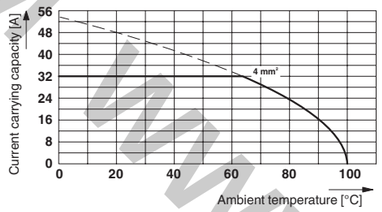
[1]) Please observe the current carrying capacity curves and laboratory data sheets. Further current carrying capacity curves on request.

Accessories

For all types	Type	Page
	Screwdriver **SZS 0,6 x 3,5** **Order No. 1205053**	
	Pitch spacer, width: 5.08 mm **RZ-5,08-FRONT 4-H-7,62** **Order No. 1904011**	
	Marker cards **SK 7,62/3,8**	799

Current carrying capacity curve

Type: FRONT 4-H-7,62
Test following DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5



Technical data

		FRONT 4-H-7,62			FRONT 4-V-7,62		
Technical data in accordance to IEC / DIN VDE							
Rated current / conductor cross section	[A] / [mm²]	32[1]) / 6			32[1]) / 6		
Rated insulation voltage for pollution degree 2	[V]	630			630		
Pitch	[mm]	7.62			7.62		
Connection capacity							
Solid / stranded	[mm²] / [mm²] / AWG	0.5 - 6 / 0.5 - 4 / 20 - 10			0.5 - 6 / 0.5 - 4 / 20 - 10		
Stranded with ferrules without plastic sleeve	[mm²]	0.5 - 4			0.5 - 4		
Stranded with ferrules with plastic sleeve	[mm²]	0.5 - 4			0.5 - 4		
Multi-conductor connection capacity (two conductors with the same cross section)							
Solid / stranded	[mm²]	0.5 - 1.5 / 0.5 - 1.5			0.5 - 1.5 / 0.5 - 1.5		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 1			0.25 - 1		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 1			0.5 - 1		
Insulation coordination							
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	500	630	1000	500	630	1000
Rated surge voltage	[kV]	6	6	6	6	6	6
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	300	-	300	300	-	300
Nominal current	[A]	30	-	30	30	-	30
Connection capacity AWG	AWG	24 - 10	-	24 - 10	24 - 10	-	24 - 10
Approval data (CSA)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	300	-	300	300	-	300
Nominal current	[A]	30	-	10	30	-	10
Connection capacity AWG	AWG	22 - 10	-	22 - 10	22 - 10	-	22 - 10
General data							
Stripping length	[mm]	14			14		
Screw thread		M3			M3		
Tightening torque	[Nm]	0.5 - 0.6			0.5 - 0.6		
Type of insulation material / insulation material group		PA / I			PA / I		
Inflammability class according to UL 94		V0			V0		
Drill hole diameter / pin dimensions	[mm]	1.3 / 1 x 0,8 mm			1.3 / 1 x 0,8 mm		

PCB terminal blocks for power electronics with pitch from 6.35 to 15.0 mm
Special designs with screw connection, KDS 10-, Front 4 series up to 76 A/16 mm²

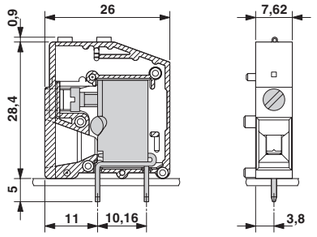


Individual PCB terminal block, horizontal connection direction

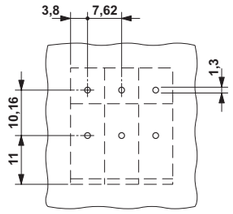


Individual PCB terminal block, vertical connection direction

Dimensional drawing



Drilling diagram

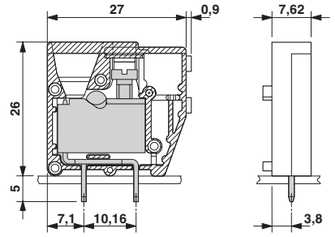


No. of pos.
1

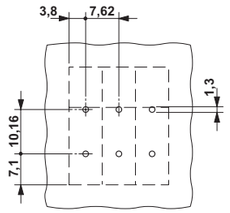
Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
FRONT 4-H-7,62	**1703034**	50

Dimensional drawing



Drilling diagram

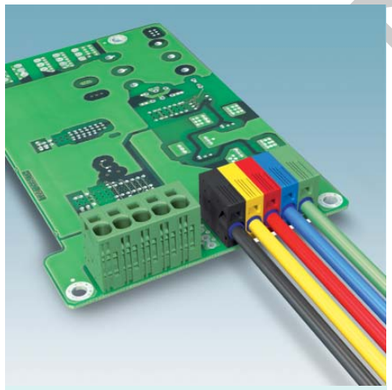


Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
FRONT 4-V-7,62	**1703021**	50

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Horizontal connection direction, pitch 7.5 mm



- Push-in spring-cage PCB terminal blocks SPT 5 for conductor cross sections up to 6 mm², stranded
- Fast connection method thanks to principle of direct plug-in without tools
- Unrestricted 600-V-UL approval thanks to compact zig-zag pinning
- Connection direction of the conductor: Horizontal (0° -H) to the PCB
- Single-position terminal blocks with double pinning

Notes:

When aligning versions with double pinning, other rated insulation voltages can occur.

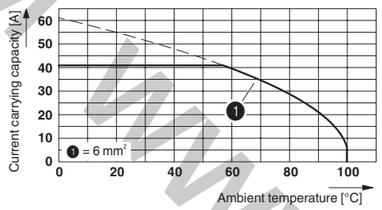
¹) Please observe the current carrying capacity curves and laboratory data sheets. Further current carrying capacity curves on request.

Accessories

For all types	Type	Page
	Screwdriver **SZF 1-0,6 x 3,5** **Order No. 1204517**	
	Marker cards **SK 7,5/3,8**	799
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm² **CRIMPFOX 6** **Order No. 1212034**	
	Pitch spacer RZ-SPT 5-4 H **Order No. 1701534**	

Current carrying capacity curve

Type: SPT 5/...-H-7,5-ZB
Test following DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5



No. of pos.	Dim. a [mm]
1	0.00
2	7.50
3	15.00
4	22.50
5	30.00
6	37.50
7	45.00
8	52.50
9	60.00
10	67.50
11	75.00
12	82.50

Technical data

		SPT 5/ 1-H-7,5			SPT 5/ ...-H-7,5-ZB		
Technical data in accordance to IEC / DIN VDE							
Rated current / conductor cross section	[A] / [mm²]	41¹) / 10			41¹) / 10		
Rated insulation voltage for pollution degree 2	[V]	1000			1000		
Pitch	[mm]	7.5			7.5		
Connection capacity							
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 10 / 0.2 - 6 / 24 - 8			0.2 - 10 / 0.2 - 6 / 24 - 8		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 6			0.25 - 6		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 4			0.25 - 4		
Multi-conductor connection capacity (two conductors with the same cross section)							
Solid / stranded	[mm²]	- / -			- / -		
Stranded with ferrules without plastic sleeve	[mm²]	-			-		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.25 - 1.5			0.25 - 1.5		
Insulation coordination							
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	630	1000	1000	800	1000	1000
Rated surge voltage	[kV]	6	6	6	8	8	6
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	300	150	600	600	600	-
Nominal current	[A]	35	35	5	35	35	-
Connection capacity AWG	AWG	24 - 8	24 - 8	24 - 8	24 - 8	24 - 8	-
Approval data (CSA)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-
General data							
Stripping length	[mm]	15			15		
Type of insulation material / insulation material group		PA / I			PA / I		
Inflammability class according to UL 94		V0			V0		
Drill hole diameter / pin dimensions	[mm]	2.1 / 1,7 x 0,8			2.1 / 1,7 x 0,8		

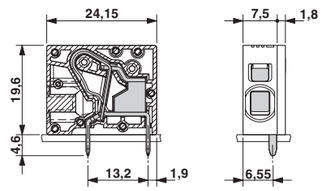


Individual PCB terminal block, double pinning

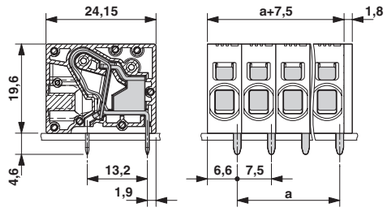


Zigzag pinning
600 V UL approval

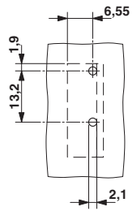
Dimensional drawing



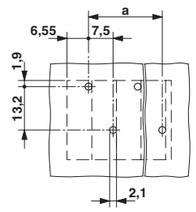
Dimensional drawing



Drilling diagram



Drilling diagram



Ordering data

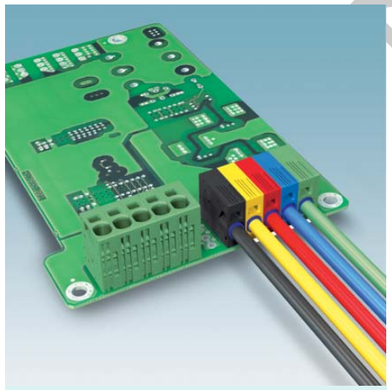
Type	Order No.	Pcs. / Pkt.
7.5 mm pitch, color: Green		
SPT 5/ 1-H-7,5	**1719189**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
7.5 mm pitch, color: Green		
SPT 5/ 2-H-7,5-ZB	**1719192**	50
SPT 5/ 3-H-7,5-ZB	**1719202**	50
SPT 5/ 4-H-7,5-ZB	**1719215**	50
SPT 5/ 5-H-7,5-ZB	**1719228**	50
SPT 5/ 6-H-7,5-ZB	**1719231**	50
SPT 5/ 7-H-7,5-ZB	**1719244**	50
SPT 5/ 8-H-7,5-ZB	**1719257**	50
SPT 5/ 9-H-7,5-ZB	**1719260**	50
SPT 5/10-H-7,5-ZB	**1719273**	50
SPT 5/11-H-7,5-ZB	**1719286**	50
SPT 5/12-H-7,5-ZB	**1719299**	50

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Vertical connection direction, pitch 7.5 mm



- Push-in spring-cage PCB terminal blocks SPT 5 for conductor cross sections up to 6 mm², stranded
- Fast connection method thanks to principle of direct plug-in without tools
- Unrestricted 600-V-UL approval thanks to compact zig-zag pinning
- Connection direction of the conductor: Vertical (90° -V) to the PCB
- Single-position terminal blocks with double pinning

Notes:

When aligning versions with double pinning, other rated insulation voltages can occur.

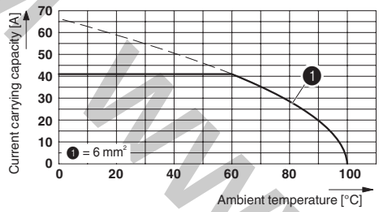
¹) Please observe the current carrying capacity curves and laboratory data sheets. Further current carrying capacity curves on request.

Accessories

For all types	Type	Page
	Screwdriver **SZF 1-0,6 x 3,5 Order No. 1204517**	
	Marker cards **SK 7,5/3,8**	799
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm² **CRIMPFOX 6 Order No. 1212034**	
	Pitch spacer **RZ-SPT 5-4-V Order No. 1701535**	

Current carrying capacity curve

Type: SPT 5/...-V-7,5-ZB
Test following DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5



Technical data

		SPT 5/ 1-V-7,5			SPT 5/ ...-V-7,5-ZB		
Technical data in accordance to IEC / DIN VDE							
Rated current / conductor cross section	[A] / [mm²]	41¹) / 10			41¹) / 10		
Rated insulation voltage for pollution degree 2	[V]	1000			1000		
Pitch	[mm]	7.5			7.5		
Connection capacity							
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 10 / 0.2 - 6 / 24 - 8			0.2 - 10 / 0.2 - 6 / 24 - 8		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 6			0.25 - 6		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 4			0.25 - 4		
Multi-conductor connection capacity (two conductors with the same cross section)							
Solid / stranded	[mm²]	- / -			- / -		
Stranded with ferrules without plastic sleeve	[mm²]	-			-		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.25 - 1.5			0.25 - 1.5		
Insulation coordination							
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	630	1000	1000	800	1000	1000
Rated surge voltage	[kV]	6	6	6	8	8	6
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	300	150	600	600	600	-
Nominal current	[A]	35	35	5	35	35	-
Connection capacity AWG	AWG	24 - 8	24 - 8	24 - 8	24 - 8	24 - 8	-
Approval data (CSA)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-
General data							
Stripping length	[mm]	15			15		
Type of insulation material / insulation material group		PA / I			PA / I		
Inflammability class according to UL 94		V0			V0		
Drill hole diameter / pin dimensions	[mm]	2.1 / 1,7 x 0,8			2.1 / 1,7 x 0,8		

PCB terminal blocks for power electronics with pitch from 6.35 to 15.0 mm
PCB terminal blocks with push-in spring connection, SPT series up to 76 A/16 mm²

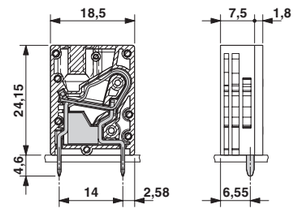


Individual PCB terminal block, double pinning

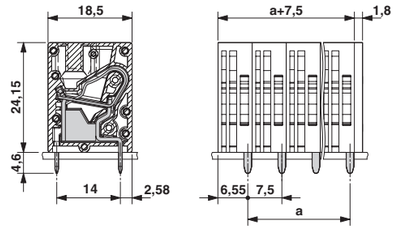


Z pinning, 600 V UL approval

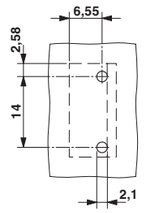
Dimensional drawing



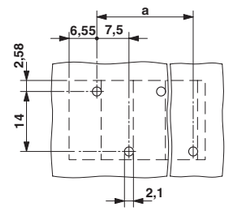
Dimensional drawing



Drilling diagram



Drilling diagram



No. of pos.	Dim. a [mm]
1	0.00
2	7.50
3	15.00
4	22.50
5	30.00
6	37.50
7	45.00
8	52.50
9	60.00
10	67.50
11	75.00
12	82.50

Ordering data

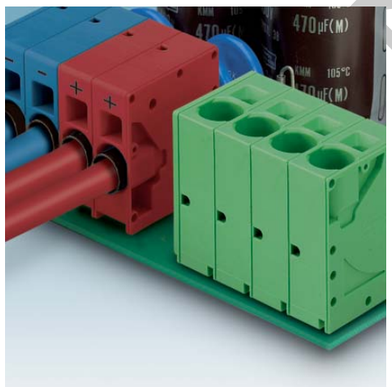
Type	Order No.	Pcs. / Pkt.
7.5 mm pitch, color: Green		
SPT 5/ 1-V-7,5	**1719309**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
7.5 mm pitch, color: Green		
SPT 5/ 2-V-7,5-ZB	**1719312**	50
SPT 5/ 3-V-7,5-ZB	**1719325**	50
SPT 5/ 4-V-7,5-ZB	**1719338**	50
SPT 5/ 5-V-7,5-ZB	**1719341**	50
SPT 5/ 6-V-7,5-ZB	**1719354**	50
SPT 5/ 7-V-7,5-ZB	**1719367**	50
SPT 5/ 8-V-7,5-ZB	**1719370**	50
SPT 5/ 9-V-7,5-ZB	**1719383**	50
SPT 5/10-V-7,5-ZB	**1719396**	50
SPT 5/11-V-7,5-ZB	**1719406**	50
SPT 5/12-V-7,5-ZB	**1719419**	50

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Horizontal connection direction, pitch 10 mm



- SPT 16 PCB terminal block with push-in spring connection for conductor cross sections up to 16 mm² and a current carrying capacity of 76 A
- Fast connection method thanks to principle of direct plug-in without tools
- Unrestricted 600-V-UL approval thanks to compact zigzag pinning
- Connection direction of the conductor: Horizontal (0° -H) to the PCB
- Terminal blocks that can be lined up next to each other for color coding from position to position
- Single-position terminal blocks with double pinning

Notes:

When aligning versions with double pinning, other rated insulation voltages can occur.

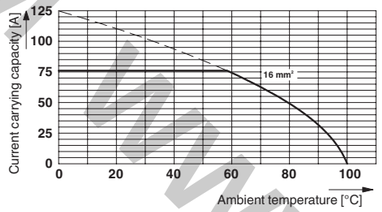
¹) Please observe the current carrying capacity curves and laboratory data sheets. Further current carrying capacity curves on request.

Accessories

For all types	Type	Page
	Marker strips **SK 5,0 WH:REEL** **Order No. 0805221**	801
	Screwdriver **SZF 2-0,8 x4,0** **Order No. 1204520**	
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm² **CRIMPFOX 6** **Order No. 1212034**	
	Crimping pliers for 10 to 16 mm² **CRIMPFOX 16 S** **Order No. 1207983**	

Current carrying capacity curve

Type: SPT 16/...-H-10,0-ZB
Test based on DIN EN 60512-5-2:2003-01
Reduction factor = 1
Number of positions: 5



Technical data

		SPT 16/ 1-H-10,0			SPT 16/ ...-H-10,0-ZB		
Technical data in accordance to IEC / DIN VDE							
Rated current / conductor cross section	[A] / [mm²]	76¹) / 16			76¹) / 16		
Rated insulation voltage for pollution degree 2	[V]	1000			1000		
Pitch	[mm]	10			10		
Connection capacity							
Solid & multi-strand / stranded	[mm²] / [mm²] / AWG	0.75 - 16 / 0.75 - 16 / 20 - 4			0.75 - 16 / 0.75 - 16 / 20 - 4		
Stranded with ferrules without plastic sleeve	[mm²]	0.75 - 16			0.75 - 16		
Stranded with ferrules with plastic sleeve	[mm²]	0.75 - 10			0.75 - 10		
Multi-conductor connection capacity (two conductors with the same cross section)							
Solid & multi-strand / stranded	[mm²]	- / -			- / -		
Stranded with ferrules without plastic sleeve	[mm²]	-			-		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.75 - 4			0.75 - 4		
Insulation coordination							
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	1000	1000	1000	1000	1000	1000
Rated surge voltage	[kV]	8	8	6	8	8	6
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	300	150	300	600	600	-
Nominal current	[A]	66	66	10	66	66	-
Connection capacity AWG	AWG	20 - 4	20 - 4	20 - 4	20 - 4	20 - 4	-
Approval data (CSA)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-
General data							
Stripping length	[mm]	18			18		
Type of insulation material / insulation material group		PA / I			PA / I		
Inflammability class according to UL 94		V0			V0		
Drill hole diameter / pin dimensions	[mm]	1.7 / 1,2 x 1 mm			1.7 / 1,2 x 1 mm		

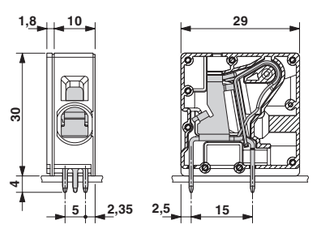


Individual PCB terminal block, double pinning

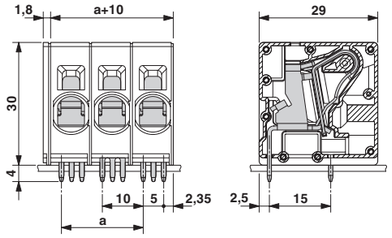


Z pinning, 600 V UL approval

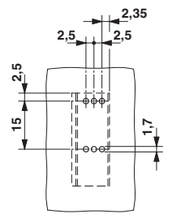
Dimensional drawing



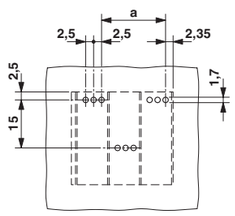
Dimensional drawing



Drilling diagram



Drilling diagram



No. of pos.	Dim. a [mm]
1	0.00
2	10.00
3	20.00
4	30.00
5	40.00
6	50.00
7	60.00
8	70.00
9	80.00

Ordering data

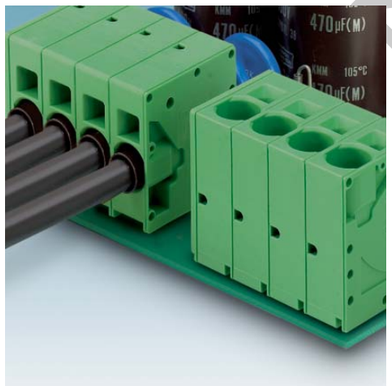
Type	Order No.	Pcs. / Pkt.
10 mm pitch, color: Green		
SPT 16/ 1-H-10,0	**1735778**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
10 mm pitch, color: Green		
SPT 16/ 2-H-10,0-ZB	**1735781**	50
SPT 16/ 3-H-10,0-ZB	**1735794**	50
SPT 16/ 4-H-10,0-ZB	**1735804**	50
SPT 16/ 5-H-10,0-ZB	**1735817**	50
SPT 16/ 6-H-10,0-ZB	**1735820**	50
SPT 16/ 7-H-10,0-ZB	**1735833**	50
SPT 16/ 8-H-10,0-ZB	**1735846**	50
SPT 16/ 9-H-10,0-ZB	**1735859**	50

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Vertical connection direction, pitch 10 mm



- SPT 16 PCB terminal block with push-in spring connection for conductor cross sections up to 16 mm² and a current carrying capacity of 76 A
- Fast connection method thanks to principle of direct plug-in without tools
- Unrestricted 600-V-UL approval thanks to compact zig-zag pinning
- Connection direction of the conductor: Horizontal (90° -V) to the PCB
- Single-position terminal blocks with double pinning
- Additional versions with anti-rotation protection for clear positioning during PCB assembly

Notes:

When aligning versions with double pinning, other rated insulation voltages can occur.

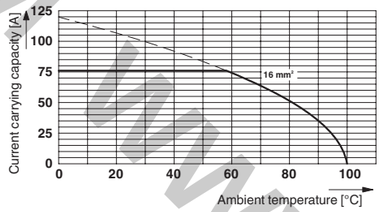
¹) Please observe the current carrying capacity curves and laboratory data sheets. Further current carrying capacity curves on request.

Accessories

For all types	Type	Page
	Marker strips **SK 5,0 WH:REEL** **Order No. 0805221**	801
	Screwdriver **SZF 2-0,8 x4,0** **Order No. 1204520**	
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm² **CRIMPFOX 6** **Order No. 1212034**	
	Crimping pliers for 10 to 16 mm² **CRIMPFOX 16 S** **Order No. 1207983**	

Current carrying capacity curve

Type: SPT 16/...-V-10,0-ZB
Test based on DIN EN 60512-5-2:2003-01
Reduction factor = 1
Number of positions: 5



Technical data

		SPT 16/ 1-V-10,0			SPT 16/ ...-V-10,0-ZB		
Technical data in accordance to IEC / DIN VDE							
Rated current / conductor cross section	[A] / [mm²]	76¹) / 16			76¹) / 16		
Rated insulation voltage for pollution degree 2	[V]	1000			1000		
Pitch	[mm]	10			10		
Connection capacity							
Solid & multi-strand / stranded	[mm²] / [mm²] / AWG	0.75 - 16 / 0.75 - 16 / 20 - 4			0.75 - 16 / 0.75 - 16 / 20 - 4		
Stranded with ferrules without plastic sleeve	[mm²]	0.75 - 16			0.75 - 16		
Stranded with ferrules with plastic sleeve	[mm²]	0.75 - 10			0.75 - 10		
Multi-conductor connection capacity (two conductors with the same cross section)							
Solid & multi-strand / stranded	[mm²]	- / -			- / -		
Stranded with ferrules without plastic sleeve	[mm²]	-			-		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.75 - 4			0.75 - 4		
Insulation coordination							
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	1000	1000	1000	1000	1000	1000
Rated surge voltage	[kV]	8	8	6	8	8	6
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	300	150	300	600	600	-
Nominal current	[A]	66	66	10	66	66	-
Connection capacity AWG	AWG	20 - 4	20 - 4	20 - 4	20 - 4	20 - 4	-
Approval data (CSA)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-
General data							
Stripping length	[mm]	18			18		
Type of insulation material / insulation material group		PA / I			PA / I		
Inflammability class according to UL 94		V0			V0		
Drill hole diameter / pin dimensions	[mm]	1.7 / 1,2 x 1 mm			1.7 / 1,2 x 1 mm		

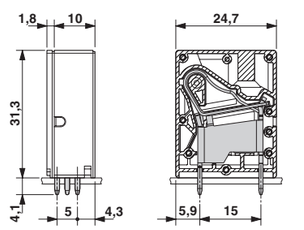


Individual PCB terminal block, double pinning

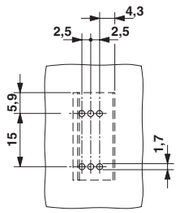


Z pinning, 600 V UL approval

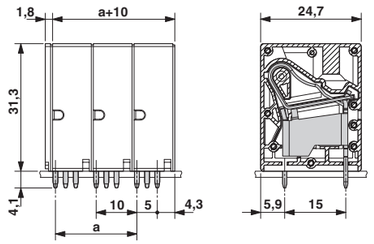
Dimensional drawing



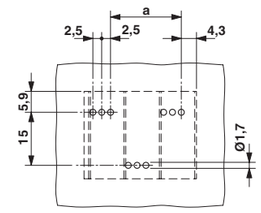
Drilling diagram



Dimensional drawing



Drilling diagram



No. of pos.	Dim. a [mm]
1	0.00
2	10.00
3	20.00
4	30.00
5	40.00
6	50.00
7	60.00
8	70.00
9	80.00
2	10.00

Ordering data

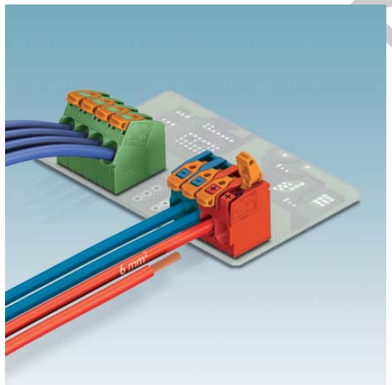
Type	Order No.	Pcs. / Pkt.
10 mm pitch, color: Green		
SPT 16/ 1-V-10,0	**1735862**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
10 mm pitch, color: Green		
SPT 16/ 2-V-10,0-ZB	**1735875**	50
SPT 16/ 3-V-10,0-ZB	**1735888**	50
SPT 16/ 4-V-10,0-ZB	**1735891**	50
SPT 16/ 5-V-10,0-ZB	**1735901**	50
SPT 16/ 6-V-10,0-ZB	**1735914**	50
SPT 16/ 7-V-10,0-ZB	**1735927**	50
SPT 16/ 8-V-10,0-ZB	**1735930**	50
SPT 16/ 9-V-10,0-ZB	**1735943**	50
10 mm pitch, color: green, with anti-rotation pins, drilling diagram, and dimensional drawing, see www.phoenixcontact.net/products		
SPT 16/ 2-V-10,0-ZBV GN	**1775356**	50

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Horizontal and angled connection direction, pitch 7.5 mm



- PLH 5 and PLA 5 PCB terminal block with push-lock spring connection with lever operation for conductor cross sections up to 6 mm² and a current carrying capacity of up to 41 A
- Fast connection method thanks to the toolless "One-hand tilting lever principle" or the direct plug-in method
- Low actuation forces
- Unlimited 600 V UL approval already available with 7.5 mm pitch with zigzag pinning
- Position to position color coding is possible thanks to terminal blocks, which can be lined up next to each other, and tilting lever colors
- Integrated touch connection
- Supplied open

Notes:

When aligning versions with double pinning, other rated insulation voltages can occur.

When ferrules are used for 6 mm² conductor sizes, crimp with CRIMPFOX 6 (see accessories).

1) UL/CUL on request.

2) Please observe the current carrying capacity curves and laboratory data sheets. Current carrying capacity curves can be found at **www.phoenixcontact.net/products**.

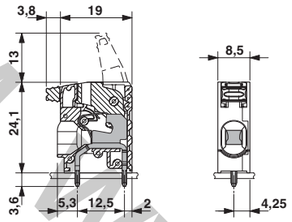
Accessories

For all types	Type	Page
	Marker cards SK U/3,8 WH: UNPRINTED **Order No. 0803906**	
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm² **CRIMPFOX 6 Order No. 1212034**	

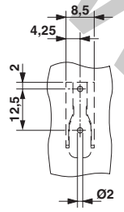


Individual PCB terminal block, horizontal connection direction, double pinning

Dimensional drawing



Drilling diagram



Ordering data

No. of pos.	Dim. a [mm]
1	0.00
2	7.50
3	15.00
4	22.50
5	30.00
6	37.50
7	45.00
8	52.50
9	60.00
10	67.50
11	75.00
12	82.50

Type	Order No.	Pcs. / Pkt.
7.5 mm pitch, color: Green		
PLH 5/ 1-7,5	**1792096**	25

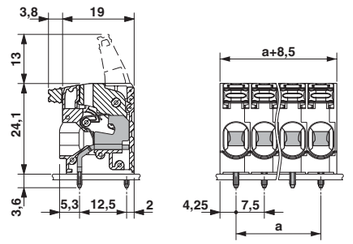
Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	41²) / 6		
Rated insulation voltage for pollution degree 2	[V]	1000		
Pitch	[mm]	7.5		
Connection capacity				
Solid & multi-strand / stranded	[mm²] / [mm²] / AWG	0.2 - 6 / 0.2 - 6 / 24 - 10		
Stranded with ferrules without plastic sleeve	[mm²]	0.2 - 6		
Stranded with ferrules with plastic sleeve	[mm²]	0.2 - 6		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid & multi-strand / stranded	[mm²]	- / -		
Stranded with ferrules without plastic sleeve	[mm²]	-		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 2.5		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	1000	1000	1000
Rated surge voltage	[kV]	8	8	8
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Stripping length	[mm]	12		
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	2 / 1,2 x 1,5 mm		

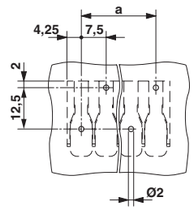


Horizontal connection direction, zig-zag pinning, 600 V UL approval

Dimensional drawing



Drilling diagram



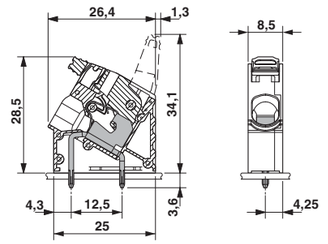
Ordering data

Type	Order No.	Pcs. / Pkt.
7.5 mm pitch, color: Green		
PLH 5/ 2-7,5-ZF	**1792106**	25
PLH 5/ 3-7,5-ZF	**1792119**	25
PLH 5/ 4-7,5-ZF	**1792122**	25
PLH 5/ 5-7,5-ZF	**1792135**	25
PLH 5/ 6-7,5-ZF	**1792148**	25
PLH 5/ 7-7,5-ZF	**1792151**	25
PLH 5/ 8-7,5-ZF	**1792164**	25
PLH 5/ 9-7,5-ZF	**1792177**	25
PLH 5/10-7,5-ZF	**1792180**	25
PLH 5/11-7,5-ZF	**1792193**	25
PLH 5/12-7,5-ZF	**1792203**	25

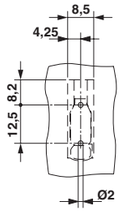


Individual PCB terminal block, 30° angled connection direction, double pinning

Dimensional drawing



Drilling diagram



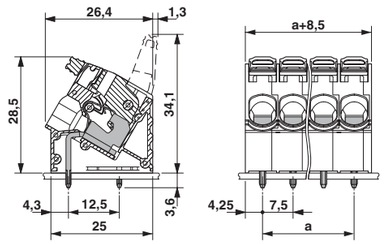
Ordering data

Type	Order No.	Pcs. / Pkt.
7.5 mm pitch, color: Green		
PLA 5/ 1-7,5	**1792216**	25

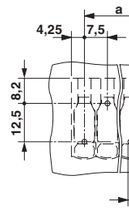


30° angled connection direction, zig-zag pinning, 600 V UL approval

Dimensional drawing



Drilling diagram



Ordering data

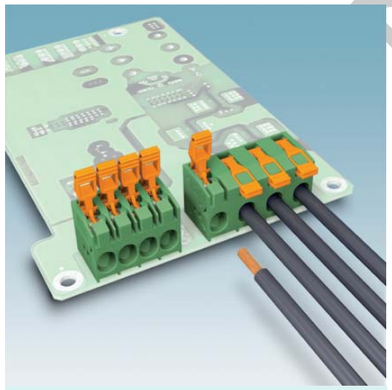
Type	Order No.	Pcs. / Pkt.
7.5 mm pitch, color: Green		
PLA 5/ 2-7,5-ZF	**1792229**	25
PLA 5/ 3-7,5-ZF	**1792232**	25
PLA 5/ 4-7,5-ZF	**1792245**	25
PLA 5/ 5-7,5-ZF	**1792258**	25
PLA 5/ 6-7,5-ZF	**1792261**	25
PLA 5/ 7-7,5-ZF	**1792274**	25
PLA 5/ 8-7,5-ZF	**1792287**	25
PLA 5/ 9-7,5-ZF	**1792290**	25
PLA 5/10-7,5-ZF	**1792300**	25
PLA 5/11-7,5-ZF	**1792313**	25
PLA 5/12-7,5-ZF	**1792326**	25

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Horizontal connection direction up to 10/15 mm pitch

Notes:

[1]) Please observe the current carrying capacity curves and laboratory data sheets. Further current carrying capacity curves on request.



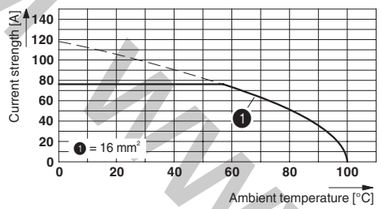
- PLH 16 terminal block with push-lock spring connection with lever operation for conductor cross sections up to 16 mm² and a current carrying capacity of up to 76 A
- Low actuation forces
- Fast connection method thanks to the toolless "One-hand tilting lever principle" or the direct plug-in method
- Unrestricted 600 V-UL approval already available with a 10 mm pitch with zig-zag pinning
- Touch connection for integration in the center of the lever
- Color coding from position to position thanks to terminal blocks that can be mounted side by side
- Supplied open

Accessories

For all types	Type	Page
	Marker cards SK U/3,8 WH: UNPRINTED **Order No. 0803906**	
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm² **CRIMPFOX 6 Order No. 1212034**	
	Crimping pliers for 10 to 16 mm² **CRIMPFOX 16 S Order No. 1207983**	

Current carrying capacity curve

Type: PLH 16/...-10
Tested in accordance with DIN EN 60512-5-2:2003-01
No. of positions: 5
Conductor cross section: 16 mm²



Technical data

		PLH 16/ ...-10			PLH 16/ ...-10-ZF			PLH 16/ ...-15		
Technical data in accordance to IEC / DIN VDE										
Rated current / conductor cross section	[A] / [mm²]	76[1]) / 16			76[1]) / 16			76[1]) / 16		
Rated insulation voltage for pollution degree 2	[V]	400			1000			1000		
Pitch	[mm]	10			10			15		
Connection capacity										
Solid & multi-strand / stranded	[mm²] / [mm²] / AWG	0.75 - 16 / 0.75 - 16 / 18 - 4			0.75 - 16 / 0.75 - 16 / 18 - 4			0.75 - 16 / 0.75 - 16 / 18 - 4		
Stranded with ferrules without plastic sleeve	[mm²]	0.75 - 16			0.75 - 16			0.75 - 16		
Stranded with ferrules with plastic sleeve	[mm²]	0.75 - 10			0.75 - 10			0.75 - 10		
Multi-conductor connection capacity (two conductors with the same cross section)										
Solid & multi-strand / stranded	[mm²]	- / -			- / -			- / -		
Stranded with ferrules without plastic sleeve	[mm²]	-			-			-		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.75 - 4			0.75 - 4			0.75 - 4		
Insulation coordination										
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	400	400	800	1000	1000	1000	1000	1000	1000
Rated surge voltage	[kV]	4	4	4	8	8	8	8	8	8
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	300	300	-	600	600	-	600	600	-
Nominal current	[A]	51	51	-	51	51	-	66	66	-
Connection capacity AWG	AWG	18 - 6	18 - 6	-	18 - 6	18 - 6	-	18 - 4	18 - 4	-
Approval data (CSA)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-	-	-	-
General data										
Stripping length	[mm]	18			18			18		
Type of insulation material / insulation material group		PA / I			PA / I			PA / I		
Inflammability class according to UL 94		V0			V0			V0		
Drill hole diameter / pin dimensions	[mm]	1.6 / 1,2 x 1,2 mm			1.6 / 1,2 x 1,2 mm			1.6 / 1,2 x 1,2 mm		

No. of pos.	Dim. a [mm]
1	
2	10.00
3	20.00
4	30.00
5	40.00
6	50.00
7	60.00
8	70.00
2	15.00
3	30.00
4	45.00
5	60.00
6	75.00
7	90.00
8	105.00

PCB terminal blocks for power electronics with pitch from 6.35 to 15.0 mm
PCB terminal blocks with push-lock spring connection, PL series up to 76 A/16 mm²



Double pinning, 10 mm pitch

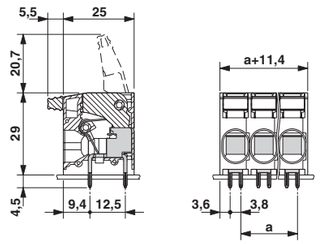


600 V UL approval, Z pinning, 10 mm pitch

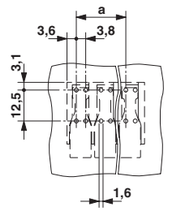


600 V UL approval, double pinning, 15 mm pitch

Dimensional drawing



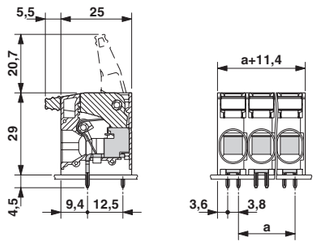
Drilling diagram



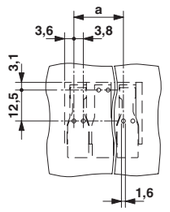
Ordering data

Type	Order No.	Pcs. / Pkt.
10 mm pitch, color: Green		
PLH 16/ 1-10	**1703995**	25
PLH 16/ 2-10	**1770393**	25
PLH 16/ 3-10	**1770403**	25
PLH 16/ 4-10	**1770416**	25
PLH 16/ 5-10	**1770429**	25
PLH 16/ 6-10	**1770432**	25
PLH 16/ 7-10	**1770445**	25
PLH 16/ 8-10	**1770458**	25

Dimensional drawing



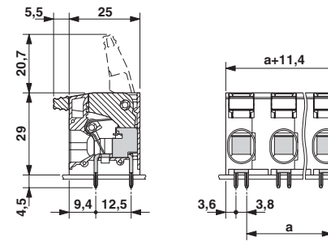
Drilling diagram



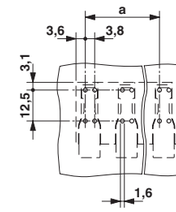
Ordering data

Type	Order No.	Pcs. / Pkt.
10 mm pitch, color: Green		
PLH 16/ 2-10-ZF	**1770461**	25
PLH 16/ 3-10-ZF	**1770474**	25
PLH 16/ 4-10-ZF	**1770487**	25
PLH 16/ 5-10-ZF	**1770490**	25
PLH 16/ 6-10-ZF	**1770500**	25
PLH 16/ 7-10-ZF	**1770513**	25
PLH 16/ 8-10-ZF	**1770526**	25

Dimensional drawing



Drilling diagram



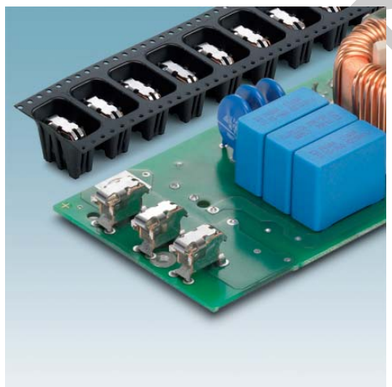
Ordering data

Type	Order No.	Pcs. / Pkt.
15 mm pitch, color: Green		
PLH 16/ 2-15	**1770539**	25
PLH 16/ 3-15	**1770542**	25
PLH 16/ 4-15	**1770555**	25
PLH 16/ 5-15	**1770568**	25
PLH 16/ 6-15	**1770571**	25
PLH 16/ 7-15	**1770584**	25
PLH 16/ 8-15	**1770597**	25

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PCB terminal blocks with push-lock spring connection for the reflow process, PTSPL series up to 41 A/6 mm²

Horizontal connection direction without insulating housing



- PTSPL 6 push-lock spring-cage PCB terminal block without insulating body for conductor cross sections up to 6 mm² and a current carrying capacity of up to 41 A
- For use in SMT reflow processes
- Low actuation forces
- Delivery form: tape-on-reel packing according to IEC 60286-3 for automated mounting; 330 mm reel diameter
- PTSPL spring closed for assembly with vacuum pipette
- PTSPLO spring opened for assembly with mechanical gripper
- Standard pin lengths of 2.1 mm and 2.9 mm

Notes:

Pick and place pads for taped THR articles usually protrude beyond the components. The PCB layout must ensure that collisions are avoided when components are assembled. Dimensional drawings of tape reels and place pads can be found online at **www.phoenixcontact.net/products**.

[1]) UL/CUL on request.

[2]) Please observe the current carrying capacity curves and laboratory data sheets. Current carrying capacity curves can be found at **www.phoenixcontact.net/products**.

Accessories

For all types	Type	Page
	Screwdriver **SZF 1-0,6 x 3,5** **Order No. 1204517**	
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm² **CRIMPFOX 6** **Order No. 1212034**	

Technical data

		PTSPL-6/1-2X2 2,1			PTSPLO-6/1-2X2 2,1		
Technical data in accordance to IEC / DIN VDE							
Rated current / conductor cross section	[A] / [mm²]	41[2]) / 6			41[2]) / 6		
Rated insulation voltage for pollution degree 2	[V]	-			-		
Pitch	[mm]	-			-		
Connection capacity							
Solid & multi-strand / stranded	[mm²] / [mm²] / AWG	- / 2.5 - 6 / -			- / 2.5 - 6 / -		
Stranded with ferrules without plastic sleeve	[mm²]	2.5 - 6			2.5 - 6		
Stranded with ferrules with plastic sleeve	[mm²]	-			-		
Multi-conductor connection capacity (two conductors with the same cross section)							
Solid & multi-strand / stranded	[mm²]	- / -			- / -		
Stranded with ferrules without plastic sleeve	[mm²]	-			-		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	-			-		
Insulation coordination							
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]						
Rated surge voltage	[kV]						
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-
Approval data (CSA)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-
General data							
Stripping length	[mm]	15			15		
Type of insulation material / insulation material group		- / -			- / -		
Inflammability class according to UL 94		-			-		
Drill hole diameter / pin dimensions	[mm]	1.3 / 0,6 x 1			1.3 / 0,6 x 1		

PCB terminal blocks with push-lock spring connection for the reflow process, PTSPL series up to 41 A/6 mm²



N

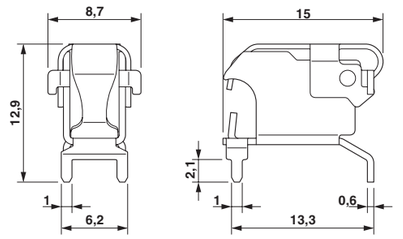
Closed on delivery, tape-on-reel packing



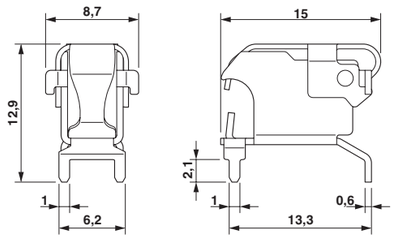
N

Open on delivery, individual PCB terminal block without insulating body, tape-on-reel packing

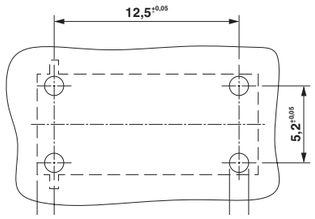
Dimensional drawing



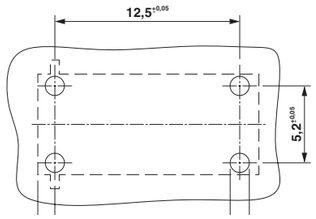
Dimensional drawing



Drilling diagram



Drilling diagram



No. of pos.

Ordering data

Type	Order No.	Pcs. / Pkt.
PCB terminal block closed, pin length 2.1 mm		
PTSPL-6/1-2X2 2,1 R32	**1704836**	240
PCB terminal block closed, pin length 2.9 mm		
PTSPL-6/1-2X2 2,9 R32	**1704837**	240

Ordering data

Type	Order No.	Pcs. / Pkt.
PCB terminal block open, pin length 2.1 mm		
PTSPLO-6/1-2X2 2,1 R32	**1705081**	220
Open PCB terminal block, pin length 2.9 mm		
PTSPLO-6/1-2X2 2,9 R32	**1705085**	220

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Angled connection direction, pitch 7.5 mm



- PCB terminal blocks with spring-cage connection up to 6 mm² conductor cross section
- Fully insulated bridges (FBSK) with different number of positions, e. g. for potential distribution
- Integrated test connection
- Pitch spacers (RZ) for voltage expansion
- Optional mounting flange (FL) for safe mounting in the device
- Colored marking of individual positions is possible
- A ZFKDSA end terminal block must be used at the end of a row of terminal blocks

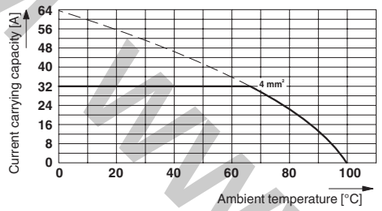
Notes:
In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.
The current carrying capacity of the FBSK-ZFKDS 4 plug-in bridge is 20 A (see laboratory data sheet).
1) Please observe the current carrying capacity curves and laboratory data sheets. Further current carrying capacity curves on request.

Accessories

For all types	Type	Page
	Pitch spacer, width: 2.5 mm **RZ-ZFKDS 4 Order No. 1928521**	
	Pair of flanges **FL-ZFKDS 4 Order No. 1928495**	
	Marker cards **SK 7,5/5 or SK10/5**	800
	Flat Zack marker strip **ZBF 7,5 or ZBF 10**	807
	Crimping pliers for 0.25 to 6 mm² **CRIMPFOX 6 Order No. 1212034**	
Only for ZFKDS 4...		
	Plug-in bridge **FBSK...**	830

Current carrying capacity curve

Type: ZFKDS 4-7,5 and ZFKDSA 4-9
Test following DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5



Technical data

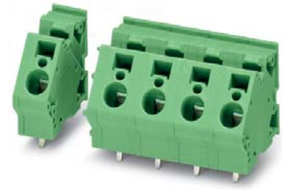
		ZFKDS 4- 7,5			ZFKDS 4-10		
Technical data in accordance to IEC / DIN VDE							
Rated current / conductor cross section	[A] / [mm²]	32¹) / 6			32¹) / 6		
Rated insulation voltage for pollution degree 2	[V]	630			630		
Pitch	[mm]	7.5			10		
Connection capacity							
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 6 / 0.2 - 4 / 24 - 10			0.2 - 6 / 0.2 - 4 / 24 - 10		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 4			0.25 - 4		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 4			0.25 - 4		
Multi-conductor connection capacity (two conductors with the same cross section)							
Solid / stranded	[mm²]	- / -			- / -		
Stranded with ferrules without plastic sleeve	[mm²]	-			-		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	-			-		
Insulation coordination							
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	500	630	1000	630	630	1000
Rated surge voltage	[kV]	6	6	6	6	6	6
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	300	150	300	300	300	600
Nominal current	[A]	30	30	10	30	30	5
Connection capacity AWG	AWG	24 - 10	24 - 10	24 - 10	24 - 10	24 - 10	24 - 10
Approval data (CSA)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-
General data							
Stripping length	[mm]	10			10		
Type of insulation material / insulation material group		PA / I			PA / I		
Inflammability class according to UL 94		V0			V0		
Drill hole diameter / pin dimensions	[mm]	1.8 / 1,0 x 1,4 mm			1.8 / 1,0 x 1,4 mm		

No. of pos.
1
1
1

PCB terminal blocks for power electronics with pitch from 6.35 to 15.0 mm
PCB terminal blocks with spring-cage connection, ZFKDS series up to 76 A/16 mm²

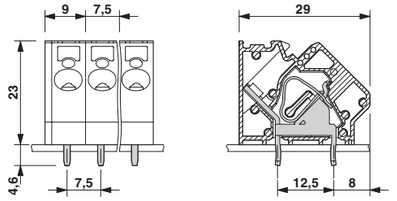


7.5 mm pitch, with test connection, bridgeable

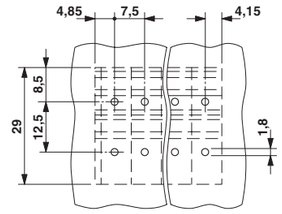


10 mm pitch, with test connection, bridgeable

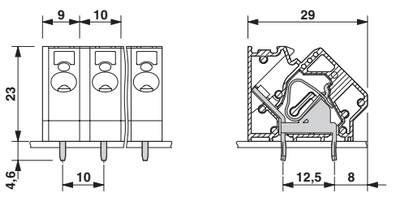
Dimensional drawing



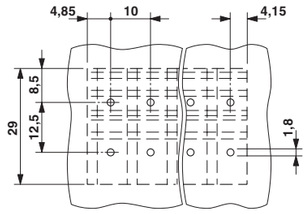
Drilling diagram



Dimensional drawing



Drilling diagram



Ordering data

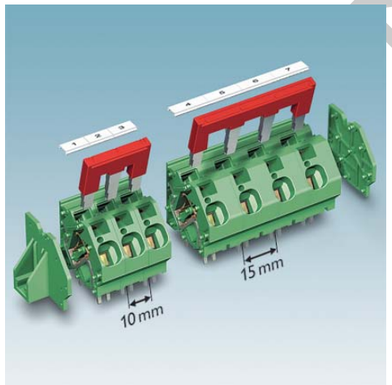
Type	Order No.	Pcs. / Pkt.
7.5 mm pitch, color: Green		
ZFKDS 4- 7,5	**1907526**	50
End terminal block, 9 mm wide, required at the end of a terminal row		
ZFKDSA 4- 9	**1907542**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
10 mm pitch, color: Green		
ZFKDS 4-10	**1907539**	50
End terminal block, 9 mm wide, required at the end of a terminal row		
ZFKDSA 4- 9	**1907542**	50

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Angled connection direction, pitch 10 mm



- PCB terminal blocks with spring-cage connection up to 0.02 in² conductor cross section
- 15 mm pitch for the unrestricted 600-V-UL approval
- Fully insulated bridges (FBSK) with different number of positions, e. g. for potential distribution
- Integrated test connection
- Optional mounting flange (FL) for safe mounting in the device
- Colored marking of individual positions is possible
- A ZFKDSA end terminal block must be used at the end of a row of terminal blocks

Notes:

In order to avoid tolerances between the terminal blocks and PCB, the terminal row should be interrupted when the number of positions exceeds 30.

The current carrying capacity of the FBSK-ZFKDS 10 plug-in bridge is 57 A (see laboratory data sheet).

1) When the bridge is used, the voltage is reduced to 800 V.

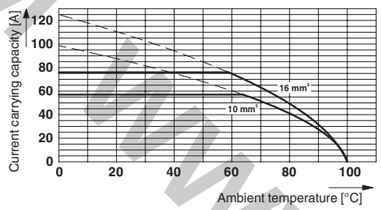
2) Please observe the current carrying capacity curves and laboratory data sheets. Further current carrying capacity curves on request.

Accessories

For all types	Type	Page
	Pair of flanges **FL-ZFKDS 10** **Order No. 1987070**	
	Screwdriver **SZF 3-1,0 x 5,5** **Order No. 1206612**	
	Marker strips **SK 5,0 WH:REEL** **Order No. 0805221**	801
	Crimping pliers for 0.25 to 6 mm² **CRIMPFOX 6** **Order No. 1212034**	
	Crimping pliers for 10 to 16 mm² **CRIMPFOX 16 S** **Order No. 1207983**	
Only for ZFKDS 10-...		
	Plug-in bridge **FBSK.../ZFKDS 10**	830

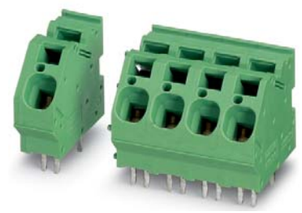
Current carrying capacity curve

Type: ZFKDS 10-10,00 and ZFKDSA 10-11,7
Test following DIN EN 60512-5-2:2003-01
Reduction factor = 1
No. of positions: 5



Technical data

		ZFKDS 10-10,00			ZFKDS 10-15,00		
Technical data in accordance to IEC / DIN VDE							
Rated current / conductor cross section	[A] / [mm²]	76²) / 16			76²) / 16		
Rated insulation voltage for pollution degree 2	[V]	400			1000¹)		
Pitch	[mm]	10			15		
Connection capacity							
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 16 / 0.2 - 16 / 24 - 6			0.2 - 16 / 0.2 - 16 / 24 - 6		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 10			0.25 - 10		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 10			0.25 - 10		
Multi-conductor connection capacity (two conductors with the same cross section)							
Solid / stranded	[mm²]	- / -			- / -		
Stranded with ferrules without plastic sleeve	[mm²]	-			-		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	-			-		
Insulation coordination							
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	320	400	800	1000¹)	1000¹)	1000¹)
Rated surge voltage	[kV]	4	4	4	8	8	8
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	300	150	300	600	600	-
Nominal current	[A]	65	65	10	65	65	-
Connection capacity AWG	AWG	24 - 6	24 - 6	24 - 6	24 - 6	24 - 6	-
Approval data (CSA)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-
General data							
Stripping length	[mm]	12			12		
Type of insulation material / insulation material group		PA / I			PA / I		
Inflammability class according to UL 94		V0			V0		
Drill hole diameter / pin dimensions	[mm]	2.2 / 1,2 x 1,4			2.2 / 1,2 x 1,4		

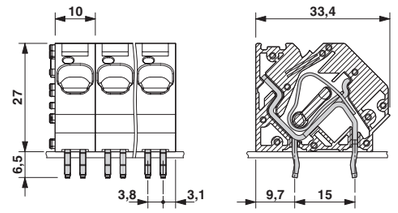


10 mm pitch, with test connection, bridgeable

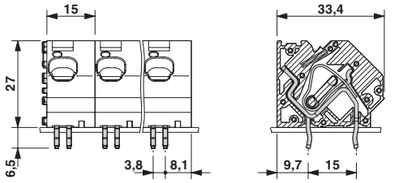


15 mm pitch, with test connection, bridgeable, 600 V UL approval

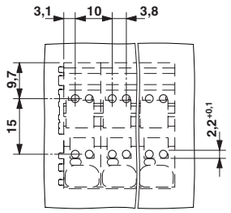
Dimensional drawing



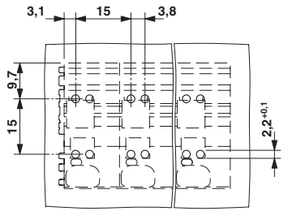
Dimensional drawing



Drilling diagram



Drilling diagram

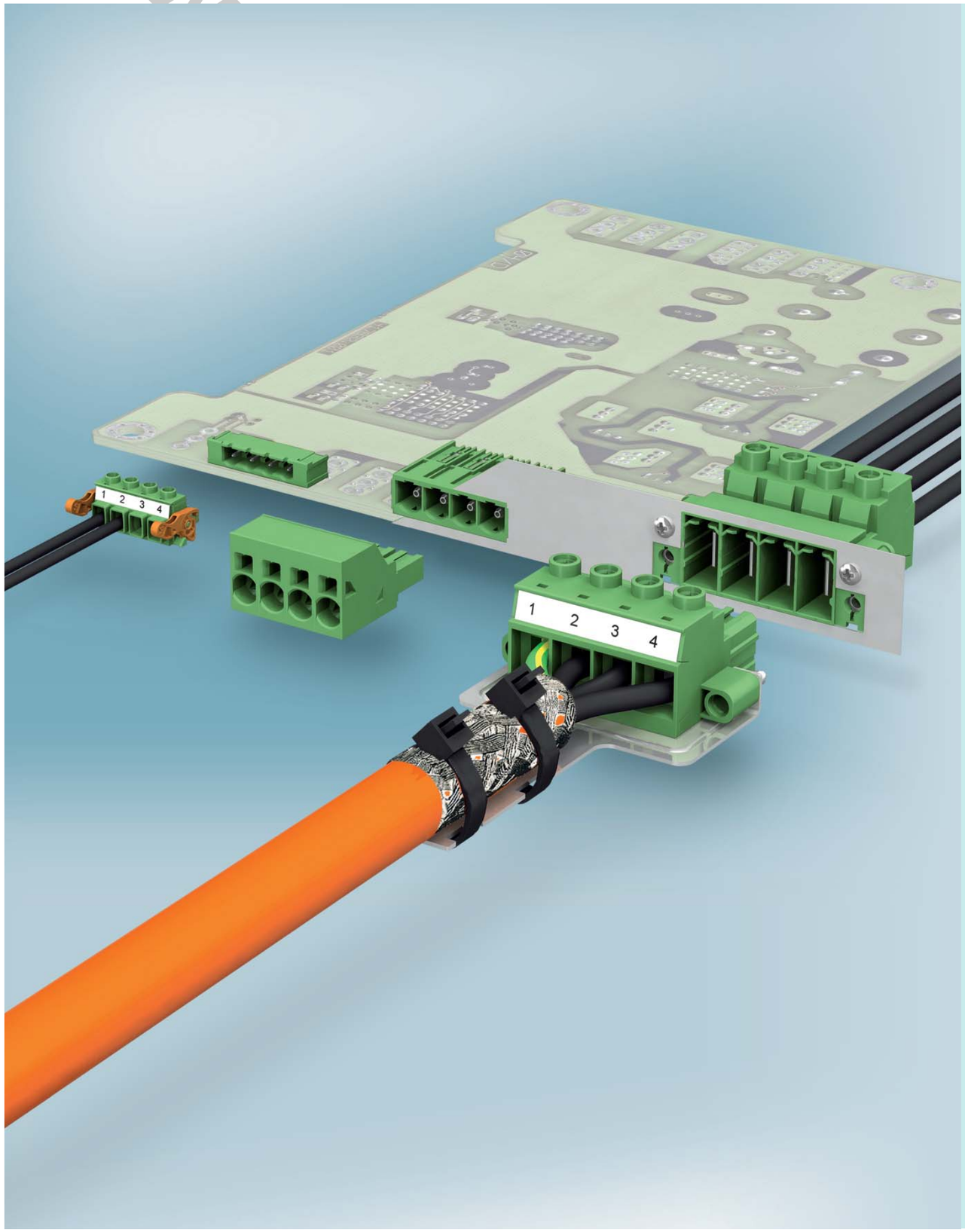


No. of pos.	Order No.	Pcs. / Pkt.
	10 mm pitch, color: Green	
1	**ZFKDS 10-10,00** **1986628**	50
1		
	End terminal block, 11.7 mm wide, required at the end of a terminal row	
1	**ZFKDSA 10-11,7** **1987054**	50
1		

Ordering data

Type	Order No.	Pcs. / Pkt.
15 mm pitch, color: Green		
ZFKDS 10-15,00	**1986631**	50
End terminal block, 16.7 mm wide, required at the end of a terminal row,		
ZFKDSA 10-16,7	**1987067**	50

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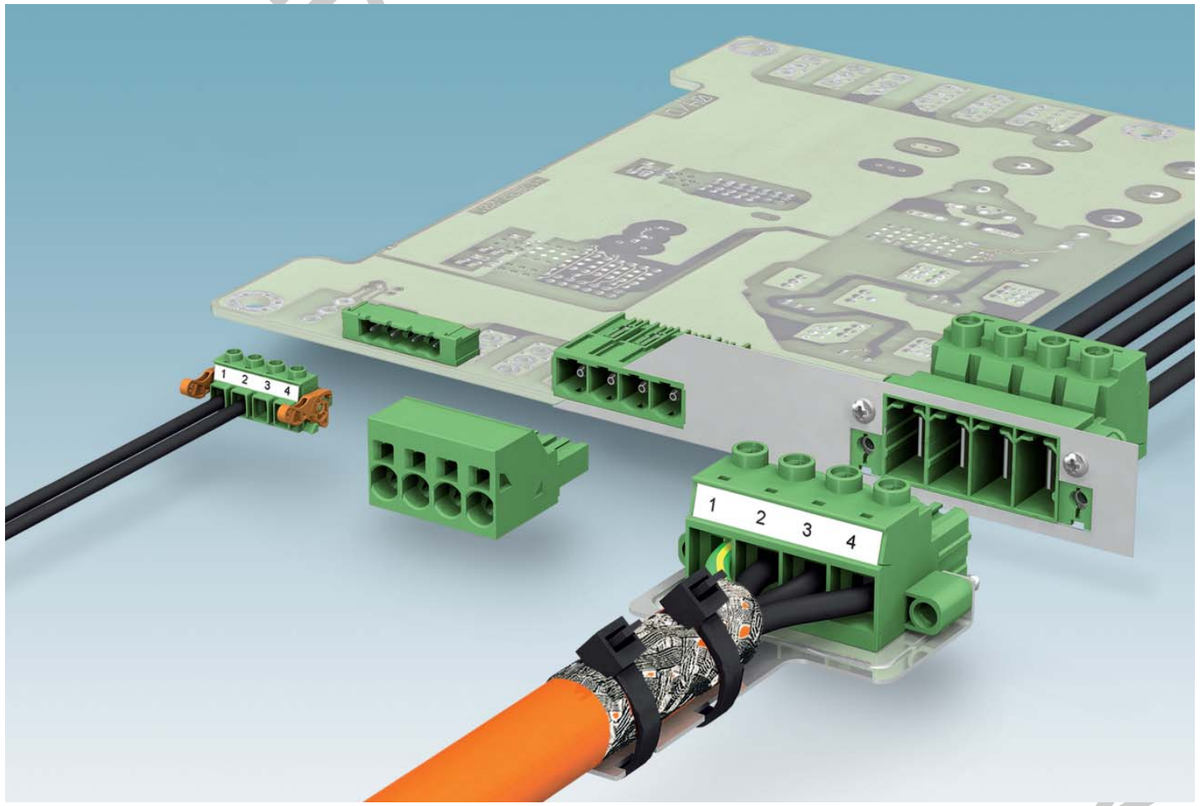


Plug-in connectors for power electronics

COMBICON power plug-in connectors provide professional connection solutions for power electronics. Plug-in PCB connections for numerous possible combinations are available from 16 A with the HC series up to 125 A in the PC 35 series. The conductors are connected with the proven screw connection technology (tension sleeve principle) or alternatively using the user-friendly direct plug-in technology.

In the high-performance classes 41 A (PC 5 series) and 76 A (PC 16 series) in particular, every one of the many and varied combinations supported by touch-protected (inverted) versions and housing feed-throughs is plug-in-capable and easy to maintain. In compact pitches and with 600 V UL approvals, the high-power plug-in connectors provide a connection for all applications with large cross sections anywhere on the global market.

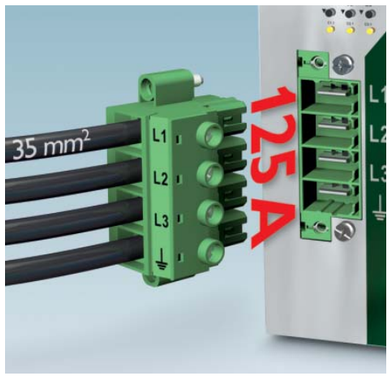
General	**482**
COMBICON power cross-reference list	**484**
HC series plug-in connectors up to 16 A/2.5 mm², pitch 5.0 or 5.08/7.62 mm	**490**
Plugs with screw and spring connection	**490**
Headers with pin contact	**490**
Headers with socket contact	**498**
Vertical plugs for 600 V UL	**498**
Plugs with screw connection for 600 V UL	**502**
Headers with pin contact	**504**
Headers with socket contact	**506**
ME/ME MAX plug-in connectors/headers, pitch 7.25 mm	**508**
PC 4 series plug-in connectors up to 20 A/4 mm², pitch 7.62 mm	**512**
Plugs with screw and crimp connection	**512**
Headers with pin contact	**512**
Feed-through headers with pin contact	**518**
Headers with pin contact for DIN rail mounting	**521**
Cable housing for PC 4 plugs	**521**
PC 5 series plug-in connectors up to 41 A/10 mm², pitch 7.62 mm	**521**
Plugs with screw connection	**521**
Plugs with push-in spring connection	**530**
Headers with pin contact	**536**
Headers with socket contact	**540**
Feed-through headers with pin contact	**544**
PC 6 series plug-in connectors up to 41 A/6 mm², pitch 10.16 mm	**550**
Plugs with screw connection	**550**
Headers with pin contact	**566**
Plugs for direct mounting with socket contact	**552**
PC 16 series plug-in connectors up to 76 A/16 mm², pitch 10.16 mm	**554**
Plugs with screw and push-in spring connection	**554**
Headers with pin contact	**566**
Headers with socket contact	**570**
Feed-through headers with pin/socket contact	**574**
PC 35 series plug-in connectors up to 125 A/35 mm², pitch 15 mm	**586**
Plugs with screw connection	**586**
Headers with pin contact	**590**
Headers with socket contact	**592**
Sheet metal cutout dimensions	**594**

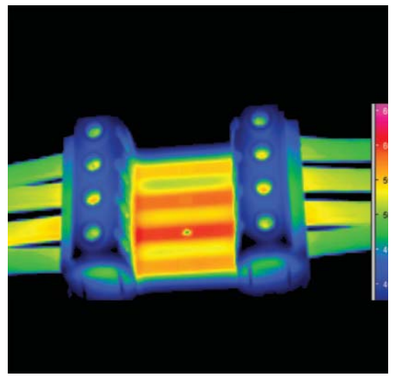


125 A via the PCB? It works!

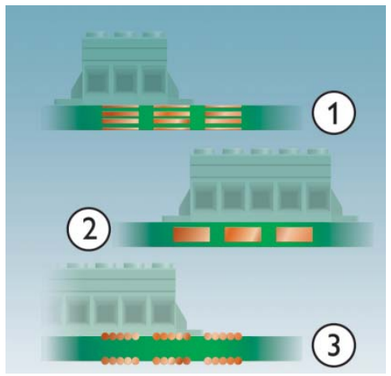
Used in conjunction with high-current PCBs, the plug-in connectors for the power electronics support a current carrying capacity of up to 125 A.

Different PCB production technologies are providing new options for device design. The necessary functions and modules can now be grouped together on a single PCB. In this manner, expensive additional device wiring can be eliminated.

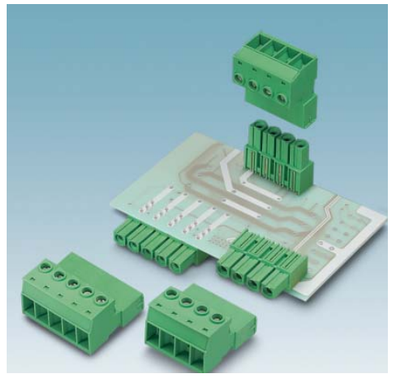




Thermographic image of a test application with 125 A



PCB production technologies
- ① = Multi-layer technology
- ② = Thick copper technology
- ③ = Wire-writing technology



Touch-protected PCB inputs and outputs

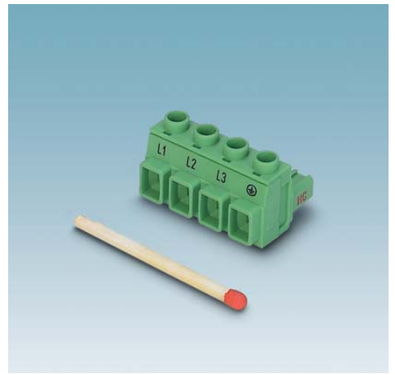
The inverted plugs and headers provide the option of touch-protected PCB and device outputs. Furthermore, they also enable PCB/PCB and cable/cable connections to be implemented.

This enables a new level of freedom in device design.



Extra safety for optimum performance

All plug-in connectors for the power electronics have an integrated double steel spring. This covering spring provides additional safety in the event of power and temperature fluctuations. Contact corrosion is prevented as the double steel spring exerts additional pressure on the contact. This ensures the long-term stability of the contact resistance.



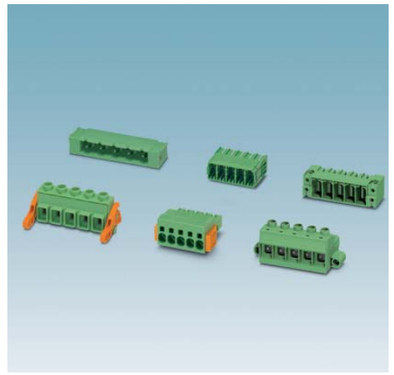
UL approvals for 600 V high-current applications

The plug-in connectors for the power electronics offer 600 V UL approval for every application, even those with the smallest of dimensions. Please note that a distinction must be made here between product and device approvals. The COMBICON power flyer lists the applicable approvals for products and applications in detail.



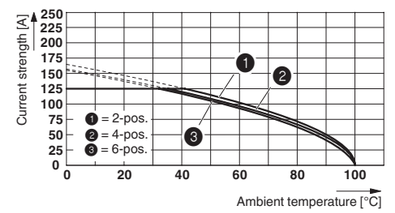
Plug versions with shield connection/strain relief

The shielded plug versions (-STF-SH) in the PC 5, PC 6, PC 16, and PC 35 product ranges provide a professional connection solution for the braided shield, which prevents electrical interference and meets EMC requirements.
- Spade connection for routing the shield
- PCB-SHIELD contacts the shield directly with the PCB
- Vibration-resistant connection, thanks to screws integrated in plug flange



Reliable connection when exposed to vibration:

A fixed connection is essential for applications which experience high vibrations. A fixed connection can be implemented with:
- Conventional screw flange
- Automatic interlocking click & lock system
- New Lock & Release system, with ejector lever



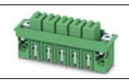
Current carrying capacity of the plug-in connection

Derating data is provided in the catalog so that the permitted current carrying capacity of the plug-in connections can be determined. The maximum permissible current strength for a specific application can be read depending on the ambient temperature. The number of positions and the connection cross section of the conductor must also be taken into consideration. Please also refer to the laboratory data sheets of the corresponding products. For further information, see page 854.

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COMBICON power plug-in connectors with socket contact	Type	Pitch	MSTBA 2,5 HC/...G MSTBVA 2,5 HC/...G Page 496 497	MSTB 2,5 HC/...GF MSTBV 2,5 HC/...GF Page 497 497	FKIC 2,5 HC/...-ST FKIC 2,5 HC/...-STF Page 495	GMSTBA 2,5 HC/...-G GMSTBVA 2,5 HC/...-G Page 504	GIC 2,5 HCV/...-ST-7,62 Page 503
			5.0 5.08	5.0 5.08	5.08	7.62	7.62
	MSTB 2,5 HC...ST Page 490 MSTB 2,5 HC...STF Page 491	5.0 5.08 5.0 5.08	• •	• •	•		
	MSTBT 2,5 HC...ST Page 491	5.0	•				
	MVSTBR 2,5 HC...ST Page 492 MVSTBR 2,5 HC...STF Page 493	5.0 5.08 5.0 5.08	• •	• •	•		
	MVSTBW 2,5 HC...ST Page 493 MVSTBW 2,5 HC...STF Page 493	5.0 5.08 5.0 5.08	• •	• •	•		
	FKC 2,5 HC/...-ST Page 494 FKC 2,5 HC/...-STF Page 495	5.0 5.08 5.0 5.08	• •	• •	•		
	IC 2,5 HC/...-G Page 498 ICV 2,5 HC/...-G Page 499	5.08 5.08	• •		• •		
	IC 2,5 HC/...-GF Page 499 ICV 2,5 HC/...-GF Page 499	5.08 5.08			• •		
	GMSTB 2,5 HCV/...-ST Page 502	7.62				•	•
	GIC(V) 2,5 HC/...-G- Page 506	7.62				•	•

COMBICON power plug-in connectors with socket contact	Type	Pitch	GMSTB(V)A 2,5 HC/...G-7,62-LR Page 505
			7.62
	GMSTB 2,5 HCV...ST-LR Page 503	7.62	•

COMBICON power plug-in connectors with socket contact	Type	Pitch	IPC 35 HC/...STF Page 588	IPC 35 HC/...STGF(-SH) Page 588	IPC 35 HC/...-STF-SH Page 589	PC 35 HC/...-GF Page 590	PCV 35 HC/...GF Page 591	PC 35 HC/...GF-SH Page 591
			15.00	15.00	15.00	15.00	15.00	15.00
	PC 35 HC...STF Page 586	15.00		•		•	•	
	PC 35 HC ...STF-SH Page 587	15.00		•				•
	IPC 35 HC...GF Page 592	15.00	•			•	•	
	IPCV 35 HC...GF Page 593	15.00	•			•	•	
	DFK-IPC 35 HC/...GF Page 593	15.00	•		•			
	DFK-IPCV 35 HC...GF Page 593	15.00	•		•			

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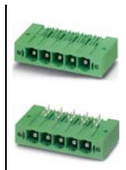
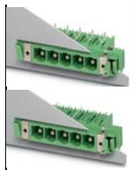
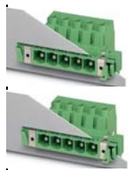
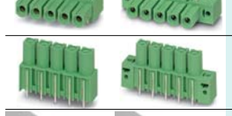
Plug-in connectors for power electronics with 5.0 to 15.0 mm pitch

COMBICON power cross-reference list

COMBICON power plug-in connectors with socket contact		Type	Pitch	COMBICON power plug-in connectors with pin contact: PC 4/...-G PCV 4/...G Page 516	DFK-PC 4/..-GF Page 518	DFK-PC/...-G..-FS-4,8 Page 519	PCVK 4-7,62-(PE) UPCV3K 4-G-7,62 Page 521	IPC 5/..-ST IPC 5/...-STF-(SH) Page 526	IPC 5/...-STGCL Page 527	IPC 5/...STGF IPC 5/...-STGF-SH Page 527 528	ISPC 5/..STGCL Page 534	ISPC 5/...STF ISPC 5...STGF Page 535	PC 5/...G(U) PCV 5/..G Page 536 538	PC 5/...GF(U) PCV 5/..GF Page 537 539	DFK(V)-PC 5/...G(U) Page 544 547	DFK-PC(V) 5/...GF(U)-SH Page 546	DFK-PC 5/...ST Page 548	DFK-PC 5/...STF-(SH) Page 549
			Pitch	7.62	7.62	7.62	7.62	7.62	7.62	7.62	7.62	7.62	7.62	7.62	7.62	7.62	7.62	7.62
		PC 4...ST Page 512	7.62	•		•	•											
		PC 4...STF Page 513	7.62	•	•		•											
		PCC 4 ...ST Page 514	7.62	•		•	•											
		PC 5/...ST1 Page 524	7.62	•		•	•	•			•		•		•		•	
		PC 5/...STF1 Page 525	7.62	•	•		•			•		•		•		•		•
		PC 5/...-STF-SH1 Page 525	7.62	•						•			•			•		•
		PC 5/...STCL1 Page 525	7.62						•		•		•		•		•	
		SPC 5/..ST Page 530	7.62					•			•		•		•		•	
		SPC 5/...STF-(SH) Page 531	7.62							•		•	•	•		•		•
		SPC 5/..STCL Page 531	7.62						•		•		•		•		•	
		TSPC 5/...ST Page 532	7.62					•			•		•		•		•	
		TSPC 5/...STF Page 533	7.62							•		•		•		•		•
		TSPC 5/...STCL Page 533	7.62						•		•		•		•		•	
		IPC 5/...G(U) Page 540	7.62					•			•		•					
		IPC 5/...GF(U) Page 541	7.62					•				•						
		IPCV 5/...G Page 542	7.62					•			•		•					
		IPCV 5/...GF Page 543						•				•						

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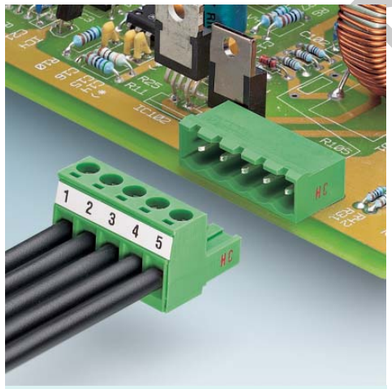
Plug-in connectors for power electronics with 5.0 to 15.0 mm pitch
COMBICON power cross-reference list

COMBICON power plug-in connectors with socket contact	Type	Pitch	 IPC 16/...ST Page 558	 IPC 16/...-STF-(SH) Page 559	 IPC 16/...STGF-(SH) Page 560	 ISPC 16/..-ST Page 564	 ISPC 16/...-STF Page 565	 ISPC 16/...-STGF Page 565	 PC(V) 6-16/...-G1 PC 6-16/...G1U Page 566 568	 PC(V) 6-16/...-G1F PC 6-16/...G1FU Page 567 569	 DFK-PC(V) 6-16/...G(U) Page 574 577	 DFK-PC(V) 6-16/...GF(U)-(SH) Page 575 577	 DFK-PC 16/...ST Page 582	 DFK-PC 16-STF-(SH) Page 583
		Pitch	10.16	10.16	10.16	10.16	10.16	10.16	10.16	10.16	10.16	10.16	10.16	10.16
	PC 6...ST Page 550 PC 6...STF-(SH) Page 551	10.16 10.16							•	•	•	•		
	PCU 6 ...STD Page 552	10.16	•		•				•					
	PC 16/...ST Page 554 PC 16/...STF-(SH) Page 555	10.16 10.16	•		• •		•		• •	• •	•	• •	•	•
	TPC 16/...-ST Page 556 TPC 16/...STF Page 557	10.16 10.16	•		• •		•		• •	• •	•	• •	•	•
	SPC 16/..ST Page 562 SPC 16/...STF-(SH) Page 563	10.16 10.16	•		• •		•		• •	• •	•	• •	•	•
	IPC 16/..G(U) Page 570 IPC 16/..GF(U) Page 571	10.16 10.16	•	• •		•	•		•					
	IPCV 16/..G Page 572 IPCV 16/..GF Page 573	10.16 10.16	•	• •		•	•		•					
	DFK-IPC(V) 16/...G(U) Page 578 DFK-IPC(V) 16/...GF(U)-(SH) Page 581	10.16 10.16	•	•		•	•							
	DFK-IPC 16/...ST Page 584 DFK-IPC 16/...STF-(SH) Page 585	10.16 10.16	•	•		•	•							

[1] Only with POWER COMBICON PCB-SHIELD

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Plugs with screw and spring connection



- The “High Current” (HC) versions with screw connection transmit a current of 16 A
- MSTB 2,5 HC connectors should be used only with HC headers
- The double steel spring ensures additional safety, especially in case of temperature and capacity fluctuations
- Keying profile CP-MSTB as protection against mismatching
- Available as a T-version (MSTBT 2,5 HC)

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products**
or starting on page 484.

The designation "HC" is printed in red to provide clear identification of "High current" connectors.

Corresponding HC headers can be found starting from page 496.

[1]) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



Without screw flange



With screw flange

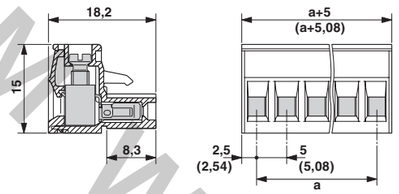


T contour, without screw flange

Accessories

For all types	Type	Page
	Keying profile **CP-MSTB Order No. 1734634**	38
	Screwdriver **SZS 0,6 x 3,5 Order No. 1205053**	
	Marker cards **SK 5/3,8 or SK 5,08/3,8**	798

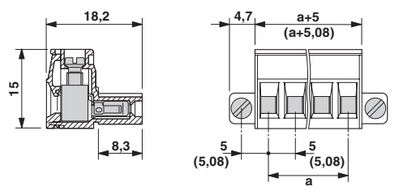
Dimensional drawing



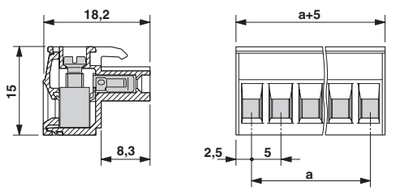
Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 2.5 mm²
Reduction factor = 0.8
Number of positions = see diagram

Dimensional drawing

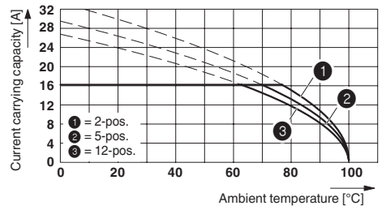


Dimensional drawing

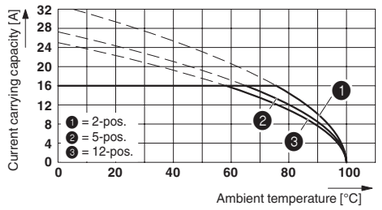


Representative derating curves of the above-mentioned plugs

Type: MSTB 2,5 HC/..-ST with MSTBA 2,5 HC/..-G



Type: MSTBT 2,5 HC/... -ST with MSTBVA 2,5 HC/..-G



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	16[1]) / 2.5		
Rated insulation voltage for pollution degree 2	[V]	320		
Pitch	[mm]	5 / 5.08		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 2.5 / 0.2 - 2.5 / 24 - 12		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 2.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 2.5		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	0.2 - 1 / 0.2 - 1.5		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 1		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 1.5		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250	320	630
Rated surge voltage	[kV]	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	16	-	15
Connection capacity AWG	AWG	30 - 12	-	30 - 12
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Stripping length	[mm]	7		
Screw thread		M3		
Tightening torque	[Nm]	0.5 - 0.6		
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		

Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		5.0 mm pitch, color: green		
2	5.00	**MSTB 2,5 HC/ 2-ST**	**1911855**	50
3	10.00	**MSTB 2,5 HC/ 3-ST**	**1911868**	50
4	15.00	**MSTB 2,5 HC/ 4-ST**	**1911871**	50
5	20.00	**MSTB 2,5 HC/ 5-ST**	**1911884**	50
6	25.00	**MSTB 2,5 HC/ 6-ST**	**1911897**	50
7	30.00	**MSTB 2,5 HC/ 7-ST**	**1911907**	50
8	35.00	**MSTB 2,5 HC/ 8-ST**	**1911910**	50
9	40.00	**MSTB 2,5 HC/ 9-ST**	**1911923**	50
10	45.00	**MSTB 2,5 HC/10-ST**	**1911936**	50
11	50.00	**MSTB 2,5 HC/11-ST**	**1911949**	50
12	55.00	**MSTB 2,5 HC/12-ST**	**1911952**	50
		5.08 mm pitch, color: Green		
2	5.08	**MSTB 2,5 HC/ 2-ST-5,08**	**1911965**	50
3	10.16	**MSTB 2,5 HC/ 3-ST-5,08**	**1911978**	50
4	15.24	**MSTB 2,5 HC/ 4-ST-5,08**	**1911981**	50
5	20.32	**MSTB 2,5 HC/ 5-ST-5,08**	**1911994**	50
6	25.40	**MSTB 2,5 HC/ 6-ST-5,08**	**1912003**	50
7	30.48	**MSTB 2,5 HC/ 7-ST-5,08**	**1912016**	50
8	35.56	**MSTB 2,5 HC/ 8-ST-5,08**	**1912029**	50
9	40.64	**MSTB 2,5 HC/ 9-ST-5,08**	**1912032**	50
10	45.72	**MSTB 2,5 HC/10-ST-5,08**	**1912045**	50
11	50.80	**MSTB 2,5 HC/11-ST-5,08**	**1912058**	50
12	55.88	**MSTB 2,5 HC/12-ST-5,08**	**1912061**	50

Ordering data

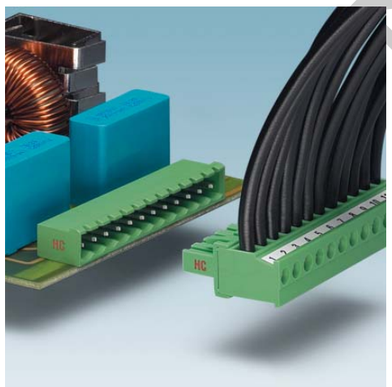
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MSTB 2,5 HC/ 2-STF	**1912074**	50
MSTB 2,5 HC/ 3-STF	**1912087**	50
MSTB 2,5 HC/ 4-STF	**1912090**	50
MSTB 2,5 HC/ 5-STF	**1912100**	50
MSTB 2,5 HC/ 6-STF	**1912113**	50
MSTB 2,5 HC/ 7-STF	**1912126**	50
MSTB 2,5 HC/ 8-STF	**1912139**	50
MSTB 2,5 HC/ 9-STF	**1912142**	50
MSTB 2,5 HC/10-STF	**1912155**	50
MSTB 2,5 HC/11-STF	**1912168**	50
MSTB 2,5 HC/12-STF	**1912171**	50
5.08 mm pitch, color: Green		
MSTB 2,5 HC/ 2-STF-5,08	**1912184**	50
MSTB 2,5 HC/ 3-STF-5,08	**1912197**	50
MSTB 2,5 HC/ 4-STF-5,08	**1912207**	50
MSTB 2,5 HC/ 5-STF-5,08	**1912210**	50
MSTB 2,5 HC/ 6-STF-5,08	**1912223**	50
MSTB 2,5 HC/ 7-STF-5,08	**1912236**	50
MSTB 2,5 HC/ 8-STF-5,08	**1912249**	50
MSTB 2,5 HC/ 9-STF-5,08	**1912252**	50
MSTB 2,5 HC/10-STF-5,08	**1912265**	50
MSTB 2,5 HC/11-STF-5,08	**1912278**	50
MSTB 2,5 HC/12-STF-5,08	**1912281**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MSTBT 2,5 HC/ 2-ST	**1926358**	50
MSTBT 2,5 HC/ 3-ST	**1926248**	50
MSTBT 2,5 HC/ 4-ST	**1926251**	50
MSTBT 2,5 HC/ 5-ST	**1926264**	50
MSTBT 2,5 HC/ 6-ST	**1926277**	50
MSTBT 2,5 HC/ 7-ST	**1926280**	50
MSTBT 2,5 HC/ 8-ST	**1926293**	50
MSTBT 2,5 HC/ 9-ST	**1926303**	50
MSTBT 2,5 HC/10-ST	**1926316**	50
MSTBT 2,5 HC/11-ST	**1926329**	50
MSTBT 2,5 HC/12-ST	**1926332**	50

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Plugs with screw and spring connection



- 16 A plugs with vertical connection direction and screw connection
- MVSTBR 2,5 HC…ST, conductor entry on the keying side of the plug, therefore conductor exit to the top
- MVSTBW 2,5 HC…ST, conductor entry on the rippled side of the plug, therefore conductor exit to the bottom
- HC connectors should be used only with HC headers
- Versions with a screw flange (-STF) for a vibration-resistant connection

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products**
or starting on page 484.

The designation "HC" is printed in red to provide clear identification of "High current" connectors.

Corresponding HC headers can be found starting from page 496.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

Accessories

For all types	Type	Page
	Keying profile **CP-MSTB Order No. 1734634**	38
	Screwdriver **SZS 0,6 x 3,5 Order No. 1205053**	
	Marker cards **SK 5/3,8 or SK 5,08/3,8**	798



Connection point facing the smooth wall of the header (R)



With screw flange, connection point facing the smooth panel of the header (R)

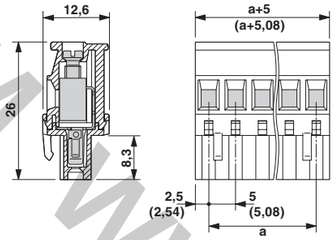


Connection point facing the rippled wall of the header (W)

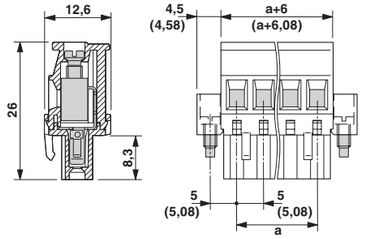


With screw flange, connection point facing the rippled wall (W) of the header

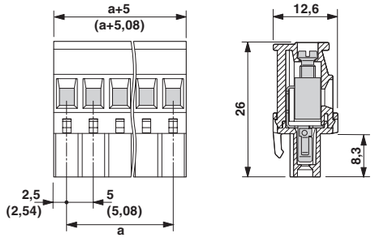
Dimensional drawing



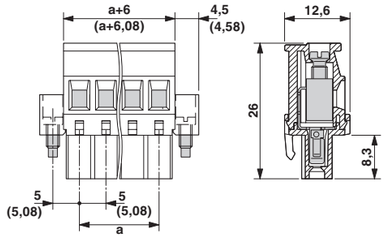
Dimensional drawing



Dimensional drawing



Dimensional drawing

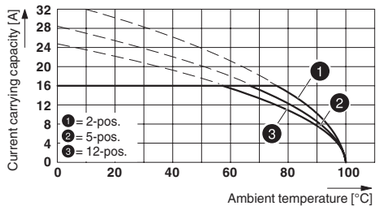


Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 2.5 mm²
Reduction factor = 0.8
Number of positions = see diagram

Representative derating curve

Type: MVSTBR 2,5 HC/..-ST with MSTBVA 2,5 HC/..-G



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	16[1]) / 2.5		
Rated insulation voltage for pollution degree 2	[V]	320		
Pitch	[mm]	5 / 5.08		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 2.5 / 0.2 - 2.5 / 24 - 12		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 2.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 2.5		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	0.2 - 1 / 0.2 - 1.5		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 1		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 1.5		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250	320	630
Rated surge voltage	[kV]	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	16	-	15
Connection capacity AWG	AWG	30 - 12	-	30 - 12
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Stripping length	[mm]	7		
Screw thread		M3		
Tightening torque	[Nm]	0.5 - 0.6		
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		

Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		5.0 mm pitch, color: green		
2	5.00	**MVSTBR 2,5 HC/ 2-ST**	**1912294**	50
3	10.00	**MVSTBR 2,5 HC/ 3-ST**	**1912304**	50
4	15.00	**MVSTBR 2,5 HC/ 4-ST**	**1912317**	50
5	20.00	**MVSTBR 2,5 HC/ 5-ST**	**1912320**	50
6	25.00	**MVSTBR 2,5 HC/ 6-ST**	**1912333**	50
7	30.00	**MVSTBR 2,5 HC/ 7-ST**	**1912346**	50
8	35.00	**MVSTBR 2,5 HC/ 8-ST**	**1912359**	50
9	40.00	**MVSTBR 2,5 HC/ 9-ST**	**1912362**	50
10	45.00	**MVSTBR 2,5 HC/10-ST**	**1912375**	50
11	50.00	**MVSTBR 2,5 HC/11-ST**	**1912388**	50
12	55.00	**MVSTBR 2,5 HC/12-ST**	**1912391**	50
		5.08 mm pitch, color: Green		
2	5.08	**MVSTBR 2,5 HC/ 2-ST-5,08**	**1912401**	50
3	10.16	**MVSTBR 2,5 HC/ 3-ST-5,08**	**1912414**	50
4	15.24	**MVSTBR 2,5 HC/ 4-ST-5,08**	**1912427**	50
5	20.32	**MVSTBR 2,5 HC/ 5-ST-5,08**	**1912430**	50
6	25.40	**MVSTBR 2,5 HC/ 6-ST-5,08**	**1912443**	50
7	30.48	**MVSTBR 2,5 HC/ 7-ST-5,08**	**1912456**	50
8	35.56	**MVSTBR 2,5 HC/ 8-ST-5,08**	**1912469**	50
9	40.64	**MVSTBR 2,5 HC/ 9-ST-5,08**	**1912472**	50
10	45.72	**MVSTBR 2,5 HC/10-ST-5,08**	**1912485**	50
11	50.80	**MVSTBR 2,5 HC/11-ST-5,08**	**1912498**	50
12	55.88	**MVSTBR 2,5 HC/12-ST-5,08**	**1912508**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MVSTBR 2,5 HC/ 2-STF	**1912511**	50
MVSTBR 2,5 HC/ 3-STF	**1912524**	50
MVSTBR 2,5 HC/ 4-STF	**1912537**	50
MVSTBR 2,5 HC/ 5-STF	**1912540**	50
MVSTBR 2,5 HC/ 6-STF	**1912553**	50
MVSTBR 2,5 HC/ 7-STF	**1912566**	50
MVSTBR 2,5 HC/ 8-STF	**1912579**	50
MVSTBR 2,5 HC/ 9-STF	**1912582**	50
MVSTBR 2,5 HC/10-STF	**1912595**	50
MVSTBR 2,5 HC/11-STF	**1912605**	50
MVSTBR 2,5 HC/12-STF	**1912618**	50
5.08 mm pitch, color: Green		
MVSTBR 2,5 HC/ 2-STF-5,08	**1912621**	50
MVSTBR 2,5 HC/ 3-STF-5,08	**1912634**	50
MVSTBR 2,5 HC/ 4-STF-5,08	**1912647**	50
MVSTBR 2,5 HC/ 5-STF-5,08	**1912650**	50
MVSTBR 2,5 HC/ 6-STF-5,08	**1912663**	50
MVSTBR 2,5 HC/ 7-STF-5,08	**1912676**	50
MVSTBR 2,5 HC/ 8-STF-5,08	**1912689**	50
MVSTBR 2,5 HC/ 9-STF-5,08	**1912692**	50
MVSTBR 2,5 HC/10-STF-5,08	**1912702**	50
MVSTBR 2,5 HC/11-STF-5,08	**1912715**	50
MVSTBR 2,5 HC/12-STF-5,08	**1912728**	50

Ordering data

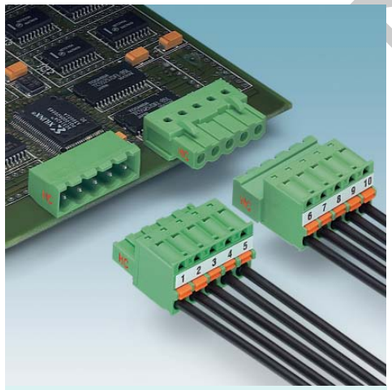
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MVSTBW 2,5 HC/ 2-ST	**1912731**	50
MVSTBW 2,5 HC/ 3-ST	**1912744**	50
MVSTBW 2,5 HC/ 4-ST	**1912757**	50
MVSTBW 2,5 HC/ 5-ST	**1912760**	50
MVSTBW 2,5 HC/ 6-ST	**1912773**	50
MVSTBW 2,5 HC/ 7-ST	**1912786**	50
MVSTBW 2,5 HC/ 8-ST	**1912799**	50
MVSTBW 2,5 HC/ 9-ST	**1912809**	50
MVSTBW 2,5 HC/10-ST	**1912812**	50
MVSTBW 2,5 HC/11-ST	**1912825**	50
MVSTBW 2,5 HC/12-ST	**1912838**	50
5.08 mm pitch, color: Green		
MVSTBW 2,5 HC/ 2-ST-5,08	**1912841**	50
MVSTBW 2,5 HC/ 3-ST-5,08	**1912854**	50
MVSTBW 2,5 HC/ 4-ST-5,08	**1912867**	50
MVSTBW 2,5 HC/ 5-ST-5,08	**1912870**	50
MVSTBW 2,5 HC/ 6-ST-5,08	**1912883**	50
MVSTBW 2,5 HC/ 7-ST-5,08	**1912896**	50
MVSTBW 2,5 HC/ 8-ST-5,08	**1912906**	50
MVSTBW 2,5 HC/ 9-ST-5,08	**1912919**	50
MVSTBW 2,5 HC/10-ST-5,08	**1912922**	50
MVSTBW 2,5 HC/11-ST-5,08	**1912935**	50
MVSTBW 2,5 HC/12-ST-5,08	**1912948**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MVSTBW 2,5 HC/ 2-STF	**1912951**	50
MVSTBW 2,5 HC/ 3-STF	**1912964**	50
MVSTBW 2,5 HC/ 4-STF	**1912977**	50
MVSTBW 2,5 HC/ 5-STF	**1912980**	50
MVSTBW 2,5 HC/ 6-STF	**1912993**	50
MVSTBW 2,5 HC/ 7-STF	**1913002**	50
MVSTBW 2,5 HC/ 8-STF	**1913015**	50
MVSTBW 2,5 HC/ 9-STF	**1913028**	50
MVSTBW 2,5 HC/10-STF	**1913031**	50
MVSTBW 2,5 HC/11-STF	**1913044**	50
MVSTBW 2,5 HC/12-STF	**1913057**	50
5.08 mm pitch, color: Green		
MVSTBW 2,5 HC/ 2-STF-5,08	**1913060**	50
MVSTBW 2,5 HC/ 3-STF-5,08	**1913073**	50
MVSTBW 2,5 HC/ 4-STF-5,08	**1913086**	50
MVSTBW 2,5 HC/ 5-STF-5,08	**1913099**	50
MVSTBW 2,5 HC/ 6-STF-5,08	**1913109**	50
MVSTBW 2,5 HC/ 7-STF-5,08	**1913112**	50
MVSTBW 2,5 HC/ 8-STF-5,08	**1913125**	50
MVSTBW 2,5 HC/ 9-STF-5,08	**1913138**	50
MVSTBW 2,5 HC/10-STF-5,08	**1913141**	50
MVSTBW 2,5 HC/11-STF-5,08	**1913154**	50
MVSTBW 2,5 HC/12-STF-5,08	**1913167**	50

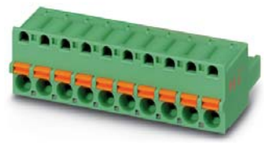
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Plugs with screw and spring connection

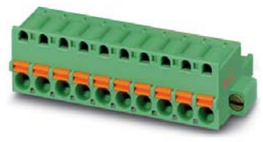


- Plug-in connectors with push-in spring connection as “High Current” (HC) version for 16 A
- Inverted versions with a male contact (FKIC 2,5 HC); e.g. for cable-cable connections or motor outputs
- HC connectors should be used only with HC headers
- Two integrated test connections
- Keying profiles (CP) as protection against mismatching
- Versions with screw flange (STF)

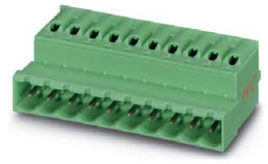
Notes:
In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
COMBICON select You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 484.
The designation "HC" is printed in red to provide clear identification of "High current" connectors.
Corresponding HC headers can be found starting from page 496.
Corresponding inverted HC headers can be found starting from page 498.
¹) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



Without screw flange, with female contact



With screw flange and female contact



Inverted with male contact

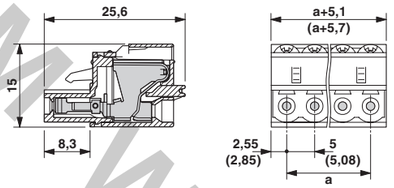


Inverted with male contact, with screw flange

Accessories

For all types	Type	Page
	Strain relief **STZ ...-FKC-5,08**	837
	Test plug **MPS**	831
	Screwdriver **SZS 0,6 x 3,5** **Order No. 1205053**	
	Crimping pliers for 0.25 to 6 mm² **CRIMPFOX 6** **Order No. 1212034**	
Only for FKC 2,5 HC/...-ST(F)		
	Keying profile **CP-MSTB** **Order No. 1734634**	38
Only for FKIC 2,5 HC/...-ST(F)		
	Keying section **CR-MSTB** **Order No. 1734401**	38

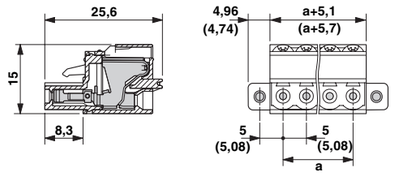
Dimensional drawing



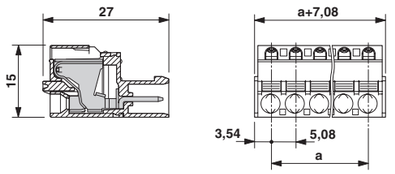
Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 2.5 mm²
Reduction factor = 0.8
Number of positions = see diagram

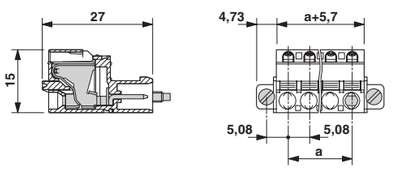
Dimensional drawing



Dimensional drawing

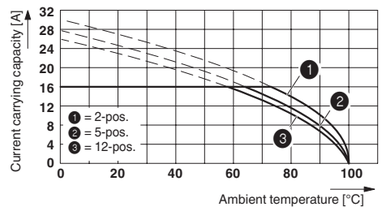


Dimensional drawing

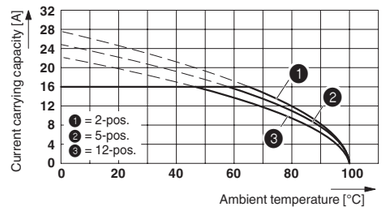


Representative derating curves of the above-mentioned plugs

Type: FKC 2,5 HC/...-ST with MSTBA 2,5 HC/...-G



Type: FKIC 2,5 HC/...-ST- 5,08 with IC 2,5 HC/...-G- 5,08



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	16¹) / 2.5		
Rated insulation voltage for pollution degree 2	[V]	320		
Pitch	[mm]	5 / 5.08		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 2.5 / 0.2 - 2.5 / 24 - 12		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 2.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 1.5		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	- / -		
Stranded with ferrules without plastic sleeve	[mm²]	-		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 1.5		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250	320	630
Rated surge voltage	[kV]	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	16	-	15
Connection capacity AWG	AWG	26 - 12	-	26 - 12
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Stripping length	[mm]	10		
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		

Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		5.0 mm pitch, color: green		
2	5.00	**FKC 2,5 HC/ 2-ST**	**1942154**	50
3	10.00	**FKC 2,5 HC/ 3-ST**	**1942167**	50
4	15.00	**FKC 2,5 HC/ 4-ST**	**1942170**	50
5	20.00	**FKC 2,5 HC/ 5-ST**	**1942183**	50
6	25.00	**FKC 2,5 HC/ 6-ST**	**1942196**	50
7	30.00	**FKC 2,5 HC/ 7-ST**	**1942206**	50
8	35.00	**FKC 2,5 HC/ 8-ST**	**1942219**	50
9	40.00	**FKC 2,5 HC/ 9-ST**	**1942222**	50
10	45.00	**FKC 2,5 HC/10-ST**	**1942235**	50
11	50.00	**FKC 2,5 HC/11-ST**	**1942248**	50
12	55.00	**FKC 2,5 HC/12-ST**	**1942251**	50
		5.08 mm pitch, color: Green		
2	5.08	**FKC 2,5 HC/ 2-ST-5,08**	**1942374**	50
3	10.16	**FKC 2,5 HC/ 3-ST-5,08**	**1942387**	50
4	15.24	**FKC 2,5 HC/ 4-ST-5,08**	**1942390**	50
5	20.32	**FKC 2,5 HC/ 5-ST-5,08**	**1942400**	50
6	25.40	**FKC 2,5 HC/ 6-ST-5,08**	**1942413**	50
7	30.48	**FKC 2,5 HC/ 7-ST-5,08**	**1942426**	50
8	35.56	**FKC 2,5 HC/ 8-ST-5,08**	**1942439**	50
9	40.64	**FKC 2,5 HC/ 9-ST-5,08**	**1942442**	50
10	45.72	**FKC 2,5 HC/10-ST-5,08**	**1942455**	50
11	50.80	**FKC 2,5 HC/11-ST-5,08**	**1942468**	50
12	55.88	**FKC 2,5 HC/12-ST-5,08**	**1942471**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
FKC 2,5 HC/ 2-STF	**1942264**	50
FKC 2,5 HC/ 3-STF	**1942277**	50
FKC 2,5 HC/ 4-STF	**1942280**	50
FKC 2,5 HC/ 5-STF	**1942293**	50
FKC 2,5 HC/ 6-STF	**1942303**	50
FKC 2,5 HC/ 7-STF	**1942316**	50
FKC 2,5 HC/ 8-STF	**1942329**	50
FKC 2,5 HC/ 9-STF	**1942332**	50
FKC 2,5 HC/10-STF	**1942345**	50
FKC 2,5 HC/11-STF	**1942358**	50
FKC 2,5 HC/12-STF	**1942361**	50
5.08 mm pitch, color: Green		
FKC 2,5 HC/ 2-STF-5,08	**1942484**	50
FKC 2,5 HC/ 3-STF-5,08	**1942497**	50
FKC 2,5 HC/ 4-STF-5,08	**1942507**	50
FKC 2,5 HC/ 5-STF-5,08	**1942510**	50
FKC 2,5 HC/ 6-STF-5,08	**1942523**	50
FKC 2,5 HC/ 7-STF-5,08	**1942536**	50
FKC 2,5 HC/ 8-STF-5,08	**1942549**	50
FKC 2,5 HC/ 9-STF-5,08	**1942552**	50
FKC 2,5 HC/10-STF-5,08	**1942565**	50
FKC 2,5 HC/11-STF-5,08	**1942578**	50
FKC 2,5 HC/12-STF-5,08	**1942581**	50

Ordering data

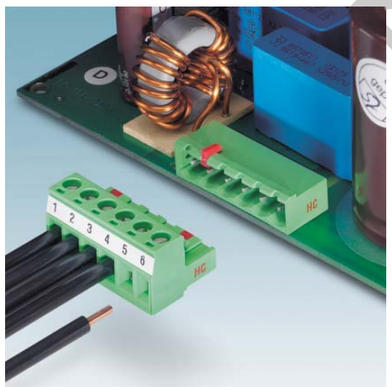
Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
FKIC 2,5 HC/ 2-ST-5,08	**1942594**	50
FKIC 2,5 HC/ 3-ST-5,08	**1942604**	50
FKIC 2,5 HC/ 4-ST-5,08	**1942617**	50
FKIC 2,5 HC/ 5-ST-5,08	**1942620**	50
FKIC 2,5 HC/ 6-ST-5,08	**1942633**	50
FKIC 2,5 HC/ 7-ST-5,08	**1942646**	50
FKIC 2,5 HC/ 8-ST-5,08	**1942659**	50
FKIC 2,5 HC/ 9-ST-5,08	**1942662**	50
FKIC 2,5 HC/10-ST-5,08	**1942675**	50
FKIC 2,5 HC/11-ST-5,08	**1942688**	50
FKIC 2,5 HC/12-ST-5,08	**1942691**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
FKIC 2,5 HC/ 2-STF-5,08	**1942701**	50
FKIC 2,5 HC/ 3-STF-5,08	**1942714**	50
FKIC 2,5 HC/ 4-STF-5,08	**1942727**	50
FKIC 2,5 HC/ 5-STF-5,08	**1942730**	50
FKIC 2,5 HC/ 6-STF-5,08	**1942743**	50
FKIC 2,5 HC/ 7-STF-5,08	**1942756**	50
FKIC 2,5 HC/ 8-STF-5,08	**1942769**	50
FKIC 2,5 HC/ 9-STF-5,08	**1942772**	50
FKIC 2,5 HC/10-STF-5,08	**1942785**	50
FKIC 2,5 HC/11-STF-5,08	**1942798**	50
FKIC 2,5 HC/12-STF-5,08	**1942808**	50

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Headers with pin contact



- 16-A (HC) header in horizontal and vertical (MSTBV) design
- Lateral HC print ("High Current")
- HC header should be used only with HC connectors
- Vibration-resistant connection with a threaded flange (-GF)
- Coding sections (CR) as protection against mismating
- No possibility of lateral mismating due to side panels

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products**
or starting on page 484.

The designation "HC" is printed in red to provide clear identification of "High current" connectors.

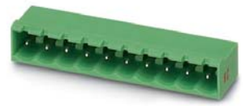
Corresponding HC plug components can be found starting from page 490.

Mounting screws for base element with threaded flange (....GF...): sheet metal screw ISO 1481-ST 2,2x6,5 C or ISO 7049-ST 2,2x6,5 C. Screw connection only permitted prior to soldering.

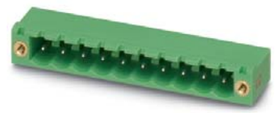
[1]) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

Accessories

For all types	Type	Page
	Keying section **CR-MSTB Order No. 1734401**	38
	Keying tab **MSTB-BL Order No. 1755477**	837
	Marker cards **SK 5/3,8 orSK 5,08/3,8**	798



Horizontal



Horizontal, with threaded flange

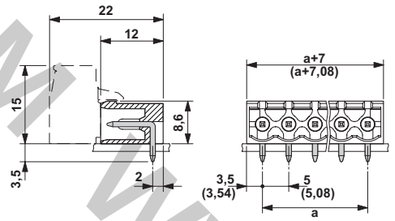


Vertical

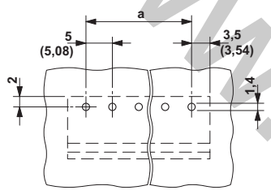


Vertical, with threaded flange

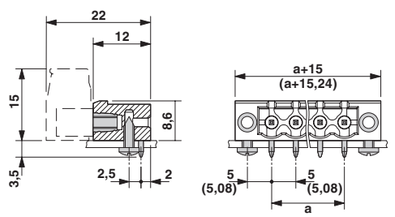
Dimensional drawing



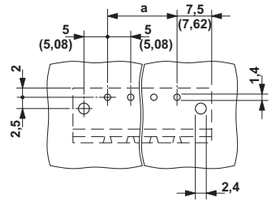
Drilling diagram



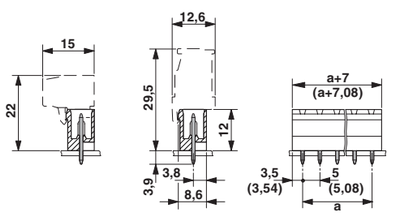
Dimensional drawing



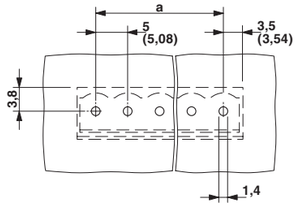
Drilling diagram



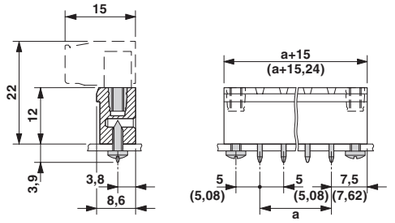
Dimensional drawing



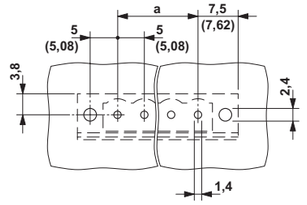
Drilling diagram



Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current	[A]	16[1])		
Rated insulation voltage for pollution degree 2	[V]	320		
Pitch	[mm]	5 / 5.08		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	250	320	400
Rated surge voltage	[kV]	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	16	-	15
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.4 / 1 x 1 mm		

Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		5.0 mm pitch, color: green		
2	5.00	**MSTBA 2,5 HC/ 2-G**	**1923759**	50
3	10.00	**MSTBA 2,5 HC/ 3-G**	**1923762**	50
4	15.00	**MSTBA 2,5 HC/ 4-G**	**1923775**	50
5	20.00	**MSTBA 2,5 HC/ 5-G**	**1923788**	50
6	25.00	**MSTBA 2,5 HC/ 6-G**	**1923791**	50
7	30.00	**MSTBA 2,5 HC/ 7-G**	**1923801**	50
8	35.00	**MSTBA 2,5 HC/ 8-G**	**1923814**	50
9	40.00	**MSTBA 2,5 HC/ 9-G**	**1923827**	50
10	45.00	**MSTBA 2,5 HC/10-G**	**1923830**	50
11	50.00	**MSTBA 2,5 HC/11-G**	**1923843**	50
12	55.00	**MSTBA 2,5 HC/12-G**	**1923856**	50
		5.08 mm pitch, color: Green		
2	5.08	**MSTBA 2,5 HC/ 2-G-5,08**	**1923869**	50
3	10.16	**MSTBA 2,5 HC/ 3-G-5,08**	**1923872**	50
4	15.24	**MSTBA 2,5 HC/ 4-G-5,08**	**1923885**	50
5	20.32	**MSTBA 2,5 HC/ 5-G-5,08**	**1923898**	50
6	25.40	**MSTBA 2,5 HC/ 6-G-5,08**	**1923908**	50
7	30.48	**MSTBA 2,5 HC/ 7-G-5,08**	**1923911**	50
8	35.56	**MSTBA 2,5 HC/ 8-G-5,08**	**1923924**	50
9	40.64	**MSTBA 2,5 HC/ 9-G-5,08**	**1923937**	50
10	45.72	**MSTBA 2,5 HC/10-G-5,08**	**1923940**	50
11	50.80	**MSTBA 2,5 HC/11-G-5,08**	**1923953**	50
12	55.88	**MSTBA 2,5 HC/12-G-5,08**	**1923966**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MSTB 2,5 HC/ 2-GF	**1923979**	50
MSTB 2,5 HC/ 3-GF	**1923982**	50
MSTB 2,5 HC/ 4-GF	**1923995**	50
MSTB 2,5 HC/ 5-GF	**1924004**	50
MSTB 2,5 HC/ 6-GF	**1924017**	50
MSTB 2,5 HC/ 7-GF	**1924020**	50
MSTB 2,5 HC/ 8-GF	**1924033**	50
MSTB 2,5 HC/ 9-GF	**1924046**	50
MSTB 2,5 HC/10-GF	**1924059**	50
MSTB 2,5 HC/11-GF	**1924062**	50
MSTB 2,5 HC/12-GF	**1924075**	50
5.08 mm pitch, color: Green		
MSTB 2,5 HC/ 2-GF-5,08	**1924088**	50
MSTB 2,5 HC/ 3-GF-5,08	**1924091**	50
MSTB 2,5 HC/ 4-GF-5,08	**1924101**	50
MSTB 2,5 HC/ 5-GF-5,08	**1924114**	50
MSTB 2,5 HC/ 6-GF-5,08	**1924127**	50
MSTB 2,5 HC/ 7-GF-5,08	**1924130**	50
MSTB 2,5 HC/ 8-GF-5,08	**1924143**	50
MSTB 2,5 HC/ 9-GF-5,08	**1924156**	50
MSTB 2,5 HC/10-GF-5,08	**1924169**	50
MSTB 2,5 HC/11-GF-5,08	**1924172**	50
MSTB 2,5 HC/12-GF-5,08	**1924185**	50

Ordering data

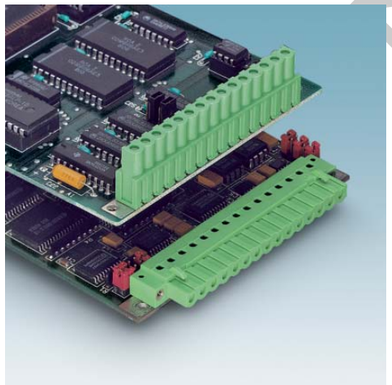
Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MSTBVA 2,5 HC/ 2-G	**1924198**	50
MSTBVA 2,5 HC/ 3-G	**1924208**	50
MSTBVA 2,5 HC/ 4-G	**1924211**	50
MSTBVA 2,5 HC/ 5-G	**1924224**	50
MSTBVA 2,5 HC/ 6-G	**1924237**	50
MSTBVA 2,5 HC/ 7-G	**1924240**	50
MSTBVA 2,5 HC/ 8-G	**1924253**	50
MSTBVA 2,5 HC/ 9-G	**1924266**	50
MSTBVA 2,5 HC/10-G	**1924279**	50
MSTBVA 2,5 HC/11-G	**1924282**	50
MSTBVA 2,5 HC/12-G	**1924295**	50
5.08 mm pitch, color: Green		
MSTBVA 2,5 HC/ 2-G-5,08	**1924305**	50
MSTBVA 2,5 HC/ 3-G-5,08	**1924318**	50
MSTBVA 2,5 HC/ 4-G-5,08	**1924321**	50
MSTBVA 2,5 HC/ 5-G-5,08	**1924334**	50
MSTBVA 2,5 HC/ 6-G-5,08	**1924347**	50
MSTBVA 2,5 HC/ 7-G-5,08	**1924350**	50
MSTBVA 2,5 HC/ 8-G-5,08	**1924363**	50
MSTBVA 2,5 HC/ 9-G-5,08	**1924376**	50
MSTBVA 2,5 HC/10-G-5,08	**1924389**	50
MSTBVA 2,5 HC/11-G-5,08	**1924392**	50
MSTBVA 2,5 HC/12-G-5,08	**1924402**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
5.0 mm pitch, color: green		
MSTBV 2,5 HC/ 2-GF	**1924415**	50
MSTBV 2,5 HC/ 3-GF	**1924428**	50
MSTBV 2,5 HC/ 4-GF	**1924431**	50
MSTBV 2,5 HC/ 5-GF	**1924444**	50
MSTBV 2,5 HC/ 6-GF	**1924457**	50
MSTBV 2,5 HC/ 7-GF	**1924460**	50
MSTBV 2,5 HC/ 8-GF	**1924473**	50
MSTBV 2,5 HC/ 9-GF	**1924486**	50
MSTBV 2,5 HC/10-GF	**1924499**	50
MSTBV 2,5 HC/11-GF	**1924509**	50
MSTBV 2,5 HC/12-GF	**1924512**	50
5.08 mm pitch, color: Green		
MSTBV 2,5 HC/ 2-GF-5,08	**1924525**	50
MSTBV 2,5 HC/ 3-GF-5,08	**1924538**	50
MSTBV 2,5 HC/ 4-GF-5,08	**1924541**	50
MSTBV 2,5 HC/ 5-GF-5,08	**1924554**	50
MSTBV 2,5 HC/ 6-GF-5,08	**1924567**	50
MSTBV 2,5 HC/ 7-GF-5,08	**1924570**	50
MSTBV 2,5 HC/ 8-GF-5,08	**1924583**	50
MSTBV 2,5 HC/ 9-GF-5,08	**1924596**	50
MSTBV 2,5 HC/10-GF-5,08	**1924606**	50
MSTBV 2,5 HC/11-GF-5,08	**1924619**	50
MSTBV 2,5 HC/12-GF-5,08	**1924622**	50

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Headers with socket contact



- Inverted 16-A (HC) header with a female contact for shock-proof applications or PCB-PCB connections
- Horizontal and vertical (ICV) designs
- Double steel spring as extra safety against contact corrosion
- Vibration-resistant connection with a threaded flange (-GF)
- HC header should be used only with HC connectors

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

The designation "HC" is printed in red to provide clear identification of "High current" connectors.

Corresponding inverted HC plug components can be found starting from page 495.

Mounting screws for base element with threaded flange (....GF...): sheet metal screw ISO 1481-ST 2,2x6,5 C or ISO 7049-ST 2,2x6,5 C. Screw connection only permitted prior to soldering.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products**
or starting on page 484.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

Accessories

For all types	Type	Page
	Keying profile **CP-MSTB** **Order No. 1734634**	38
	Test plug **MPS**	831
	Reducing plug **RPS** **Order No. 0201647**	831



Horizontal



Horizontal, with threaded flange

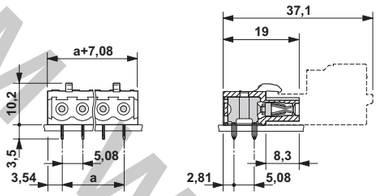


Vertical

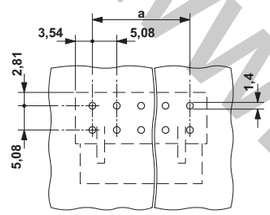


Vertical, with threaded flange

Dimensional drawing



Drilling diagram



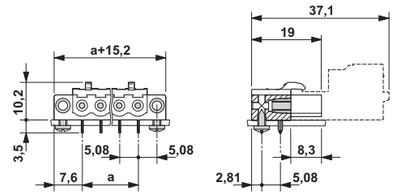
Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current	[A]		16[1]	
Rated insulation voltage for pollution degree 2	[V]		320	
Pitch	[mm]		5.08	
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	320	320	630
Rated surge voltage	[kV]	4	4	4
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	250	-	300
Nominal current	[A]	16	-	10
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.4 / 1,2 x 0,5 mm		

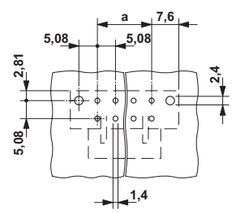
Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		5.08 mm pitch, color: Green		
2	5.08	**IC 2,5 HC/ 2-G-5,08**	**1943302**	50
3	10.16	**IC 2,5 HC/ 3-G-5,08**	**1943315**	50
4	15.24	**IC 2,5 HC/ 4-G-5,08**	**1943328**	50
5	20.32	**IC 2,5 HC/ 5-G-5,08**	**1943331**	50
6	25.40	**IC 2,5 HC/ 6-G-5,08**	**1943344**	50
7	30.48	**IC 2,5 HC/ 7-G-5,08**	**1943360**	50
8	35.56	**IC 2,5 HC/ 8-G-5,08**	**1943373**	50
9	40.64	**IC 2,5 HC/ 9-G-5,08**	**1943386**	50
10	45.72	**IC 2,5 HC/10-G-5,08**	**1943399**	50
11	50.80	**IC 2,5 HC/11-G-5,08**	**1943409**	50
12	55.88	**IC 2,5 HC/12-G-5,08**	**1943412**	50

Dimensional drawing



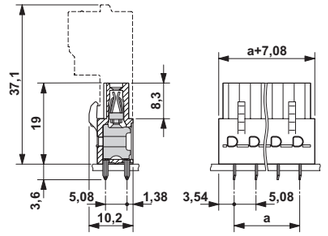
Drilling diagram



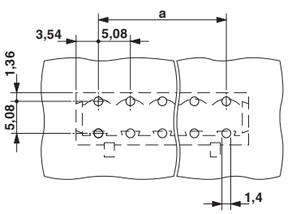
Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
IC 2,5 HC/ 2-GF-5,08	**1943425**	50
IC 2,5 HC/ 3-GF-5,08	**1943438**	50
IC 2,5 HC/ 4-GF-5,08	**1943441**	50
IC 2,5 HC/ 5-GF-5,08	**1943454**	50
IC 2,5 HC/ 6-GF-5,08	**1943467**	50
IC 2,5 HC/ 7-GF-5,08	**1943470**	50
IC 2,5 HC/ 8-GF-5,08	**1943483**	50
IC 2,5 HC/ 9-GF-5,08	**1943496**	50
IC 2,5 HC/10-GF-5,08	**1943506**	50
IC 2,5 HC/11-GF-5,08	**1943519**	50
IC 2,5 HC/12-GF-5,08	**1943522**	50

Dimensional drawing



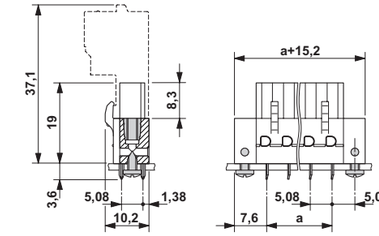
Drilling diagram



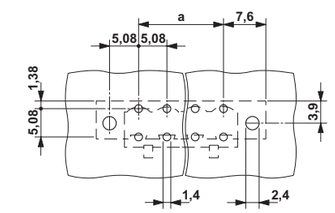
Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
ICV 2,5 HC/ 2-G-5,08	**1943535**	50
ICV 2,5 HC/ 3-G-5,08	**1943548**	50
ICV 2,5 HC/ 4-G-5,08	**1943551**	50
ICV 2,5 HC/ 5-G-5,08	**1943564**	50
ICV 2,5 HC/ 6-G-5,08	**1943577**	50
ICV 2,5 HC/ 7-G-5,08	**1943580**	50
ICV 2,5 HC/ 8-G-5,08	**1943593**	50
ICV 2,5 HC/ 9-G-5,08	**1943603**	50
ICV 2,5 HC/10-G-5,08	**1943616**	50
ICV 2,5 HC/11-G-5,08	**1943629**	50
ICV 2,5 HC/12-G-5,08	**1943632**	50

Dimensional drawing



Drilling diagram

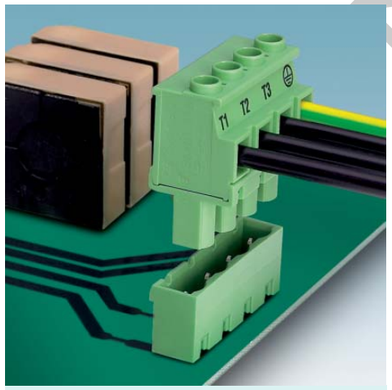


Ordering data

Type	Order No.	Pcs. / Pkt.
5.08 mm pitch, color: Green		
ICV 2,5 HC/ 2-GF-5,08	**1943645**	50
ICV 2,5 HC/ 3-GF-5,08	**1943658**	50
ICV 2,5 HC/ 4-GF-5,08	**1943661**	50
ICV 2,5 HC/ 5-GF-5,08	**1943674**	50
ICV 2,5 HC/ 6-GF-5,08	**1943687**	50
ICV 2,5 HC/ 7-GF-5,08	**1943690**	50
ICV 2,5 HC/ 8-GF-5,08	**1943700**	50
ICV 2,5 HC/ 9-GF-5,08	**1943713**	50
ICV 2,5 HC/10-GF-5,08	**1943726**	50
ICV 2,5 HC/11-GF-5,08	**1943739**	50
ICV 2,5 HC/12-GF-5,08	**1943742**	50

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Vertical plug-in connectors for 600 V UL



- High-capacity connectors for voltages of up to 1000 V as per IEC
- Plugs with unrestricted 600 V UL approval
- Plug-in direction vertical to the PCB
- GMVSTBR 2,5 HV...ST, conductor entry on the keying side of the plug, so conductor exit upward.
- GMVSTBW 2,5 HV...ST, conductor entry on the rippled side of the plug, so conductor exit downward.
- Compatible with the GMSTB 2,5/...-G-7,62 base strips, see page 342

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products**
or starting on page 484.

[1]) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



Connection point facing the smooth wall of the header (R), 600 V UL approval

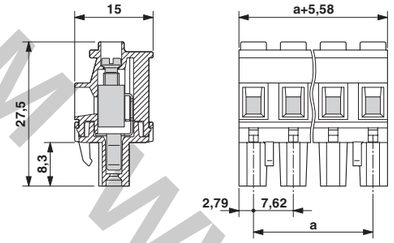


Connection point facing the rippled wall of the header (W), 600 V UL approval

Accessories

For all types	Type	Page
	Keying profile **CP-MSTB Order No. 1734634**	38
	Screwdriver **SZS 0,6 x 3,5 Order No. 1205053**	
	Marker cards **SK 7,62/3,8**	799

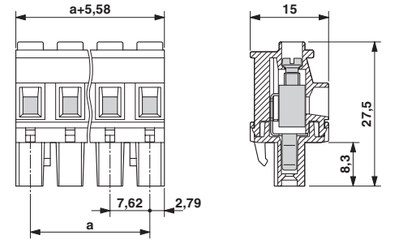
Dimensional drawing



Note derating curves

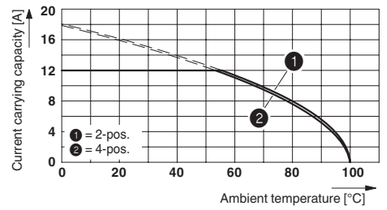
Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 2.5 mm²
Reduction factor = 0.8
Number of positions = see diagram

Dimensional drawing



Representative derating curve

Type: GMVSTBR 2,5 HV/...-ST-7,62 with GMSTBA 2,5/...-G-7,62



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	12[1]) / 2.5		
Rated insulation voltage for pollution degree 2	[V]	630		
Pitch	[mm]	7.62		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 2.5 / 0.2 - 2.5 / 24 - 12		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 2.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 2.5		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	0.2 - 1 / 0.2 - 1.5		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 1		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 1		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	500	630	1000
Rated surge voltage	[kV]	6	6	6
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	600	600	-
Nominal current	[A]	15	15	-
Connection capacity AWG	AWG	30 - 12	30 - 12	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Stripping length	[mm]	7		
Screw thread		M3		
Tightening torque	[Nm]	0.5 - 0.6		
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		

No. of pos.	Dim. a [mm]
2	7.62
3	15.24
4	22.86

Ordering data

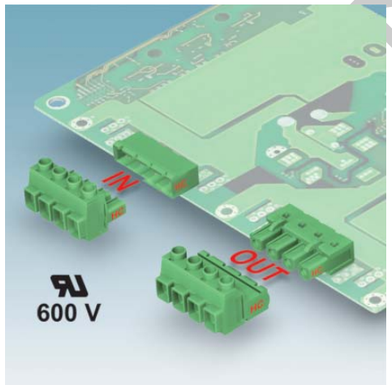
Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
GMVSTBR 2,5 HV/ 2-ST-7,62	**1774454**	50
GMVSTBR 2,5 HV/ 3-ST-7,62	**1993954**	50
GMVSTBR 2,5 HV/ 4-ST-7,62	**1774467**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
GMVSTBW 2,5 HV/ 2-ST-7,62	**1771910**	50
GMVSTBW 2,5 HV/ 3-ST-7,62	**1993967**	50
GMVSTBW 2,5 HV/ 4-ST-7,62	**1927221**	50

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Plugs with screw connection for 600 V UL



- High-capacity within minimum space: Current carrying capacity of 16 A in combination with an unrestricted 600-V-UL approval
- Compact 7.62 mm pitch
- GMSTB 2,5 HCV connectors should be used only with GMSTBA 2,5 HC base strips
- The double steel spring ensures additional safety, especially in case of temperature and capacity fluctuations
- The versions with Lock & Release levers lock the plug to the header and also serve as a release tool.
- Inverted GIC 2,5 HCV plugs with pin contacts

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

The designation "HC" is printed in red to provide clear identification of "High current" connectors.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

2) Diverging UL data with GIC 2,5 HCV/...-ST-7,62: nominal current = 16 A.

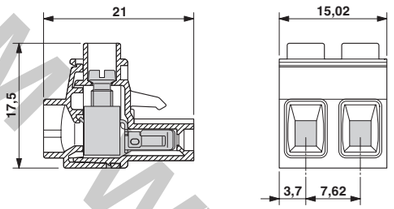
Accessories

For all types	Type	Page
	Keying profile **CP-MSTB** **Order No. 1734634**	38
	Marker cards **SK 7,62/3,8**	799
	Screwdriver **SZS 0,6 x 3,5** **Order No. 1205053**	



With socket contact, 600 V UL approval

Dimensional drawing



Note derating curves

Derating curves according to DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 2.5 mm²
Reduction factor = 0.8
No. of positions: See diagram

Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		Pitch 7.62 mm, color: Green		
2	7.62	**GMSTB 2,5 HCV/ 2-ST-7,62**	**1714278**	50
3	15.24	**GMSTB 2,5 HCV/ 3-ST-7,62**	**1714281**	50
4	22.86	**GMSTB 2,5 HCV/ 4-ST-7,62**	**1714294**	50
5	30.48	**GMSTB 2,5 HCV/ 5-ST-7,62**	**1714304**	50
6	38.10	**GMSTB 2,5 HCV/ 6-ST-7,62**	**1714317**	50
7	45.72	**GMSTB 2,5 HCV/ 7-ST-7,62**	**1714320**	50
8	53.34	**GMSTB 2,5 HCV/ 8-ST-7,62**	**1714333**	50
9	60.96	**GMSTB 2,5 HCV/ 9-ST-7,62**	**1714346**	50
10	68.58	**GMSTB 2,5 HCV/10-ST-7,62**	**1714359**	50
11	76.20	**GMSTB 2,5 HCV/11-ST-7,62**	**1714362**	50
12	83.82	**GMSTB 2,5 HCV/12-ST-7,62**	**1714375**	50

Technical data

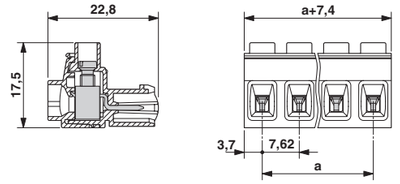
Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	16[1]) / 2.5		
Rated insulation voltage for pollution degree 2	[V]	1000		
Pitch	[mm]	7.62		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 2.5 / 0.2 - 2.5 / 24 - 12		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 2.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 2.5		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	0.2 - 1 / 0.2 - 1.5		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 1		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 1		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	1000	1000	1000
Rated surge voltage	[kV]	8	8	8
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	600	600	-
Nominal current	[A]	18.5[2])	18.5	-
Connection capacity AWG	AWG	30 - 12	30 - 12	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Stripping length	[mm]	8		
Screw thread		M3		
Tightening torque	[Nm]	0.5 - 0.6		
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		

N



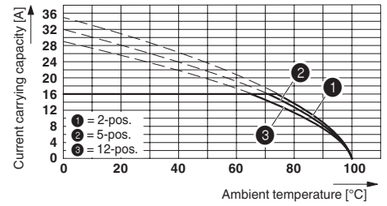
Inverted with pin contact, 600 V UL approval

Dimensional drawing



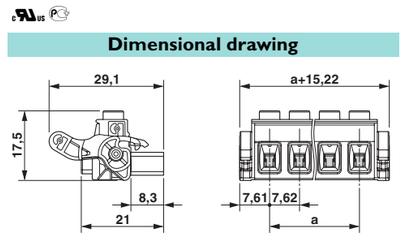
Representative derating curves of the above-mentioned plugs

Type: GMSTB 2,5 HCV/...-ST-7,62 with GMSTBA 2,5 HC/...-G-7,62



Ordering data

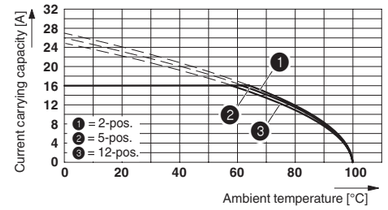
Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
GIC 2,5 HCV/ 2-ST-7,62	**1745629**	50
GIC 2,5 HCV/ 3-ST-7,62	**1745632**	50
GIC 2,5 HCV/ 4-ST-7,62	**1745645**	50
GIC 2,5 HCV/ 5-ST-7,62	**1745658**	50
GIC 2,5 HCV/ 6-ST-7,62	**1745661**	50
GIC 2,5 HCV/ 7-ST-7,62	**1745674**	50
GIC 2,5 HCV/ 8-ST-7,62	**1745687**	50
GIC 2,5 HCV/ 9-ST-7,62	**1745690**	50
GIC 2,5 HCV/10-ST-7,62	**1745700**	50
GIC 2,5 HCV/11-ST-7,62	**1745713**	50
GIC 2,5 HCV/12-ST-7,62	**1745726**	50



With socket contact, 600 V UL approval, Lock & Release locking

Dimensional drawing

Type_ GIC 2.5HCV/...-ST-7.62 with GIC 2.5HC/...-G-7.62

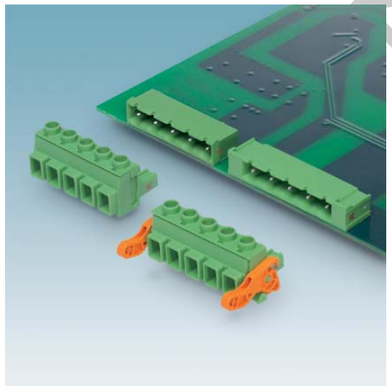


Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
GMSTB 2,5 HCV/ 2-ST-7,62-LR	**1812759**	50
GMSTB 2,5 HCV/ 3-ST-7,62-LR	**1812762**	50
GMSTB 2,5 HCV/ 4-ST-7,62-LR	**1812775**	50
GMSTB 2,5 HCV/ 5-ST-7,62-LR	**1812788**	50
GMSTB 2,5 HCV/ 6-ST-7,62-LR	**1812791**	50
GMSTB 2,5 HCV/ 7-ST-7,62-LR	**1812801**	50
GMSTB 2,5 HCV/ 8-ST-7,62-LR	**1812814**	50
GMSTB 2,5 HCV/10-ST-7,62-LR	**1812830**	50
GMSTB 2,5 HCV/10-ST-7,62-LR	**1812830**	50
GMSTB 2,5 HCV/11-ST-7,62-LR	**1812843**	50
GMSTB 2,5 HCV/12-ST-7,62-LR	**1812856**	50

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Headers with pin contact



- GMSTB 2,5 HC headers for combination with GMSTB 2,5 HCV plugs
- Compact 7.62 mm pitch
- CR-MSTB coding sections as protection against mismating
- Lock & Release versions lock the plug to the header and also serve as a release tool

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

The designation "HC" is printed in red to provide clear identification of "High current" connectors.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products**
or starting on page 484.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

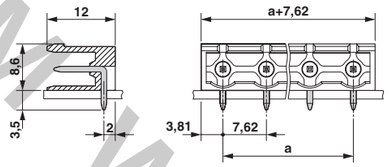
Accessories

For all types	Type	Page
	Keying section **CR-MSTB** **Order No.** **1734401**	38
	Marker cards **SK 7,62/3,8**	799
	Keying tab **MSTB-BL** **Order No.** **1755477**	837

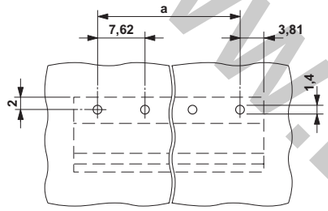


Horizontal

Dimensional drawing



Drilling diagram



Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		Pitch 7.62 mm, color: Green		
2	7.62	**GMSTBA 2,5 HC/ 2-G-7,62**	**1728853**	50
3	15.24	**GMSTBA 2,5 HC/ 3-G-7,62**	**1728866**	50
4	22.86	**GMSTBA 2,5 HC/ 4-G-7,62**	**1728879**	50
5	30.48	**GMSTBA 2,5 HC/ 5-G-7,62**	**1728882**	50
6	38.10	**GMSTBA 2,5 HC/ 6-G-7,62**	**1728895**	50
7	45.72	**GMSTBA 2,5 HC/ 7-G-7,62**	**1728905**	50
8	53.34	**GMSTBA 2,5 HC/ 8-G-7,62**	**1728918**	50
9	60.96	**GMSTBA 2,5 HC/ 9-G-7,62**	**1728921**	50
10	68.58	**GMSTBA 2,5 HC/10-G-7,62**	**1728934**	50
11	76.20	**GMSTBA 2,5 HC/11-G-7,62**	**1728947**	50
12	83.82	**GMSTBA 2,5 HC/12-G-7,62**	**1728950**	50

Technical data

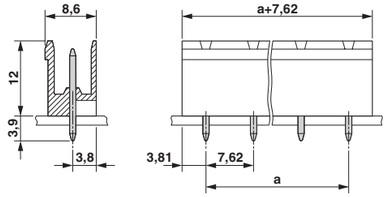
Technical data in accordance to IEC / DIN VDE				
Rated current	[A]	16¹)		
Rated insulation voltage for pollution degree 2	[V]	630		
Pitch	[mm]	7.62		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	500	630	1000
Rated surge voltage	[kV]	6	6	6
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	-	300
Nominal current	[A]	18.5	-	10
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.4 / 1 x 1 mm		

N

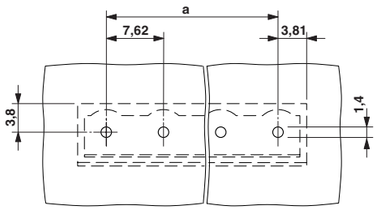


Vertical

Dimensional drawing



Drilling diagram



Ordering data

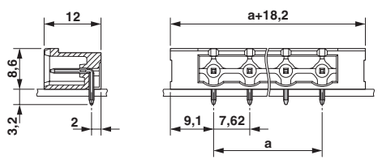
Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
GMSTBVA 2,5 HC/ 2-G-7,62	**1792397**	50
GMSTBVA 2,5 HC/ 3-G-7,62	**1767979**	50
GMSTBVA 2,5 HC/ 4-G-7,62	**1758179**	50
GMSTBVA 2,5 HC/ 5-G-7,62	**1773455**	50
GMSTBVA 2,5 HC/ 6-G-7,62	**1767050**	50
GMSTBVA 2,5 HC/ 7-G-7,62	**1792407**	50
GMSTBVA 2,5 HC/ 8-G-7,62	**1792410**	50
GMSTBVA 2,5 HC/ 9-G-7,62	**1792423**	50
GMSTBVA 2,5 HC/10-G-7,62	**1792436**	50
GMSTBVA 2,5 HC/11-G-7,62	**1792449**	50
GMSTBVA 2,5 HC/12-G-7,62	**1792452**	50

N

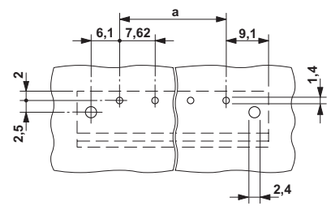


Lock & Release locking, horizontal

Dimensional drawing



Drilling diagram



Ordering data

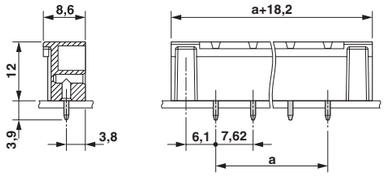
Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
GMSTBA 2,5 HC/ 2-G-7,62-LR	**1812869**	50
GMSTBA 2,5 HC/ 3-G-7,62-LR	**1812872**	50
GMSTBA 2,5 HC/ 4-G-7,62-LR	**1812885**	50
GMSTBA 2,5 HC/ 5-G-7,62-LR	**1812898**	50
GMSTBA 2,5 HC/ 6-G-7,62-LR	**1812908**	50
GMSTBA 2,5 HC/ 7-G-7,62-LR	**1812911**	50
GMSTBA 2,5 HC/ 8-G-7,62-LR	**1812924**	50
GMSTBA 2,5 HC/ 9-G-7,62-LR	**1812937**	50
GMSTBA 2,5 HC/10-G-7,62-LR	**1812940**	50
GMSTBA 2,5 HC/11-G-7,62-LR	**1812953**	50
GMSTBA 2,5 HC/12-G-7,62-LR	**1812966**	50

N

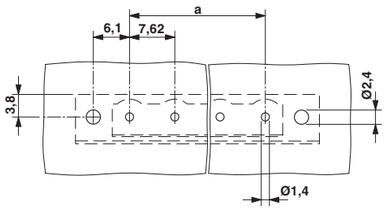


Lock & Release locking, vertical

Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
GMSTBVA 2,5 HC/ 2-G-7,62-LR	**1812979**	50
GMSTBVA 2,5 HC/ 3-G-7,62-LR	**1812982**	50
GMSTBVA 2,5 HC/ 4-G-7,62-LR	**1812995**	50
GMSTBVA 2,5 HC/ 5-G-7,62-LR	**1813004**	50
GMSTBVA 2,5 HC/ 6-G-7,62-LR	**1813017**	50
GMSTBVA 2,5 HC/ 7-G-7,62-LR	**1813020**	50
GMSTBVA 2,5 HC/ 8-G-7,62-LR	**1813033**	50
GMSTBVA 2,5 HC/ 9-G-7,62-LR	**1813046**	50
GMSTBVA 2,5 HC/10-G-7,62-LR	**1813059**	50
GMSTBVA 2,5 HC/11-G-7,62-LR	**1813062**	50
GMSTBVA 2,5 HC/12-G-7,62-LR	**1813075**	50

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Headers with socket contact



- Inverted GIC 2,5 HC headers with female contacts for touch-proof device outputs (with GIC 2,5 HCV/... –ST) or a PCB-PCB connection (with GMSTBA 2,5 HC/... -G)
- Maximum contact safety thanks to an integrated double steel spring
- Keying profile CP-MSTB as protection against mismatching
- Compact 7.62 mm pitch

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products**
or starting on page 484.

The designation "HC" is printed in red to provide clear identification of "High current" connectors.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



Horizontal

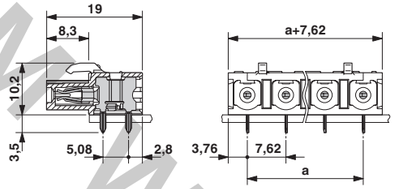


Vertical

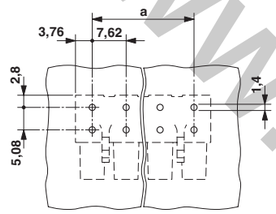
Accessories

For all types	Type	Page
	Keying profile **CP-MSTB** **Order No. 1734634**	38
	Marker cards **SK 7,62/3,8**	799
	Reducing plug **RPS** **Order No. 0201647**	831
	Test plug **MPS**	831

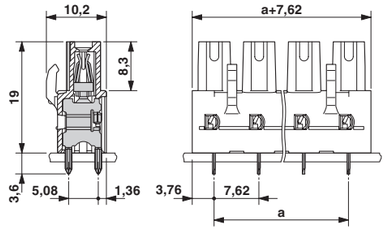
Dimensional drawing



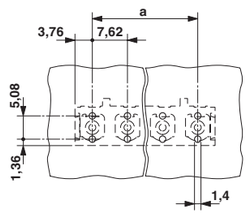
Drilling diagram



Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current	[A]	16¹)		
Rated insulation voltage for pollution degree 2	[V]	630		
Pitch	[mm]	7.62		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	630	630	1000
Rated surge voltage	[kV]	6	6	6
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	250	-	300
Nominal current	[A]	16	-	10
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.4 / 1,2 x 0,5		

No. of pos.	Dim. a [mm]
2	7.62
3	15.24
4	22.86
5	30.48
6	38.10
7	45.72
8	53.34
9	60.96
10	68.58
11	76.20
12	83.82

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
GIC 2,5 HC/ 2-G-7,62	**1745784**	50
GIC 2,5 HC/ 3-G-7,62	**1745797**	50
GIC 2,5 HC/ 4-G-7,62	**1745807**	50
GIC 2,5 HC/ 5-G-7,62	**1745810**	50
GIC 2,5 HC/ 6-G-7,62	**1745823**	50
GIC 2,5 HC/ 7-G-7,62	**1745836**	50
GIC 2,5 HC/ 8-G-7,62	**1745849**	50
GIC 2,5 HC/ 9-G-7,62	**1745852**	50
GIC 2,5 HC/10-G-7,62	**1745865**	50
GIC 2,5 HC/11-G-7,62	**1745878**	50
GIC 2,5 HC/12-G-7,62	**1745881**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
GICV 2,5 HC/ 2-G-7,62	**1756485**	50
GICV 2,5 HC/ 3-G-7,62	**1756498**	50
GICV 2,5 HC/ 4-G-7,62	**1756508**	50
GICV 2,5 HC/ 5-G-7,62	**1756511**	50
GICV 2,5 HC/ 6-G-7,62	**1756524**	50
GICV 2,5 HC/ 7-G-7,62	**1756537**	50
GICV 2,5 HC/ 8-G-7,62	**1756540**	50
GICV 2,5 HC/ 9-G-7,62	**1756553**	50
GICV 2,5 HC/10-G-7,62	**1756566**	50
GICV 2,5 HC/11-G-7,62	**1756579**	50
GICV 2,5 HC/12-G-7,62	**1756582**	50

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ME/ME MAX plug-in connectors/headers, 7.62 mm pitch



- Suitable for ME/ME MAX electronic housing
- 7.25 mm pitch for unlimited 600 V UL approval
- Orthogonal screw/plug-in connection
- 2 and 3 positions suitable for 17.5/35 mm and 22.5/45 mm housing width

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

GMSTBT 2,5 HV/...-ST-7,25 GY7035

No. of pos.	Dimension b [mm]
2	14.95
3	19.95

[1]) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

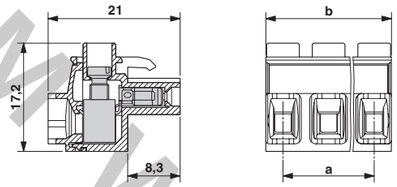


Suitable for GMSTBO 2,5 HV... headers, high-current-compatible

Accessories

For all types	Type	Page
	Keying profile **CP-MSTB Order No. 1734634**	38
	Marker cards **SK 7,5/3,8**	799
	Screwdriver **SZS 0,6 x 3,5 Order No. 1205053**	

Dimensional drawing



Representative derating curve

Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	16[1]) / 2.5		
Rated insulation voltage for pollution degree 2	[V]	1000		
Pitch	[mm]	7.25		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 2.5 / 0.2 - 2.5 / 24 - 12		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 2.5		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 2.5		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	0.1 - 1 / 0.2 - 1.5		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 1		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 1		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	1000	1000	1000
Rated surge voltage	[kV]	8	8	8
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	600	600	-
Nominal current	[A]	16	16	-
Connection capacity AWG	AWG	24 - 12	24 - 12	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Stripping length	[mm]	8		
Screw thread		M3		
Tightening torque	[Nm]	0.5 - 0.6		
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		

No. of pos.	Dim. a [mm]
2	7.25
3	14.50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch: 7.25 mm, color: light gray		
GMSTBT 2,5 HV/2-ST-7,25 GY7035	**2199757**	50
GMSTBT 2,5 HV/3-ST-7,25 GY7035	**2199553**	50

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ME/ME MAX plug-in connectors/headers, 7.62 mm pitch



- Suitable for ME/ME MAX electronic housing
- 7.25 mm pitch for unlimited 600 V UL approval
- Orthogonal screw/plug-in connection
- THR solderable
- 2 and 3 positions suitable for 17.5/35 mm and 22.5/45 mm housing width
- "Left" and "right" design
- Delivery form: Box packaging bulk material or tape-on-reel packing for automated mounting

Notes:

GMSTBO 2,5 HV/...-GL/GR

No. of pos.	Dimension b [mm]	Dimension c [mm]
2	14.95	8.00
3	19.95	16.00

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

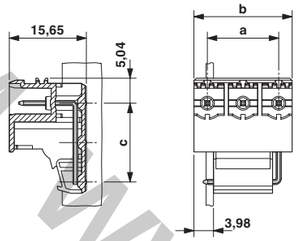
Accessories

For all types	Type	Page
	Keying section **CR-MSTBO G1 Order No. 2199618**	38
	Marker cards **SK 7,5/3,8**	799

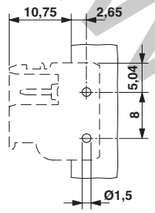


Header with "left" pin strip leading off at a right angle, box packaging

Dimensional drawing



Drilling diagram



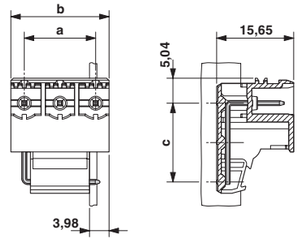
Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch: 7.25 mm, color: black		
GMSTBO 2,5 HV/ 2-GL-7,25 THR	**2199867**	50
GMSTBO 2,5 HV/ 3-GL-7,25 THR	**2199663**	50

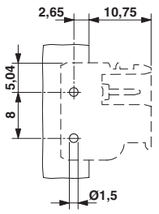


Header with "right" pin strip leading off at a right angle, box packaging

Dimensional drawing



Drilling diagram



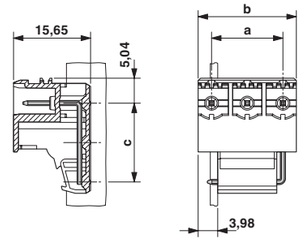
Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch: 7.25 mm, color: black		
GMSTBO 2,5 HV/ 2-GR-7,25 THR	**2199760**	50
GMSTBO 2,5 HV/ 3-GR-7,25 THR	**2199566**	50

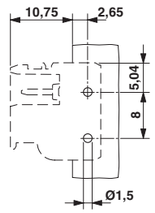


Header with "left" pin strip leading off at a right angle, tape-on-reel packing

Dimensional drawing



Drilling diagram



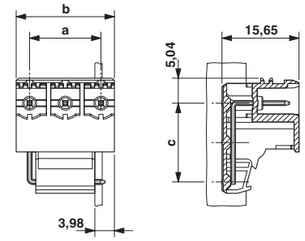
Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch: 7.25 mm, color: black		
GMSTBO 2,5 HV/ 2-GL-7,25THRR32	**2279703**	110
GMSTBO 2,5 HV/3-GL-7,25 THRR44	**2200263**	70

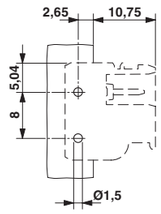


Header with "right" pin strip leading off at a right angle, tape-on-reel packing

Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch: 7.25 mm, color: black		
GMSTBO 2,5 HV/ 2-GR-7,25THRR32	**2279606**	110
GMSTBO 2,5 HV/3-GR-7,25 THRR44	**2200262**	70

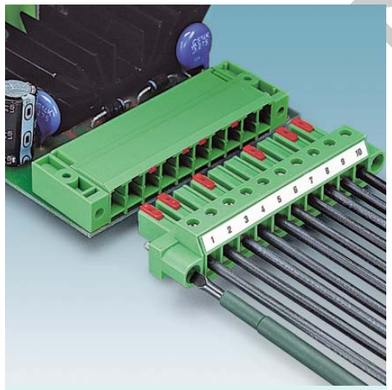
Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current	[A]	16¹)		
Rated insulation voltage for pollution degree 2	[V]	630		
Pitch	[mm]	-		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	400	630	630
Rated surge voltage	[kV]	6	6	6
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	150	300
Nominal current	[A]	16	16	10
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		LCP / IIIa		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.5 / 1,0 x 1,0 mm		

No. of pos.	Dim. a [mm]
	7.25
	14.50

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Plugs with screw and crimp connection



- High-capacity plugs with a current carrying capacity of 20 A
- Screw connection up to 4 mm², stranded
- Integrated double steel spring as extra safety against contact corrosion
- Available with 2 to 12-pos.
- Vibration-resistant connection with a screw flange (PC 4/...-STF-7,62)
- Plug components can be keyed using the CP-PC RD keying profiles

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products**
or starting on page 486.

[1]) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



Without screw flange



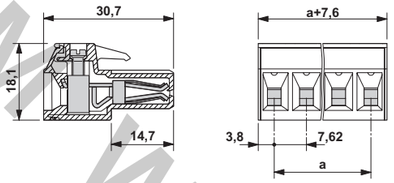
With screw flange



Accessories

For all types	Type	Page
	Keying profile **CP-PC RD** **Order No. 1701967**	38
	Marker cards **SK 7,62/3,8**	799
	Screwdriver **SZS 0,6 x 3,5** **Order No. 1205053**	

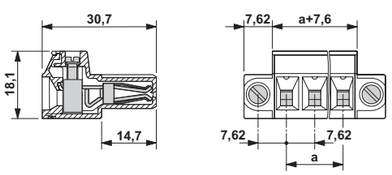
Dimensional drawing



Note derating curves

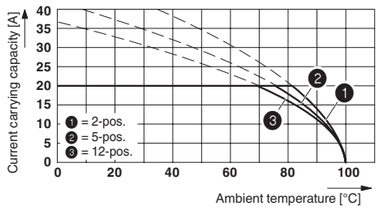
Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 4 mm²
Reduction factor = 0.8
Number of positions = see diagram

Dimensional drawing



Representative derating curve

Type: PC 4/..-ST-7,62 with PC 4/..-G-7,62



Note on PC 4 HV/...ST-7,62

As part of ongoing product improvements, the PC 4 HV plug-in connector range has been withdrawn.

A replacement is available in the form of the PC 5-ST1 plug-in connector. This connector offers the same space but even better performance data. This plug-in connector is available in the same version options and can be found from catalog page 524.

Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	20[1]) / 4		
Rated insulation voltage for pollution degree 2	[V]	630		
Pitch	[mm]	7.62		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 4 / 0.2 - 4 / 24 - 10		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 4		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 4		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	0.2 - 2.5 / 0.2 - 1.5		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 1.5		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 2.5		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	400	630	1000
Rated surge voltage	[kV]	6	6	6
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	300	600
Nominal current	[A]	20	20	5
Connection capacity AWG	AWG	30 - 10	30 - 10	30 - 10
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	300	300	-
Nominal current	[A]	20	20	-
Connection capacity AWG	AWG	28 - 10	28 - 10	-
General data				
Stripping length	[mm]	7		
Screw thread		M3		
Tightening torque	[Nm]	0.5 - 0.6		
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		

Ordering data

No. of pos.	Dim. a [mm]
2	7.62
3	15.24
4	22.86
5	30.48
6	38.10
7	45.72
8	53.34
9	60.96
10	68.58
11	76.20
12	83.82

Ordering data

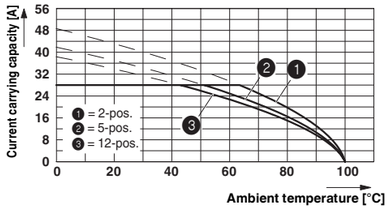
Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
PC 4/ 2-ST-7,62	**1804904**	50
PC 4/ 3-ST-7,62	**1804917**	50
PC 4/ 4-ST-7,62	**1804920**	50
PC 4/ 5-ST-7,62	**1804933**	50
PC 4/ 6-ST-7,62	**1804946**	50
PC 4/ 7-ST-7,62	**1804959**	50
PC 4/ 8-ST-7,62	**1804962**	50
PC 4/ 9-ST-7,62	**1804975**	50
PC 4/10-ST-7,62	**1804988**	50
PC 4/11-ST-7,62	**1804991**	50
PC 4/12-ST-7,62	**1805000**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
PC 4/ 2-STF-7,62	**1828249**	50
PC 4/ 3-STF-7,62	**1828252**	50
PC 4/ 4-STF-7,62	**1828265**	50
PC 4/ 5-STF-7,62	**1828278**	50
PC 4/ 6-STF-7,62	**1828281**	50
PC 4/ 7-STF-7,62	**1828294**	50
PC 4/ 8-STF-7,62	**1828304**	50
PC 4/ 9-STF-7,62	**1828317**	50
PC 4/10-STF-7,62	**1828320**	50
PC 4/11-STF-7,62	**1828333**	50
PC 4/12-STF-7,62	**1827583**	50

Representative derating curve

Type: PC 5-ST1 with PC 4-G (4 mm²)



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Plugs with screw and crimp connection



- Low height of the PCC 4 series
- Plug-in direction parallel to the conductor axis
- Latching option for pull-out aid
- Compatible with PC 4 headers for PCB and PCVK 4- and UPCV3K headers for DIN rail mounting
- Crimp contacts available loose and on tape

STG-MTN 0,5-1,0
- for conductor cross sections from 0.5 to 1.0 mm² (AWG 20-18)

STG-MTN 1,5-2,5
- for conductor cross sections from 1.5 to 2.5 mm² (16-14 AWG)

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products**
or starting on page 486.

[1]) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

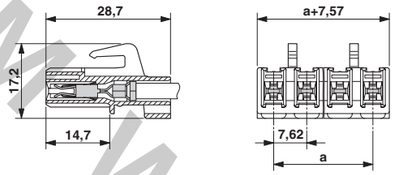


Plugs for crimp contacts

Accessories

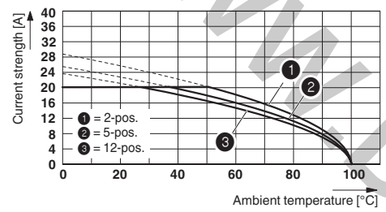
For all types	Type	Page
	**Module female connector,** 0.5 to 2.5 mm² **STG-MTN...**	827
	Crimping pliers for 0.5 to 2.5 mm² **CRIMPFOX MT 2,5 Order No. 1204038**	
	**Contact removal tool STG-EW Order No. 3190441**	
	Pullout aid **STZ...-PCC 4-7,62**	828
	Keying profile **CP-HCC 4 Order No. 1600027**	38
	Marker cards **SK 7,62/3,8**	799

Dimensional drawing



Representative derating curve

Type: PCC 4/...-ST-7,62 with PC 4/...-G-7,62



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	20[1]) / 4		
Rated insulation voltage for pollution degree 2	[V]	1000		
Pitch	[mm]	7.62		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	- / 0.5 - 2.5 / 20 - 14		
Stranded with ferrules without plastic sleeve	[mm²]	-		
Stranded with ferrules with plastic sleeve	[mm²]	-		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	- / -		
Stranded with ferrules without plastic sleeve	[mm²]	-		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	-		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	400	1000	1000
Rated surge voltage	[kV]	8	8	8
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	600	600	-
Nominal current	[A]	10	10	-
Connection capacity AWG	AWG	20 - 14	20 - 14	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	300	300	-
Nominal current	[A]	10	10	-
Connection capacity AWG	AWG	20 - 14	20 - 14	-
General data				
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		

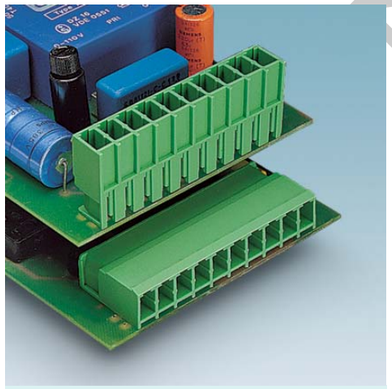
No. of pos.	Dim. a [mm]
2	7.62
3	15.24
4	22.86
5	30.48
6	38.10
7	45.72
8	53.34
9	60.96
10	68.58
11	76.20
12	83.82

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
PCC 4/ 2-ST-7,62	**1840191**	50
PCC 4/ 3-ST-7,62	**1840188**	50
PCC 4/ 4-ST-7,62	**1840175**	50
PCC 4/ 5-ST-7,62	**1840162**	50
PCC 4/ 6-ST-7,62	**1840159**	50
PCC 4/ 7-ST-7,62	**1840146**	50
PCC 4/ 8-ST-7,62	**1840133**	50
PCC 4/ 9-ST-7,62	**1840120**	50
PCC 4/10-ST-7,62	**1840117**	50
PCC 4/11-ST-7,62	**1840104**	50
PCC 4/12-ST-7,62	**1840094**	50

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Headers with pin contact



- PC 4 headers for use in combination with all PC 4 plugs
- Horizontal and vertical (PCV) versions available with 2 to 12-pos.
- Vibration-resistant connection with separate mounting flange BF-PC 4 (also for screw connection in the device)
- Shroud PCB-SHIELD for a professional EMC shield connection
- CP-PC RD keying profile as protection against mismating

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products**
or starting on page 486.

Mounting screw for PC(V) 4-G-7,62 with BF-PC 4: sheet metal screw ISO 1481-ST 2,9x9,5 C. Screw connection only permitted prior to soldering.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

2) Insulation material/insulation material class for the 10-, 11- and 12-pos. versions: PBT/IIIa



Horizontal

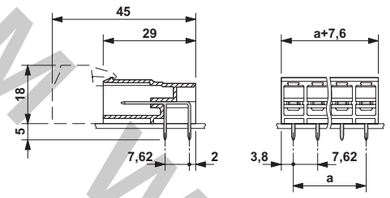


Vertical

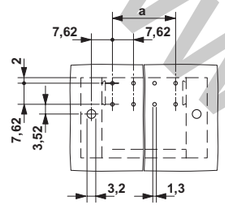
Accessories

For all types	Type	Page
	Mounting flange for lateral snapping on **BF-PC 4** **Order No. 1827570**	
	Keying profile **CP-PC RD** **Order No. 1701967**	38
	Marker cards **SK 7,62/3,8**	799
Only for PC 4/...-G-7,62		
	Shroud **POWER COMBICON PCB-SHIELD** **Order No. 1968387**	

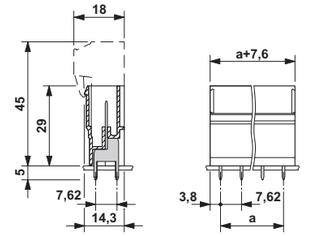
Dimensional drawing



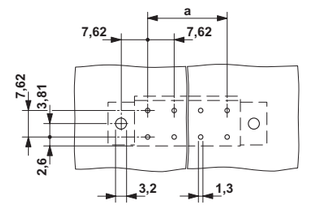
Drilling diagram



Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current	[A]	20¹)		
Rated insulation voltage for pollution degree 2	[V]	630		
Pitch	[mm]	7.62		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	400	630	630
Rated surge voltage	[kV]	6	6	6
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	300	-
Nominal current	[A]	20	20	-
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	300	300	-
Nominal current	[A]	20	20	-
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		PA / I²)		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.3 / 1 x 0,8 mm		

No. of pos.	Dim. a [mm]
2	7.62
3	15.24
4	22.86
5	30.48
6	38.10
7	45.72
8	53.34
9	60.96
10	68.58
11	76.20
12	83.82

Ordering data

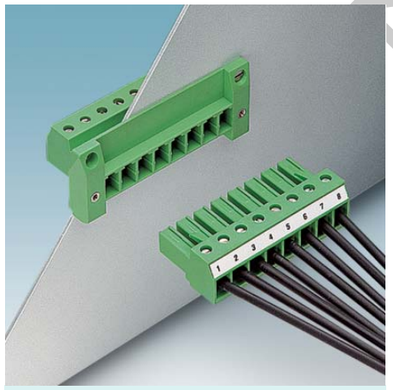
Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
PC 4/ 2-G-7,62	**1804797**	50
PC 4/ 3-G-7,62	**1804807**	50
PC 4/ 4-G-7,62	**1804810**	50
PC 4/ 5-G-7,62	**1804823**	50
PC 4/ 6-G-7,62	**1804836**	50
PC 4/ 7-G-7,62	**1804849**	50
PC 4/ 8-G-7,62	**1804852**	50
PC 4/ 9-G-7,62	**1804865**	50
PC 4/10-G-7,62	**1804878**	50
PC 4/11-G-7,62	**1804881**	50
PC 4/12-G-7,62	**1804894**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
PCV 4/ 2-G-7,62	**1804687**	50
PCV 4/ 3-G-7,62	**1804690**	50
PCV 4/ 4-G-7,62	**1804700**	50
PCV 4/ 5-G-7,62	**1804713**	50
PCV 4/ 6-G-7,62	**1804726**	50
PCV 4/ 7-G-7,62	**1804739**	50
PCV 4/ 8-G-7,62	**1804742**	50
PCV 4/ 9-G-7,62	**1804755**	50
PCV 4/10-G-7,62	**1804768**	50
PCV 4/11-G-7,62	**1804771**	50
PCV 4/12-G-7,62	**1804784**	50

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Feed-through header with a male contact



- Feed-through connectors for wall thicknesses from 1 to 5 mm
- Can be plugged onto PC 4 and PC 5 connectors
- A screw connection on the inside of the device
- Lateral mounting flange (screw set, refer to accessories)
- Can be mounted either from outside or pre-wired and mounted from inside

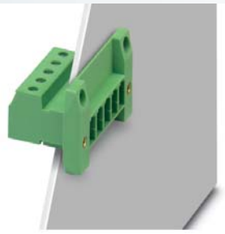
Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

The cutout dimensions for the feed-through versions can be found on page 595.

Derating curves according to DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 4 mm²
Reduction factor = 0.8
No. of positions: See diagram

[1]) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

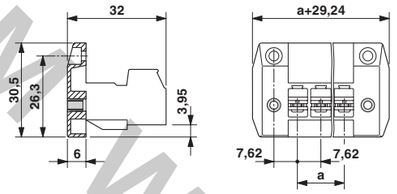


With screw connection on the inside of the device

Accessories

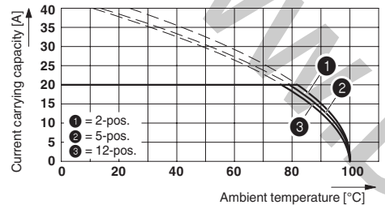
For all types	Type	Page
	One screw set M3 x 10 mm **DFK-MSTB-SS** **Order No. 0708263**	
	Keying profile **CP-PC RD** **Order No. 1701967**	38
	Marker cards **SK 7,62/3,8**	799
	Screwdriver **SZS 0,6 x 3,5** **Order No. 1205053**	

Dimensional drawing



Representative derating curve

Type: PC 4/...-ST-7,62 with DFK-PC 4/...-GF-7,62



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	20[1]) / 4		
Rated insulation voltage for pollution degree 2	[V]	630		
Pitch	[mm]	7.62		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 4 / 0.2 - 4 / 24 - 10		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 4		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 4		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	0.2 - 2.5 / 0.2 - 2.5		
Stranded with ferrules without plastic sleeve	[mm²]	0.2 - 1.5		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 2.5		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	400	630	1000
Rated surge voltage	[kV]	6	6	6
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	300	600
Nominal current	[A]	35	35	5
Connection capacity AWG	AWG	30 - 10	30 - 10	30 - 10
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	300	300	-
Nominal current	[A]	20	20	-
Connection capacity AWG	AWG	28 - 10	28 - 10	-
General data				
Stripping length	[mm]	7		
Screw thread		M3		
Tightening torque	[Nm]	0.5 - 0.6		
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		

Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		Pitch 7.62 mm, color: Green		
2	7.62	**DFK-PC 4/ 2-GF-7,62**	**1840557**	50
3	15.24	**DFK-PC 4/ 3-GF-7,62**	**1840560**	50
4	22.86	**DFK-PC 4/ 4-GF-7,62**	**1840573**	50
5	30.48	**DFK-PC 4/ 5-GF-7,62**	**1840586**	50
6	38.10	**DFK-PC 4/ 6-GF-7,62**	**1840599**	50
7	45.72	**DFK-PC 4/ 7-GF-7,62**	**1840609**	50
8	53.34	**DFK-PC 4/ 8-GF-7,62**	**1840612**	50
9	60.96	**DFK-PC 4/ 9-GF-7,62**	**1840625**	50
10	68.58	**DFK-PC 4/10-GF-7,62**	**1840638**	50
11	76.20	**DFK-PC 4/11-GF-7,62**	**1840641**	50
12	83.82	**DFK-PC 4/12-GF-7,62**	**1840654**	50

Feed-through header with a male contact



- Feed-through connectors for wall thicknesses from 1 to 5 mm
- Can be plugged onto PC 4 and PC 5 connectors
- Slip-on connection on the inside of the device (solder connection on request)
- Lateral mounting flange (screw set, refer to accessories)

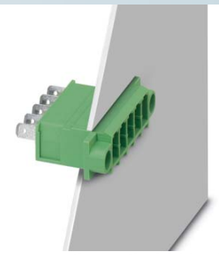
Notes:

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products**
or starting on page 486.

The cutout dimensions for the feed-through versions can be found on page 595.

Derating curves according to DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 2.5 mm²
Reduction factor = 0.8
No. of positions: See diagram

[1]) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

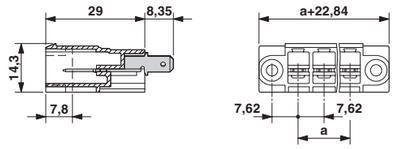


With slip-on connection on the inside of the device

Accessories

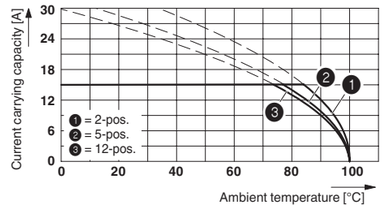
For all types	Type	Page
	One screw set M3 x 10 mm **DFK-MSTB-SS** **Order No. 0708263**	
	Keying profile **CP-PC RD** **Order No. 1701967**	38
	Marker cards **SK 7,62/3,8**	799
	Screwdriver **SZS 0,6 x 3,5** **Order No. 1205053**	

Dimensional drawing



Representative derating curve

Type: PC 4/..-ST-7,62 with DFK-PC 4/..-G-7,62-FS4,8



Technical data

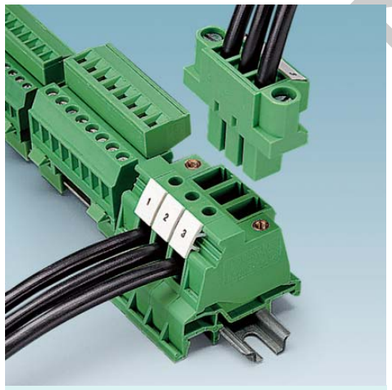
Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	15[1]) / 4		
Rated insulation voltage for pollution degree 2	[V]	400		
Pitch	[mm]	7.62		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	400	400	800
Rated surge voltage	[kV]	6	6	6
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	300	-
Nominal current	[A]	20	20	-
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	300	300	-
Nominal current	[A]	20	20	-
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V2		
Slip-on connection (DIN 46249-1)	[A]/[mm]	- / 4,8 x 0,8 mm		

Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		Pitch 7.62 mm, color: Green		
2	7.62	**DFK-PC 4/ 2-G-7,62-FS4,8**	**1861154**	50
3	15.24	**DFK-PC 4/ 3-G-7,62-FS4,8**	**1861167**	50
4	22.86	**DFK-PC 4/ 4-G-7,62-FS4,8**	**1861170**	50
5	30.48	**DFK-PC 4/ 5-G-7,62-FS4,8**	**1861183**	50
6	38.10	**DFK-PC 4/ 6-G-7,62-FS4,8**	**1861196**	50
7	45.72	**DFK-PC 4/ 7-G-7,62-FS4,8**	**1861206**	50
8	53.34	**DFK-PC 4/ 8-G-7,62-FS4,8**	**1861219**	50
9	60.96	**DFK-PC 4/ 9-G-7,62-FS4,8**	**1861222**	50
10	68.58	**DFK-PC 4/10-G-7,62-FS4,8**	**1861235**	50
11	76.20	**DFK-PC 4/11-G-7,62-FS4,8**	**1861248**	50
12	83.82	**DFK-PC 4/12-G-7,62-FS4,8**	**1861251**	50

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Headers with pin contact for DIN rail mounting



- PCVK 4 and UPCV3K 4 establish the pluggable connection between the electronics and the control cabinet
- For mounting on NS 35/... and NS 15... DIN rail according to EN 60715 – or for the UPCV3K 4-G-7,62 – for mounting on NS 35/... and NS 32 DIN rail
- Can be plugged onto PC 4 and PC 5 connector range
- Vibration-resistant connection with flange terminal blocks that can be aligned (-F)
- UPCV3K provides three connector outputs for each terminal point

Notes:

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products**
or starting on page 486.

For DIN rails, see Catalog 5.

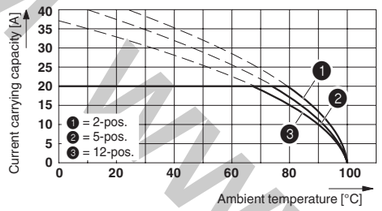
[1]) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

Accessories

For all types	Type	Page
	Keying profile **CP-PC RD** **Order No. 1701967**	38
	Screwdriver **SZS 0,6 x 3,5** **Order No. 1205053**	
	Zack marker strip **ZB 7,62**	805

Representative derating curve

Type: PC 4/...-ST-7,62 with PCVK 4-7,62
DIN EN 61984 (VDE 0627):2002-09 Thermal test group C
Derating curve, representation based on DIN EN 60512-5-2:2003-01
connected conductor cross section = 4 mm²
Reduction factor = 0.8
No. of positions: See diagram



Technical data

		PCVK 4-7,62			PCVK 4-7,62-PE			UPCV3K 4-G-7,62		
Technical data in accordance to IEC / DIN VDE										
Rated current / conductor cross section	[A] / [mm²]	20[1]) / 4			20[1]) / 4			20[1]) / 4		
Rated insulation voltage for pollution degree 2	[V]	630			630			1000		
Pitch	[mm]	7.62			7.62			7.62		
Connection capacity										
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 4 / 0.2 - 4 / 24 - 12			0.2 - 4 / 0.2 - 4 / 24 - 12			0.2 - 4 / 0.2 - 4 / 24 - 10		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 4			0.25 - 4			0.25 - 4		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 4			0.25 - 4			0.25 - 4		
Multi-conductor connection capacity (two conductors with the same cross section)										
Solid / stranded	[mm²]	0.25 - 2.5 / 0.25 - 2.5			0.25 - 2.5 / 0.25 - 2.5			0.25 - 2.5 / 0.25 - 2.5		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 1.5			0.25 - 1.5			0.25 - 1.5		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 2.5			0.5 - 2.5			0.5 - 2.5		
Insulation coordination										
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	500	630	1000	500	630	1000	800	1000	1000
Rated surge voltage	[kV]	6	6	6	6	6	6	8	8	8
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	300	300	600	-	-	-	300	300	600
Nominal current	[A]	20	20	5	-	-	-	20	20	5
Connection capacity AWG	AWG	30 - 10	30 - 10	30 - 10	-	-	-	30 - 10	30 - 10	30 - 10
Approval data (CSA)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	300	300	-	-	-	-	-	-	-
Nominal current	[A]	20	20	-	20	20	-	-	-	-
Connection capacity AWG	AWG	28 - 10	28 - 10	-	-	-	-	-	-	-
General data										
Stripping length	[mm]	10			10			10		
Screw thread		M3			M3			M3		
Tightening torque	[Nm]	0.5 - 0.6			0.5 - 0.6			0.5 - 0.6		
Type of insulation material / insulation material group		PA / I			PA / I			PA / I		
Inflammability class according to UL 94		V0			V0			V0		



Single terminal block

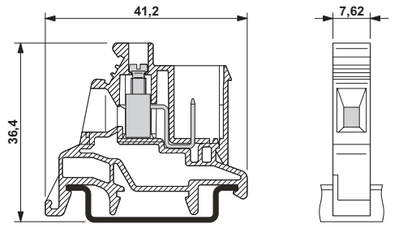


Single terminal block as protective conductor

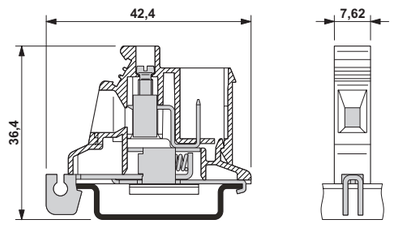


Single terminal block with 3 plug entries

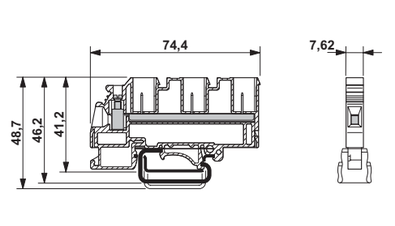
Dimensional drawing



Dimensional drawing



Dimensional drawing



No. of pos.	Ordering data Type	Order No.	Pcs. / Pkt.
1	**Pitch 7.62 mm, color: Green**		
	PCVK 4-7,62	**1849998**	50
	Flange cover, fitted on the left and right of PCVK 4-7,62 for reliable screw connection of plugs with screw flanges, pitch: 7.62 mm, color: Green		
1	**PCVK 4-7,62-F**	**1850000**	50

Ordering data Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green-yellow		
PCVK 4-7,62-PE	**1876246**	50

Ordering data Type	Order No.	Pcs. / Pkt.
Terminal block, with three vertical COMBICON (Power) connectors/exits, for mounting on NS 32 or NS 35		
UPCV3K 4-G-7,62	**1838381**	50
Flange cover, fitted on the left and right of UPCV3K 4-G-7,62 for reliable screw connection with the plugs with screw flanges		
UPCV3K-F	**1881202**	50

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Cable housing for PC 4 plug-in connectors



- Ergonomical cable housing for the standard PC 4 connectors with a screw connection
- 3 to 5-pos. and 6 to 12-pos. housing versions are available with and without a mounting flange (-F)
- KGG-PC 4 for cable diameters from 4 to 13.5 mm²
- KGS-PC 4 (angled cable outlet) for cable diameters from 6 to 16 mm²
- A cable clamp can be mounted back to front

Notes:

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products**
or starting on page 486.

Accessories

For all types	Type	Page
	Transparent marker carrier **KGS-MSTB 2,5/DST Order No. 1784914**	
	Marker strips, unprinted, 10-section **SBS 2,5/7,5 Order No. 1007604**	



3-5 positions, with straight cable connection



3-15 positions, with straight cable outlet and screw flange

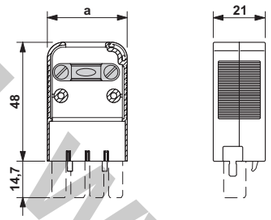


6-12 positions, with angled cable connection

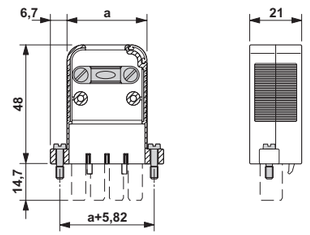


6-12 positions, with angled cable connection and screw flange

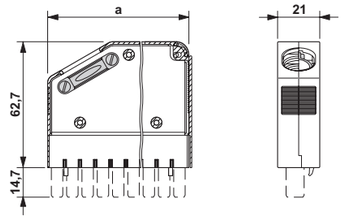
Dimensional drawing



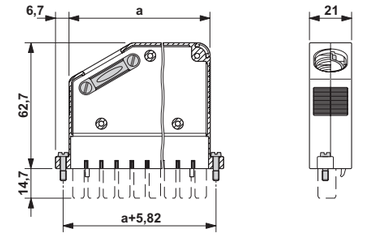
Dimensional drawing



Dimensional drawing



Dimensional drawing



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	- / -		
Rated insulation voltage for pollution degree 2	[V]	-		
Pitch	[mm]	0		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]			
Rated surge voltage	[kV]			
General data				
Type of insulation material / insulation material group		ABS / 0		
Inflammability class according to UL 94		HB		

No. of pos.	Dim. a [mm]
3	24.66
4	32.28
5	39.90
6	47.52
7	55.14
8	62.76
9	70.38
10	78.00
11	85.62
12	93.24
6	47.52
7	55.14
8	62.76
9	70.98
10	78.00
11	85.62
12	93.24

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
KGG-PC 4/ 3	**1837227**	10
KGG-PC 4/ 4	**1837230**	10
KGG-PC 4/ 5	**1837243**	10

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
KGG-PC 4/ 3-F	**1837324**	10
KGG-PC 4/ 4-F	**1837337**	10
KGG-PC 4/ 5-F	**1837340**	10

Ordering data

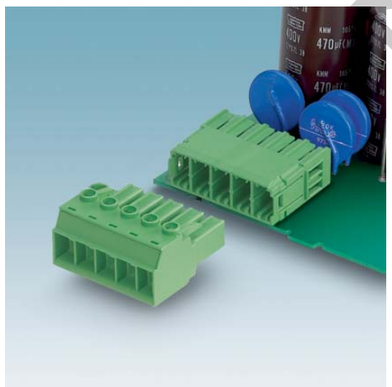
Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
KGS-PC 4/ 6	**1837256**	10
KGS-PC 4/ 7	**1837269**	10
KGS-PC 4/ 8	**1837272**	10
KGS-PC 4/ 9	**1837285**	10
KGS-PC 4/10	**1837298**	10
KGS-PC 4/11	**1837308**	10
KGS-PC 4/12	**1837311**	10

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
KGS-PC 4/ 6-F	**1837353**	10
KGS-PC 4/ 7-F	**1837366**	10
KGS-PC 4/ 8-F	**1837379**	10
KGS-PC 4/ 9-F	**1837382**	10
KGS-PC 4/10-F	**1837395**	10
KGS-PC 4/11-F	**1837405**	10
KGS-PC 4/12-F	**1837418**	10

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Plugs with screw connection, pin/socket contact



- High-capacity plugs with a current carrying capacity of 41 A and a connection capacity of 6 mm², flexible/10 mm² solid
- Unrestricted 600-V-UL approval
- Maximum contact safety thanks to an integrated double steel spring
- An automatic toolless snap-lock mechanism with the click and lock system (-STCL); high degree of safety also in the case of vibrations
- Further features: Screw flange (-STF) and shield (-SH)
- CP-PC keying profile as protection against mismating

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products**
or starting on page 486.

[1]) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

[2]) Tightening torque for ≤ 4 mm² = 0.5 to 0.6 Nm
Tightening torque for > 4 mm² = 0.7 to 0.8 Nm

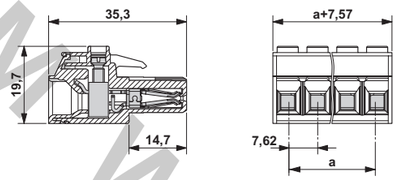
Accessories

For all types	Type	Page
	Keying profile **CP-PC RD Order No. 1701967**	38
	Marker cards **SK 7,62/3,8**	799



Without screw flange, 600 V UL approval

Dimensional drawing



Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Reduction factor = 0.8
No. of positions: See diagram

Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		Pitch 7.62 mm, color: Green		
2	7.62	**PC 5/ 2-ST1-7,62**	**1777723**	50
3	15.24	**PC 5/ 3-ST1-7,62**	**1777736**	50
4	22.86	**PC 5/ 4-ST1-7,62**	**1777749**	50
5	30.48	**PC 5/ 5-ST1-7,62**	**1777752**	50
6	38.10	**PC 5/ 6-ST1-7,62**	**1777765**	50
7	45.72	**PC 5/ 7-ST1-7,62**	**1777778**	50
8	53.34	**PC 5/ 8-ST1-7,62**	**1777781**	50
9	60.96	**PC 5/ 9-ST1-7,62**	**1777794**	50
10	68.58	**PC 5/10-ST1-7,62**	**1777804**	50
11	76.20	**PC 5/11-ST1-7,62**	**1777817**	50
12	83.82	**PC 5/12-ST1-7,62**	**1777820**	50

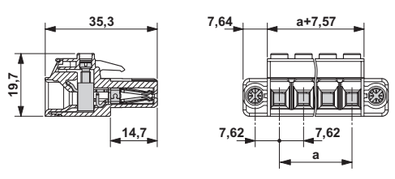
Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	41[1]) / 10		
Rated insulation voltage for pollution degree 2	[V]	1000		
Pitch	[mm]	7.62		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 10 / 0.2 - 6 / 24 - 10		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 6		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 4		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	0.2 - 2.5 / 0.2 - 4		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 1.5		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.25 - 2.5		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	1000	1000	1000
Rated surge voltage	[kV]	8	8	6
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	600	600	-
Nominal current	[A]	41	41	-
Connection capacity AWG	AWG	24 - 8	24 - 8	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Stripping length	[mm]	10		
Screw thread		M3		
Tightening torque	[Nm]	0.5 - 0.8[2])		
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		



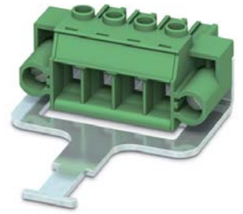
With screw flange, 600 V UL approval

Dimensional drawing



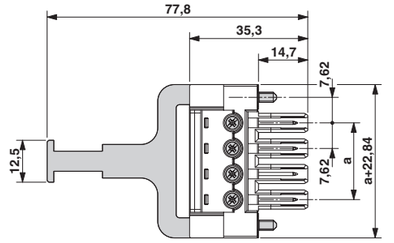
Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
PC 5/ 2-STF1-7,62	**1777833**	50
PC 5/ 3-STF1-7,62	**1777846**	50
PC 5/ 4-STF1-7,62	**1777859**	50
PC 5/ 5-STF1-7,62	**1777862**	50
PC 5/ 6-STF1-7,62	**1777875**	50
PC 5/ 7-STF1-7,62	**1777888**	50
PC 5/ 8-STF1-7,62	**1777891**	50
PC 5/ 9-STF1-7,62	**1777901**	50
PC 5/10-STF1-7,62	**1777914**	50
PC 5/11-STF1-7,62	**1777927**	50
PC 5/12-STF1-7,62	**1777930**	50



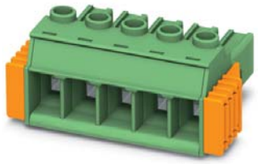
With screw flange and shield, 600 V UL approval

Dimensional drawing



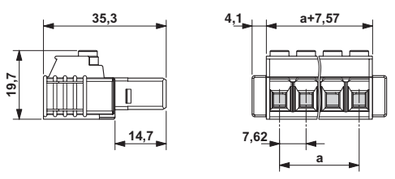
Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
PC 5/ 2-STF-SH1-7,62	**1778175**	50
PC 5/ 3-STF-SH1-7,62	**1778188**	50
PC 5/ 4-STF-SH1-7,62	**1778191**	50
PC 5/ 7-STF-SH1-7,62	**1778201**	50



With Click and Lock system, compatible with PC 5 headers and STGCL plug components, 600 V UL approval

Dimensional drawing

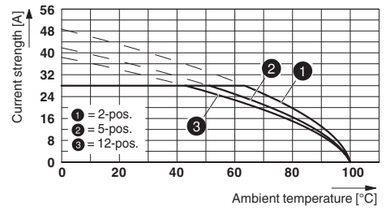


Ordering data

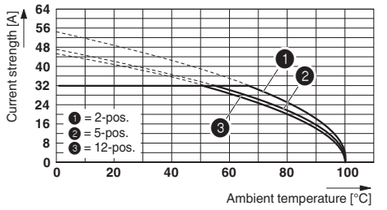
Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
PC 5/ 2-STCL1-7,62	**1778065**	50
PC 5/ 3-STCL1-7,62	**1778078**	50
PC 5/ 4-STCL1-7,62	**1778081**	50
PC 5/ 5-STCL1-7,62	**1778094**	50
PC 5/ 6-STCL1-7,62	**1778104**	50
PC 5/ 7-STCL1-7,62	**1778117**	50
PC 5/ 8-STCL1-7,62	**1778120**	50
PC 5/ 9-STCL1-7,62	**1778133**	50
PC 5/10-STCL1-7,62	**1778146**	50
PC 5/11-STCL1-7,62	**1778159**	50
PC 5/12-STCL1-7,62	**1778162**	50

Representative derating curves of the above-mentioned plugs

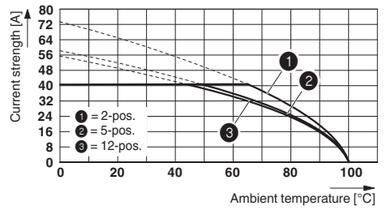
Type: PC 5/...ST1-7,62 with PC 4/....-G-7,62
Conductor cross section: 4 mm²



Type: PC 5/...-ST1-7,62 with PC 5/...-G-7,62
Conductor cross section: 6 mm²

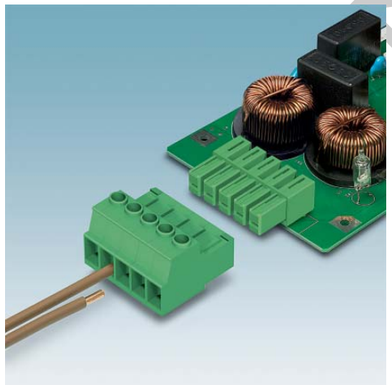


Type: PC 5/...-ST1-7,62 with PC 5/...-G-7,62
Conductor cross section: 10 mm²



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Plugs with screw connection, pin/socket contact



- Inverted IPC 5 plugs with pin contacts for touch-proof device outputs (with IPC 5 G) or free-hanging cable/cable connections
- Unrestricted 600-V-UL approval
- Can be plugged into PC 5 plugs or inverted IPC 5 headers
- An automatic snap-on mechanism without tools for cable-cable connections with the Click and Lock system (-STGCL); high degree of safety even in case of vibrations
- STGF plug with threaded flange

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products**
or starting on page 486.

[1]) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

Accessories

For all types	Type	Page
	Keying profile **CP-PC RD** **Order No. 1701967**	38
	Screwdriver **SZK PZ 1** **Order No. 1206450**	
	Marker cards **SK 7,62/3,8**	799



Without screw flange, 600 V UL approval



With screw flange, 600 V UL approval

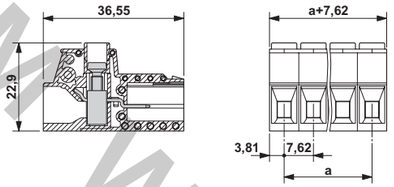


With threaded flange, 600 V UL approval

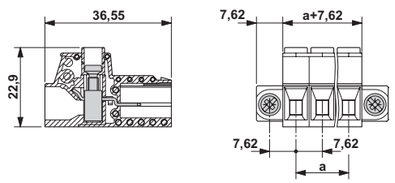


With Click and Lock system, compatible with STCL plugs, 600 V UL approval

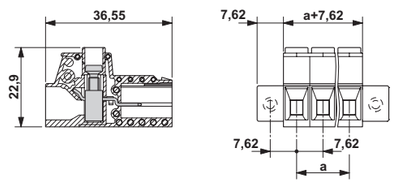
Dimensional drawing



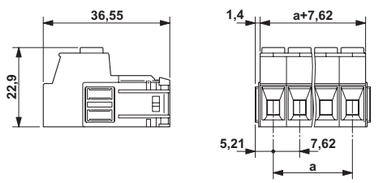
Dimensional drawing



Dimensional drawing



Dimensional drawing

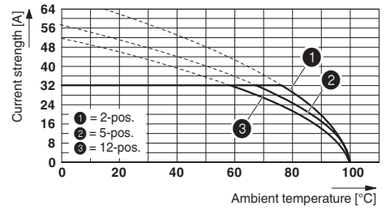


Note derating curves

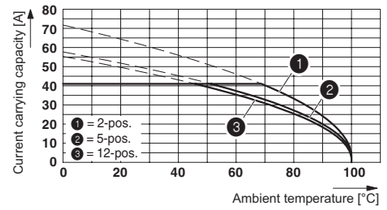
Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Reduction factor = 0.8
No. of positions: See diagram

Representative derating curves of the above-mentioned plugs

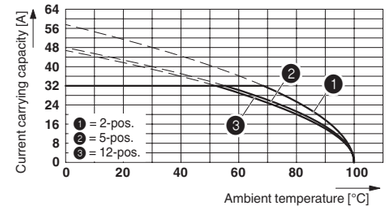
Type: IPC 5/...-ST-7,62 with PC 5/...-ST1-7,62
Conductor cross section: 6 mm²



Type: IPC 5/...-ST-7,62 with IPC 5/...-G-7,62
Conductor cross section = 10 mm²



Type: IPC 5/...-ST-7,62 with IPC 5/...-G-7,62
Conductor cross section 6 mm²



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	41[1]) / 10		
Rated insulation voltage for pollution degree 2	[V]	1000		
Pitch	[mm]	7.62		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 10 / 0.2 - 6 / 24 - 10		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 6		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 4		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	0.2 - 2.5 / 0.2 - 4		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 1.5		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.25 - 2.5		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	1000	1000	1000
Rated surge voltage	[kV]	8	8	6
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	600	600	-
Nominal current	[A]	41	41	-
Connection capacity AWG	AWG	24 - 8	24 - 8	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Stripping length	[mm]	10		
Screw thread		M3		
Tightening torque	[Nm]	0.7 - 0.8		
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		

No. of pos.	Dim. a [mm]
2	7.62
3	15.24
4	22.86
5	30.48
6	38.10
7	45.72
8	53.34
9	60.96
10	68.58
11	76.20
12	83.82

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
IPC 5/ 2-ST-7,62	**1709047**	50
IPC 5/ 3-ST-7,62	**1709050**	50
IPC 5/ 4-ST-7,62	**1709063**	50
IPC 5/ 5-ST-7,62	**1709076**	50
IPC 5/ 6-ST-7,62	**1709089**	50
IPC 5/ 7-ST-7,62	**1709092**	50
IPC 5/ 8-ST-7,62	**1709102**	50
IPC 5/ 9-ST-7,62	**1709115**	50
IPC 5/10-ST-7,62	**1709128**	50
IPC 5/11-ST-7,62	**1709131**	50
IPC 5/12-ST-7,62	**1709144**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
IPC 5/ 2-STF-7,62	**1709157**	50
IPC 5/ 3-STF-7,62	**1709160**	50
IPC 5/ 4-STF-7,62	**1709173**	50
IPC 5/ 5-STF-7,62	**1709186**	50
IPC 5/ 6-STF-7,62	**1709199**	50
IPC 5/ 7-STF-7,62	**1709209**	50
IPC 5/ 8-STF-7,62	**1709212**	50
IPC 5/ 9-STF-7,62	**1709225**	50
IPC 5/10-STF-7,62	**1709238**	50
IPC 5/11-STF-7,62	**1709241**	50
IPC 5/12-STF-7,62	**1709254**	50

Ordering data

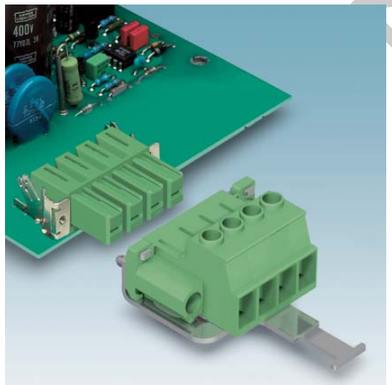
Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
IPC 5/ 2-STGF-7,62	**1709267**	50
IPC 5/ 3-STGF-7,62	**1709270**	50
IPC 5/ 4-STGF-7,62	**1709283**	50
IPC 5/ 5-STGF-7,62	**1709296**	50
IPC 5/ 6-STGF-7,62	**1709306**	50
IPC 5/ 7-STGF-7,62	**1709319**	50
IPC 5/ 8-STGF-7,62	**1709322**	50
IPC 5/ 9-STGF-7,62	**1709335**	50
IPC 5/10-STGF-7,62	**1709348**	50
IPC 5/11-STGF-7,62	**1709351**	50
IPC 5/12-STGF-7,62	**1709364**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
IPC 5/ 2-STGCL-7,62	**1718261**	50
IPC 5/ 3-STGCL-7,62	**1718274**	50
IPC 5/ 4-STGCL-7,62	**1718287**	50
IPC 5/ 5-STGCL-7,62	**1718290**	50
IPC 5/ 6-STGCL-7,62	**1718300**	50
IPC 5/ 7-STGCL-7,62	**1718313**	50
IPC 5/ 8-STGCL-7,62	**1718326**	50
IPC 5/ 9-STGCL-7,62	**1718339**	50
IPC 5/10-STGCL-7,62	**1718342**	50
IPC 5/11-STGCL-7,62	**1718355**	50
IPC 5/12-STGCL-7,62	**1718368**	50

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Plugs with screw connection, pin/socket contact



- The SH versions provide a professional EMC shield for adherence to the EMC requirements and an optional strain relief
- Unrestricted 600-V-UL approval
- Can be plugged into PC 5 plugs or inverted IPC 5 headers
- Increased vibration protection for cable/cable connections thanks to screw-on STGF plugs

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products**
or starting on page 486.

[1]) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



With screw flange and shield, 600 V UL approval

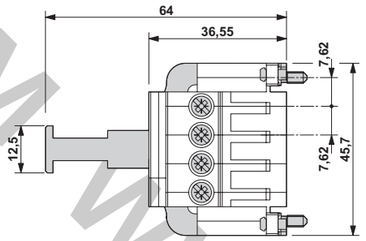


With threaded flange and shield, 600 V UL approval

Accessories

For all types	Type	Page
	Keying profile **CP-PC RD** **Order No. 1701967**	38
	Screwdriver **SZK PZ 1** **Order No. 1206450**	
	Marker cards **SK 7,62/3,8**	799

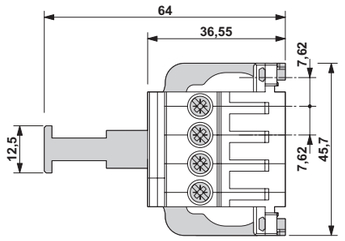
Dimensional drawing



Note derating curves

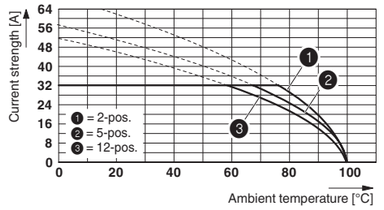
Derating curves according to DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Number of positions = see diagram

Dimensional drawing



Representative derating curve

Type: IPC 5/...-ST-7,62 with PC 5/...-ST1-7,62
Conductor cross section: 6 mm²



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	41[1]) / 10		
Rated insulation voltage for pollution degree 2	[V]	1000		
Pitch	[mm]	7.62		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 10 / 0.2 - 6 / 24 - 10		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 6		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 4		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	0.2 - 2.5 / 0.2 - 4		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 1.5		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.25 - 2.5		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	1000	1000	1000
Rated surge voltage	[kV]	8	8	6
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	600	600	-
Nominal current	[A]	41	41	-
Connection capacity AWG	AWG	24 - 8	24 - 8	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Stripping length	[mm]	10		
Screw thread		M3		
Tightening torque	[Nm]	0.7 - 0.8		
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		

No. of pos.	Dim. a [mm]
4	22.86

Ordering data

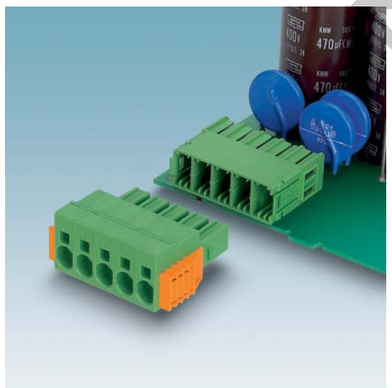
Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
IPC 5/ 4-STF-SH-7,62	**1709380**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
IPC 5/ 4-STGF-SH-7,62	**1709377**	50

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Plugs with push-in spring connection, pin/socket contact



- Push-in spring connection with a current carrying capacity of 41 A
- Fast connection method thanks to principle of direct plug-in without tools
- Unrestricted 600-V-UL approval
- Maximum contact safety thanks to an integrated double steel spring
- An automatic snap-on mechanism without tools with the Click and Lock system (-STCL); high degree of safety even in case of vibrations
- The SH versions provide a professional shield and an optional strain relief
- CP-PC RD keying profile

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products**
or starting on page 486.

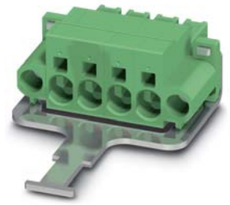
[1]) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



Without screw flange, 600 V UL approval



With screw flange, 600 V UL approval



With screw flange and shield, 600 V UL approval



With Click and Lock system, compatible with PC 5 headers and STGCL plug components, 600 V UL approval

Accessories

For all types	Type	Page
	Keying profile **CP-PC RD Order No. 1701967**	38
	Screwdriver **SZF 1-0,6 x 3,5 Order No. 1204517**	
	Marker cards **SK 7,62/3,8**	799
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm² **CRIMPFOX 6 Order No. 1212034**	

Dimensional drawing

Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Reduction factor = 0.8
No. of positions: See diagram

Dimensional drawing

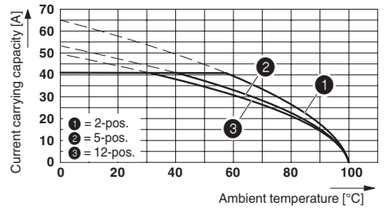


Dimensional drawing

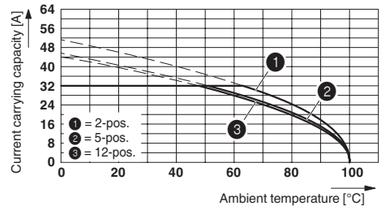
Dimensional drawing

Representative derating curves of the above-mentioned plugs

Type: SPC 5/...-ST-7,62 with PC 5/...-G-7,62
Conductor cross section: 10 mm²



Type: SPC 5/...-ST-7,62 with PC 5/...-G-7,62
Conductor cross section: 6 mm²



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	41[1]) / 10		
Rated insulation voltage for pollution degree 2	[V]	1000		
Pitch	[mm]	7.62		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 10 / 0.2 - 6 / 24 - 8		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 6		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 4		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	- / -		
Stranded with ferrules without plastic sleeve	[mm²]	-		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.25 - 1.5		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	1000	1000	1000
Rated surge voltage	[kV]	8	8	6
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	600	600	-
Nominal current	[A]	35	35	-
Connection capacity AWG	AWG	24 - 8	24 - 8	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Stripping length	[mm]	15		
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		

Ordering data

No. of pos.	Dim. a [mm]
2	7.62
3	15.24
4	22.86
5	30.48
6	38.10
7	45.72
8	53.34
9	60.96
10	68.58
11	76.20
12	83.82

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
SPC 5/ 2-ST-7,62	**1996016**	50
SPC 5/ 3-ST-7,62	**1996029**	50
SPC 5/ 4-ST-7,62	**1996032**	50
SPC 5/ 5-ST-7,62	**1996045**	50
SPC 5/ 6-ST-7,62	**1996058**	50
SPC 5/ 7-ST-7,62	**1996061**	50
SPC 5/ 8-ST-7,62	**1996074**	50
SPC 5/ 9-ST-7,62	**1996087**	50
SPC 5/10-ST-7,62	**1996090**	50
SPC 5/11-ST-7,62	**1996100**	50
SPC 5/12-ST-7,62	**1996113**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
SPC 5/ 2-STF-7,62	**1996126**	50
SPC 5/ 3-STF-7,62	**1996139**	50
SPC 5/ 4-STF-7,62	**1996142**	50
SPC 5/ 5-STF-7,62	**1996155**	50
SPC 5/ 6-STF-7,62	**1996168**	50
SPC 5/ 7-STF-7,62	**1996171**	50
SPC 5/ 8-STF-7,62	**1996184**	50
SPC 5/ 9-STF-7,62	**1996197**	50
SPC 5/10-STF-7,62	**1996207**	50
SPC 5/11-STF-7,62	**1996210**	50
SPC 5/12-STF-7,62	**1996223**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
SPC 5/ 4-STF-SH-7,62	**1704071**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
SPC 5/ 2-STCL-7,62	**1718481**	50
SPC 5/ 3-STCL-7,62	**1718494**	50
SPC 5/ 4-STCL-7,62	**1718504**	50
SPC 5/ 5-STCL-7,62	**1718517**	50
SPC 5/ 6-STCL-7,62	**1718520**	50
SPC 5/ 7-STCL-7,62	**1718533**	50
SPC 5/ 8-STCL-7,62	**1718546**	50
SPC 5/ 9-STCL-7,62	**1718559**	50
SPC 5/10-STCL-7,62	**1718562**	50
SPC 5/11-STCL-7,62	**1718575**	50
SPC 5/12-STCL-7,62	**1718588**	50

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Plugs with push-in spring connection, pin/socket contact



- Push-in spring connection with TWIN connection
- Simple potential distribution through two terminal points per contact
- Fast connection method thanks to principle of direct plug-in without tools
- Unrestricted 600-V-UL approval
- Maximum contact safety thanks to an integrated double steel spring
- An automatic snap-on mechanism without tools with the Click and Lock system (-STCL); high degree of safety even in case of vibrations
- Further features: Screw flange (-STF)
- CP-PC RD keying profile

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products**
or starting on page 486.

[1]) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

Accessories

For all types	Type	Page
	Screwdriver **SZF 1-0,6 x 3,5 Order No. 1204517**	
	Keying profile **CP-PC RD Order No. 1701967**	38
	Marker cards **SK 7,62/3,8**	799
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm² **CRIMPFOX 6 Order No. 1212034**	

Without screw flange, 600 V UL approval



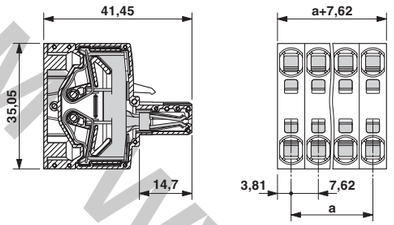
With screw flange, 600 V UL approval



With Click and Lock system, compatible with PC 5 headers and STGCL plug components, 600 V UL approval



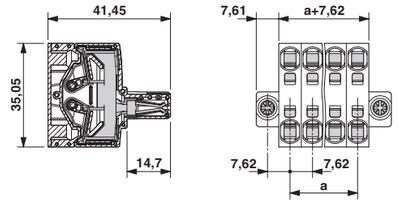
Dimensional drawing



Note derating curves

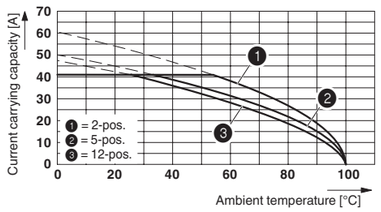
Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 10 mm²
Reduction factor = 0.8
Number of positions = see diagram

Dimensional drawing

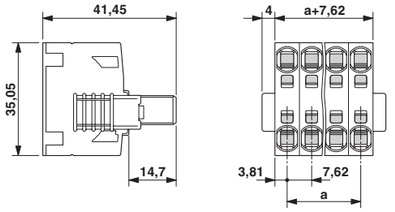


Representative derating curve

Type: TSPC 5/...-ST-7,62 with PC 5/...-G-7,62



Dimensional drawing



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	41[1]) / 10		
Rated insulation voltage for pollution degree 2	[V]	1000		
Pitch	[mm]	7.62		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 10 / 0.2 - 6 / 24 - 8		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 6		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 4		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	- / -		
Stranded with ferrules without plastic sleeve	[mm²]	-		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.25 - 1.5		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	1000	1000	1000
Rated surge voltage	[kV]	8	8	6
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	600	600	-
Nominal current	[A]	31	31	-
Connection capacity AWG	AWG	24 - 8	24 - 8	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Stripping length	[mm]	15		
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		

No. of pos.	Dim. a [mm]
2	7.62
3	15.24
4	22.86
5	30.48
6	38.10
7	45.72
8	53.34
9	60.96
10	68.58
11	76.20
12	83.82

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
TSPC 5/ 2-ST-7,62	**1728455**	50
TSPC 5/ 3-ST-7,62	**1728468**	50
TSPC 5/ 4-ST-7,62	**1728471**	50
TSPC 5/ 5-ST-7,62	**1728484**	50
TSPC 5/ 6-ST-7,62	**1728497**	25
TSPC 5/ 7-ST-7,62	**1728507**	25
TSPC 5/ 8-ST-7,62	**1728510**	25
TSPC 5/ 9-ST-7,62	**1728523**	25
TSPC 5/10-ST-7,62	**1728536**	25
TSPC 5/11-ST-7,62	**1728549**	25
TSPC 5/12-ST-7,62	**1728552**	25

Ordering data

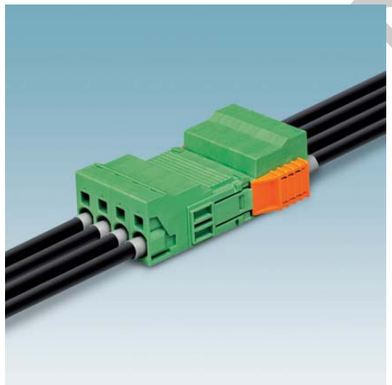
Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
TSPC 5/ 2-STF-7,62	**1728206**	50
TSPC 5/ 3-STF-7,62	**1728219**	50
TSPC 5/ 4-STF-7,62	**1728222**	50
TSPC 5/ 5-STF-7,62	**1728235**	50
TSPC 5/ 6-STF-7,62	**1728248**	25
TSPC 5/ 7-STF-7,62	**1728251**	25
TSPC 5/ 8-STF-7,62	**1728264**	25
TSPC 5/ 9-STF-7,62	**1728277**	25
TSPC 5/10-STF-7,62	**1728280**	25
TSPC 5/11-STF-7,62	**1728293**	25
TSPC 5/12-STF-7,62	**1728303**	25

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
TSPC 5/ 2-STCL-7,62	**1765418**	10
TSPC 5/ 3-STCL-7,62	**1765421**	10
TSPC 5/ 4-STCL-7,62	**1765434**	10
TSPC 5/ 5-STCL-7,62	**1765447**	10
TSPC 5/ 6-STCL-7,62	**1765450**	10
TSPC 5/ 7-STCL-7,62	**1765463**	10
TSPC 5/ 8-STCL-7,62	**1765476**	10
TSPC 5/ 9-STCL-7,62	**1765489**	10
TSPC 5/10-STCL-7,62	**1765492**	10
TSPC 5/11-STCL-7,62	**1765502**	10
TSPC 5/12-STCL-7,62	**1765515**	10

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Plugs with push-in spring connection, pin/socket contact



- Inverted ISPC 5 push-in spring connection plugs with pin contact for touch-proof device outputs (with IPC 5 G) or free-hanging cable/cable connections (with SPC 5 ST)
- Unrestricted 600-V-UL approval
- Increased vibration protection thanks to screw-on STF plug with screw flange
- STGF plug with threaded flange

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products**
or starting on page 486.

[1]) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

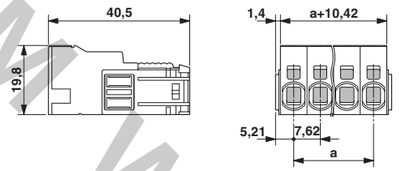
Accessories

For all types	Type	Page
	Keying profile **CP-PC RD** **Order No. 1701967**	38
	Screwdriver **SZF 1-0,6 x 3,5** **Order No. 1204517**	
	Marker cards **SK 7,62/3,8**	799
	Ferrules with and without plastic sleeve	834
	Crimping pliers for 0.25 to 6 mm² **CRIMPFOX 6** **Order No. 1212034**	



With Click and Lock system, compatible with STCL plugs, 600 V UL approval

Dimensional drawing



Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 6 mm²
Reduction factor = 0.8
Number of positions = see diagram

Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	41[1]) / 10		
Rated insulation voltage for pollution degree 2	[V]	1000		
Pitch	[mm]	7.62		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 10 / 0.2 - 6 / 24 - 8		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 6		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 4		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	- / -		
Stranded with ferrules without plastic sleeve	[mm²]	-		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.25 - 1.5		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	1000	1000	1000
Rated surge voltage	[kV]	8	8	6
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	600	600	-
Nominal current	[A]	35	35	-
Connection capacity AWG	AWG	24 - 8	24 - 8	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Stripping length	[mm]	15		
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		

No. of pos.	Dim. a [mm]
2	7.62
3	15.24
4	22.86
5	30.48
6	38.10
7	45.72
8	53.34
9	60.96
10	68.58
11	76.20
12	83.82

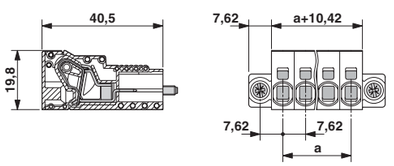
Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
ISPC 5/ 2-STGCL-7,62	**1748862**	50
ISPC 5/ 3-STGCL-7,62	**1748875**	50
ISPC 5/ 4-STGCL-7,62	**1748888**	50
ISPC 5/ 5-STGCL-7,62	**1748891**	50
ISPC 5/ 6-STGCL-7,62	**1748901**	50
ISPC 5/ 7-STGCL-7,62	**1748914**	50
ISPC 5/ 8-STGCL-7,62	**1748927**	50
ISPC 5/ 9-STGCL-7,62	**1748930**	50
ISPC 5/10-STGCL-7,62	**1748943**	50
ISPC 5/11-STGCL-7,62	**1748956**	50
ISPC 5/12-STGCL-7,62	**1748969**	50



With screw flange, 600 V UL approval

Dimensional drawing



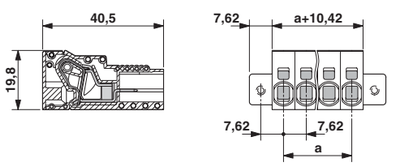
Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
ISPC 5/ 2-STF-7,62	**1748972**	50
ISPC 5/ 3-STF-7,62	**1748985**	50
ISPC 5/ 4-STF-7,62	**1748998**	50
ISPC 5/ 5-STF-7,62	**1749007**	50
ISPC 5/ 6-STF-7,62	**1749010**	50
ISPC 5/ 7-STF-7,62	**1749023**	50
ISPC 5/ 8-STF-7,62	**1749036**	50
ISPC 5/ 9-STF-7,62	**1749049**	50
ISPC 5/10-STF-7,62	**1749052**	50
ISPC 5/11-STF-7,62	**1749065**	50
ISPC 5/12-STF-7,62	**1749078**	50



With threaded flange, 600 V UL approval

Dimensional drawing

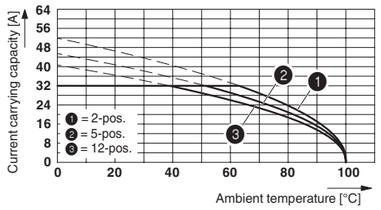


Ordering data

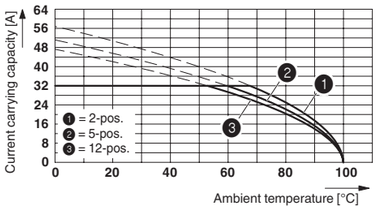
Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
ISPC 5/ 2-STGF-7,62	**1749201**	50
ISPC 5/ 3-STGF-7,62	**1749214**	50
ISPC 5/ 4-STGF-7,62	**1749227**	50
ISPC 5/ 5-STGF-7,62	**1749230**	50
ISPC 5/ 6-STGF-7,62	**1749243**	50
ISPC 5/ 7-STGF-7,62	**1749256**	50
ISPC 5/ 8-STGF-7,62	**1749269**	50
ISPC 5/ 9-STGF-7,62	**1749272**	50
ISPC 5/10-STGF-7,62	**1749285**	50
ISPC 5/11-STGF-7,62	**1749298**	50
ISPC 5/12-STGF-7,62	**1749308**	50

Representative derating curves of the above-mentioned plugs

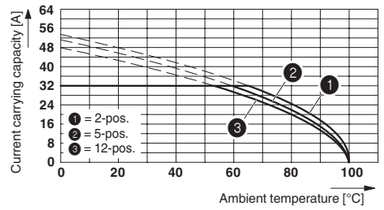
Type: ISPC 5/...-STGCL-7,62 with IPC 5/...-G-7,62



Type: ISPC 5/...-STGCL-7,62 with IPCV 5/...-G-7,62

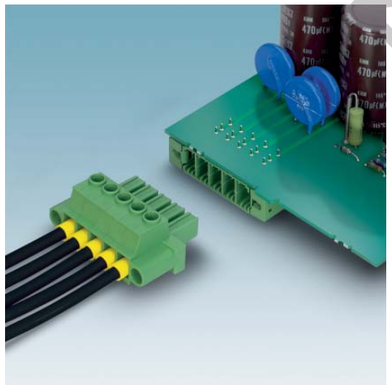


Type: ISPC 5/...-STGCL-7,62 with SPC 5/...-ST-7,62



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Headers with pin contact



- PC 5 headers for use in combination with PC 5 plugs
- If the GU headers are used, the plug is rotated by 180° before fitting
- Vibration-resistant connection with a threaded flange (-GF; also for screw connection in the device)
- Compatible with the Click and Lock system
- Shroud PCB-SHIELD for a professional EMC shield connection
- CP-PC RD keying profile as protection against mismating
- Suitable for 600 V UL when used in combination with PC 5 screw or spring-cage plugs

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products**
or starting on page 486.

Mounting screw for PC 5/...-GF-7,62 and PC 5/...-GFU-7,62: sheet metal screw ISO 1481-ST 2,9 C. Screw connection only permitted prior to soldering.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

Accessories

For all types	Type	Page
	Keying profile **CP-PC RD** **Order No.** **1701967**	38
	Marker cards **SK 7,62/3,8**	799
Only for PC 5/...-G-7,62 and PC 5/...-GU-7,62		
	Shroud **POWER COMBICON PCB-SHIELD** **Order No.** **1968387**	



Compatible with STCL plugs



With threaded flange

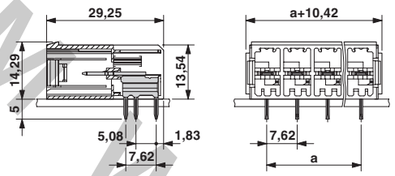


Rotated 180°, compatible with STCL plugs

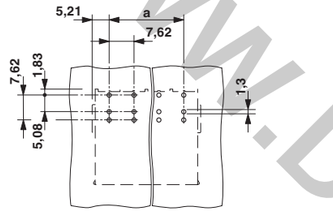


Rotated 180°, with threaded flange

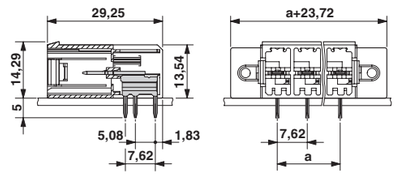
Dimensional drawing



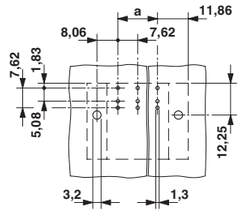
Drilling diagram



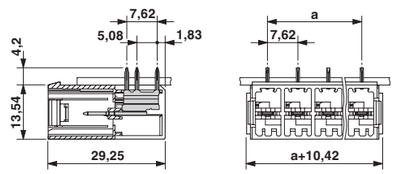
Dimensional drawing



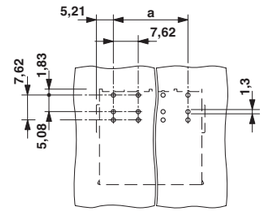
Drilling diagram



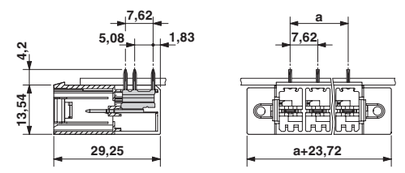
Dimensional drawing



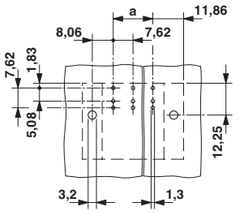
Drilling diagram



Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current	[A]	41¹)		
Rated insulation voltage for pollution degree 2	[V]	630		
Pitch	[mm]	7.62		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	630	630	1000
Rated surge voltage	[kV]	6	6	6
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	150	300
Nominal current	[A]	41	41	10
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.3 / 0,8 x 1,0		

No. of pos.	Dim. a [mm]
2	7.62
3	15.24
4	22.86
5	30.48
6	38.10
7	45.72
8	53.34
9	60.96
10	68.58
11	76.20
12	83.82

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
PC 5/ 2-G-7,62	**1720466**	50
PC 5/ 3-G-7,62	**1720479**	50
PC 5/ 4-G-7,62	**1720482**	50
PC 5/ 5-G-7,62	**1720495**	50
PC 5/ 6-G-7,62	**1720505**	50
PC 5/ 7-G-7,62	**1720518**	50
PC 5/ 8-G-7,62	**1720521**	50
PC 5/ 9-G-7,62	**1720534**	50
PC 5/10-G-7,62	**1720547**	50
PC 5/11-G-7,62	**1720550**	50
PC 5/12-G-7,62	**1720563**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
PC 5/ 2-GF-7,62	**1720796**	50
PC 5/ 3-GF-7,62	**1720806**	50
PC 5/ 4-GF-7,62	**1720819**	50
PC 5/ 5-GF-7,62	**1720822**	50
PC 5/ 6-GF-7,62	**1720835**	50
PC 5/ 7-GF-7,62	**1720848**	50
PC 5/ 8-GF-7,62	**1720851**	50
PC 5/ 9-GF-7,62	**1720864**	50
PC 5/10-GF-7,62	**1720877**	50
PC 5/11-GF-7,62	**1720880**	50
PC 5/12-GF-7,62	**1720893**	50

Ordering data

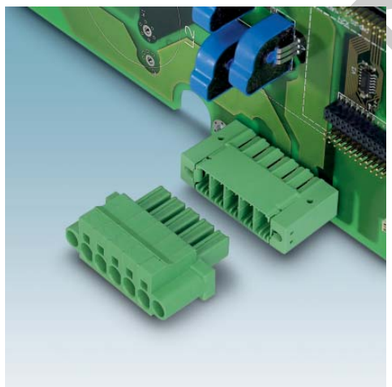
Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
PC 5/ 2-GU-7,62	**1720686**	50
PC 5/ 3-GU-7,62	**1720699**	50
PC 5/ 4-GU-7,62	**1720709**	50
PC 5/ 5-GU-7,62	**1720712**	50
PC 5/ 6-GU-7,62	**1720725**	50
PC 5/ 7-GU-7,62	**1720738**	50
PC 5/ 8-GU-7,62	**1720741**	50
PC 5/ 9-GU-7,62	**1720754**	50
PC 5/10-GU-7,62	**1720767**	50
PC 5/11-GU-7,62	**1720770**	50
PC 5/12-GU-7,62	**1720783**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
PC 5/ 2-GFU-7,62	**1721012**	50
PC 5/ 3-GFU-7,62	**1721025**	50
PC 5/ 4-GFU-7,62	**1721038**	50
PC 5/ 5-GFU-7,62	**1721041**	50
PC 5/ 6-GFU-7,62	**1721054**	50
PC 5/ 7-GFU-7,62	**1721067**	50
PC 5/ 8-GFU-7,62	**1721070**	50
PC 5/ 9-GFU-7,62	**1721083**	50
PC 5/10-GFU-7,62	**1721096**	50
PC 5/11-GFU-7,62	**1721106**	50
PC 5/12-GFU-7,62	**1721119**	50

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Headers with pin contact



- Vertical PC 5 headers for use in combination with PC 5 plugs
- Available with 2 to 12-pos.
- Vibration-resistant connection with a threaded flange (-GF; also for screw connection in the device)
- Compatible with the Click and Lock system
- Asymmetrical layout of solder pins to avoid incorrect plugging-in
- Suitable for 600 V UL when used in combination with PC 5 screw or spring-cage plugs

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

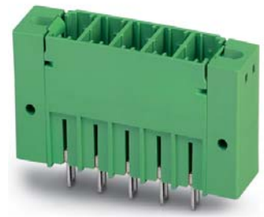
COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products**
or starting on page 486.

Mounting screw for PCV 5/...-GF-7,62: sheet metal screw ISO 1481-ST 2,9 C. Screw connection only permitted prior to soldering.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



Compatible with STCL plugs

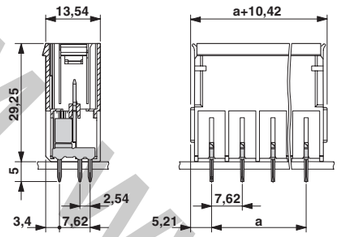


With threaded flange

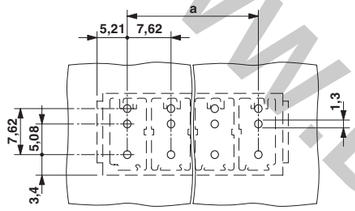
Accessories

For all types	Type	Page
	Keying profile **CP-PC RD** **Order No. 1701967**	38
	Marker cards **SK 7,62/3,8**	799

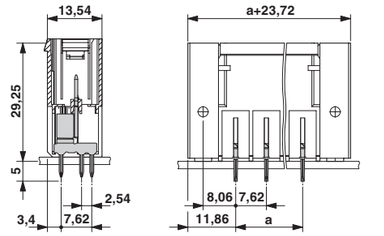
Dimensional drawing



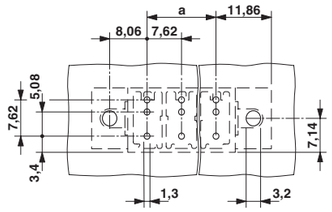
Drilling diagram



Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current	[A]	41¹)		
Rated insulation voltage for pollution degree 2	[V]	630		
Pitch	[mm]	7.62		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	630	630	1000
Rated surge voltage	[kV]	6	6	6
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	150	300
Nominal current	[A]	41	41	10
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.3 / 0,8 x 1,0		

No. of pos.	Dim. a [mm]
2	7.62
3	15.24
4	22.86
5	30.48
6	38.10
7	45.72
8	53.34
9	60.96
10	68.58
11	76.20
12	83.82

Ordering data

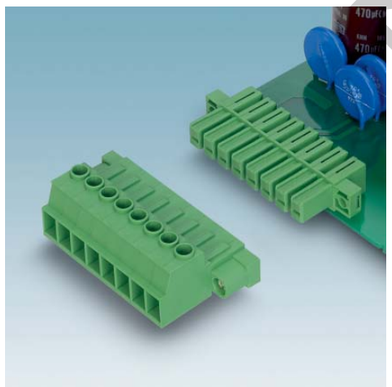
Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
PCV 5/ 2-G-7,62	**1720576**	50
PCV 5/ 3-G-7,62	**1720589**	50
PCV 5/ 4-G-7,62	**1720592**	50
PCV 5/ 5-G-7,62	**1720602**	50
PCV 5/ 6-G-7,62	**1720615**	50
PCV 5/ 7-G-7,62	**1720628**	50
PCV 5/ 8-G-7,62	**1720631**	50
PCV 5/ 9-G-7,62	**1720644**	50
PCV 5/10-G-7,62	**1720657**	50
PCV 5/11-G-7,62	**1720660**	50
PCV 5/12-G-7,62	**1720673**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
PCV 5/ 2-GF-7,62	**1720903**	50
PCV 5/ 3-GF-7,62	**1720916**	50
PCV 5/ 4-GF-7,62	**1720929**	50
PCV 5/ 5-GF-7,62	**1720932**	50
PCV 5/ 6-GF-7,62	**1720945**	50
PCV 5/ 7-GF-7,62	**1720958**	50
PCV 5/ 8-GF-7,62	**1720961**	50
PCV 5/ 9-GF-7,62	**1720974**	50
PCV 5/10-GF-7,62	**1720987**	50
PCV 5/11-GF-7,62	**1720990**	50
PCV 5/12-GF-7,62	**1721009**	50

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Headers with socket contact



- An inverted IPC 5 header to implement a touch-proof PCB output or a PCB-PCB connection (in combination with PC 5 base strips)
- Maximum contact safety thanks to an integrated double steel spring
- GU versions for a solder-in direction rotated by 180°
- Shroud PCB-SHIELD for a professional EMC shield connection
- Suitable for 600 V UL when used in combination with IPC 5 screw and spring-cage plugs

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products**
or starting on page 486.

[1]) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

Accessories

For all types	Type	Page
	Keying profile **CP-PC RD** **Order No. 1701967**	38
	Marker cards **SK 7,62/3,8**	799
Only for IPC 5/...-G-7,62 and IPC 5/...-GU-7,62		
	Shroud **POWER COMBICON PCB-SHIELD** **Order No. 1968387**	



Without threaded flange



With threaded flange

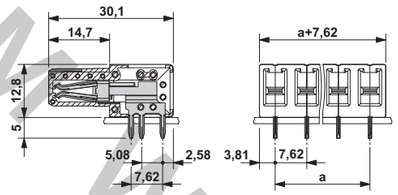


Rotated 180°, without threaded flange

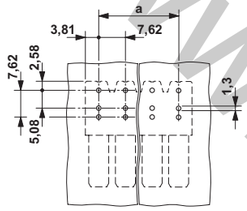


Rotated 180°, with threaded flange

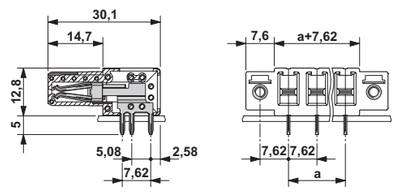
Dimensional drawing



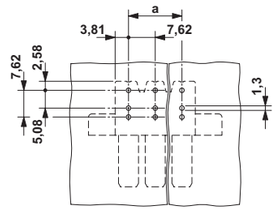
Drilling diagram



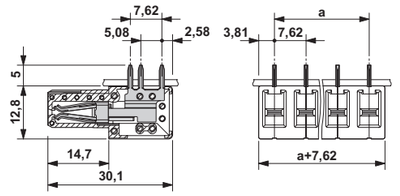
Dimensional drawing



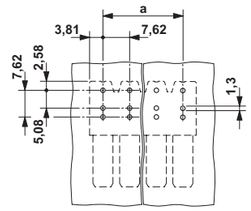
Drilling diagram



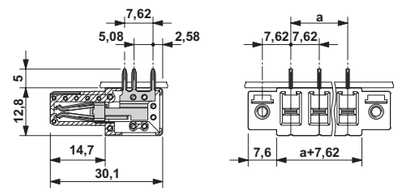
Dimensional drawing



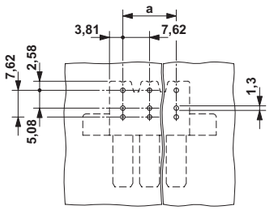
Drilling diagram



Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current	[A]	41[1])		
Rated insulation voltage for pollution degree 2	[V]	630		
Pitch	[mm]	7.62		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	630	630	1000
Rated surge voltage	[kV]	6	6	6
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	300	600
Nominal current	[A]	41	41	5
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.3 / 1,2 x 0,8		

No. of pos.	Dim. a [mm]
2	7.62
3	15.24
4	22.86
5	30.48
6	38.10
7	45.72
8	53.34
9	60.96
10	69.58
11	76.20
12	83.82

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
IPC 5/ 2-G-7,62	**1708381**	50
IPC 5/ 3-G-7,62	**1708394**	50
IPC 5/ 4-G-7,62	**1708404**	50
IPC 5/ 5-G-7,62	**1708417**	50
IPC 5/ 6-G-7,62	**1708420**	50
IPC 5/ 7-G-7,62	**1708433**	50
IPC 5/ 8-G-7,62	**1708446**	50
IPC 5/ 9-G-7,62	**1708459**	50
IPC 5/10-G-7,62	**1708462**	50
IPC 5/11-G-7,62	**1708475**	50
IPC 5/12-G-7,62	**1708488**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
IPC 5/ 2-GF-7,62	**1708491**	50
IPC 5/ 3-GF-7,62	**1708501**	50
IPC 5/ 4-GF-7,62	**1708514**	50
IPC 5/ 5-GF-7,62	**1708527**	50
IPC 5/ 6-GF-7,62	**1708530**	50
IPC 5/ 7-GF-7,62	**1708543**	50
IPC 5/ 8-GF-7,62	**1708556**	50
IPC 5/ 9-GF-7,62	**1708569**	50
IPC 5/10-GF-7,62	**1708572**	50
IPC 5/11-GF-7,62	**1708585**	50
IPC 5/12-GF-7,62	**1708598**	50

Ordering data

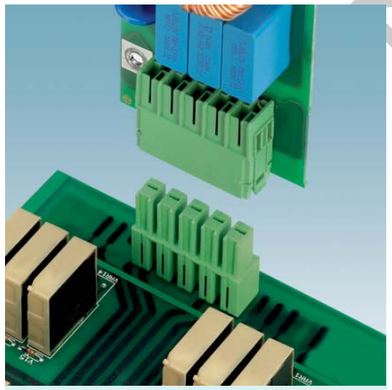
Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
IPC 5/ 2-GU-7,62	**1708608**	50
IPC 5/ 3-GU-7,62	**1708611**	50
IPC 5/ 4-GU-7,62	**1708624**	50
IPC 5/ 5-GU-7,62	**1708637**	50
IPC 5/ 6-GU-7,62	**1708640**	50
IPC 5/ 7-GU-7,62	**1708653**	50
IPC 5/ 8-GU-7,62	**1708666**	50
IPC 5/ 9-GU-7,62	**1708679**	50
IPC 5/10-GU-7,62	**1708682**	50
IPC 5/11-GU-7,62	**1708695**	50
IPC 5/12-GU-7,62	**1708705**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
IPC 5/ 2-GFU-7,62	**1708718**	50
IPC 5/ 3-GFU-7,62	**1708721**	50
IPC 5/ 4-GFU-7,62	**1708734**	50
IPC 5/ 5-GFU-7,62	**1708747**	50
IPC 5/ 6-GFU-7,62	**1708750**	50
IPC 5/ 7-GFU-7,62	**1708763**	50
IPC 5/ 8-GFU-7,62	**1708776**	50
IPC 5/ 9-GFU-7,62	**1708789**	50
IPC 5/10-GFU-7,62	**1708792**	50
IPC 5/11-GFU-7,62	**1708802**	50
IPC 5/12-GFU-7,62	**1708815**	50

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Headers with socket contact



- An inverted IPC 5 header in a vertical design to implement a touch-proof PCB output or a PCB-PCB connection (in combination with PC 5 base strips)
- Maximum contact safety thanks to an integrated double steel spring
- Asymmetrical layout of solder pins to avoid incorrect plugging-in
- Threaded flange -GF
- Suitable for 600 V UL when used in combination with IPC 5 screw and spring-cage plugs

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products**
or starting on page 486.

[1]) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



Without threaded flange

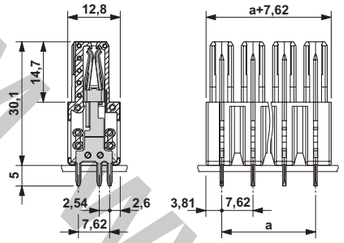


With threaded flange

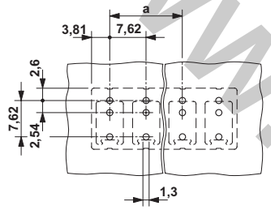
Accessories

For all types	Type	Page
	Keying profile **CP-PC RD Order No. 1701967**	38
	Marker cards **SK 7,62/3,8**	799

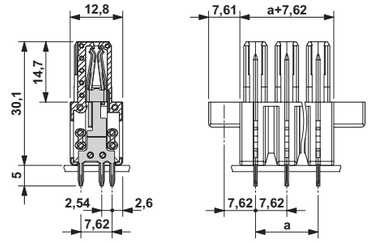
Dimensional drawing



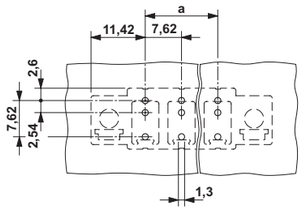
Drilling diagram



Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current	[A]	41[1])		
Rated insulation voltage for pollution degree 2	[V]	630		
Pitch	[mm]	7.62		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	630	630	1000
Rated surge voltage	[kV]	6	6	6
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	300	600
Nominal current	[A]	41	41	5
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.3 / 1,2 x 0,8		

No. of pos.	Dim. a [mm]
2	7.62
3	15.24
4	22.86
5	30.48
6	38.10
7	45.72
8	53.34
9	60.96
10	68.58
11	76.20
12	83.82

Ordering data

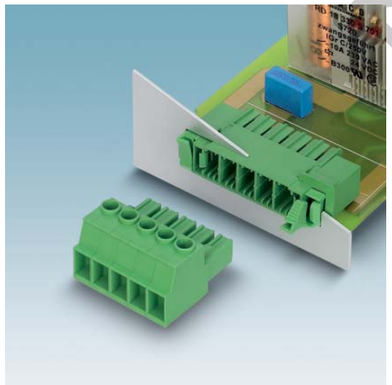
Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
IPCV 5/ 2-G-7,62	**1708828**	50
IPCV 5/ 3-G-7,62	**1708831**	50
IPCV 5/ 4-G-7,62	**1708844**	50
IPCV 5/ 5-G-7,62	**1708857**	50
IPCV 5/ 6-G-7,62	**1708860**	50
IPCV 5/ 7-G-7,62	**1708873**	50
IPCV 5/ 8-G-7,62	**1708886**	50
IPCV 5/ 9-G-7,62	**1708899**	50
IPCV 5/10-G-7,62	**1708909**	50
IPCV 5/11-G-7,62	**1708912**	50
IPCV 5/12-G-7,62	**1708925**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
IPCV 5/ 2-GF-7,62	**1708938**	50
IPCV 5/ 3-GF-7,62	**1708941**	50
IPCV 5/ 4-GF-7,62	**1708954**	50
IPCV 5/ 5-GF-7,62	**1708967**	50
IPCV 5/ 6-GF-7,62	**1708970**	50
IPCV 5/ 7-GF-7,62	**1708983**	50
IPCV 5/ 8-GF-7,62	**1708996**	50
IPCV 5/ 9-GF-7,62	**1709005**	50
IPCV 5/10-GF-7,62	**1709018**	50
IPCV 5/11-GF-7,62	**1709021**	50
IPCV 5/12-GF-7,62	**1709034**	50

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Feed-through header with a male contact



- Feed-through headers for use in combination with all PC 5 plugs
- To solder onto the PCB
- Mounting on the housing wall using the snap-lock mechanism to be operated without tools or the classical screw connection
- Wall thicknesses from 1 mm to 3 mm
- In GF versions, shielding functions can be executed on the housing wall
- If the GU headers are used, the plug is rotated by 180° before fitting
- Suitable for 600 V UL when used in combination with PC 5 screw and spring-cage plugs

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

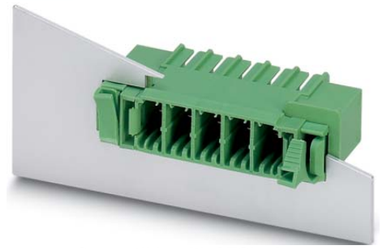
COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products**
or starting on page 486.

The cutout dimensions and mounting options for the feed-through versions can be found on page 595.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

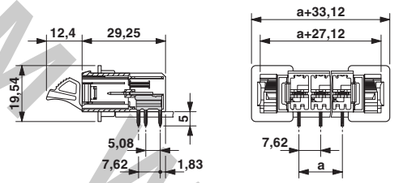
Accessories

For all types	Type	Page
	Keying profile **CP-PC RD** **Order No. 1701967**	38
	Screws for mounting on the housing panel **DFK-PC 16-SS** **Order No. 1705449**	
	Marker cards **SK 7,62/3,8**	799

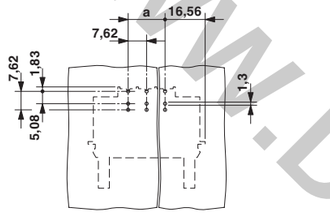


Compatible with STCL plugs

Dimensional drawing



Drilling diagram



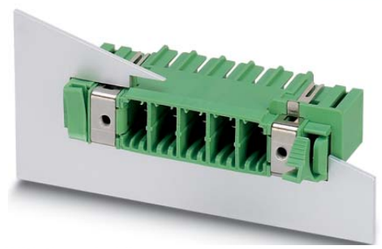
Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current	[A]	41¹)		
Rated insulation voltage for pollution degree 2	[V]	630		
Pitch	[mm]	7.62		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	500	630	800
Rated surge voltage	[kV]	6	6	6
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	150	300
Nominal current	[A]	41	41	10
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.3 / 0,8 x 1,0		

No. of pos.	Dim. a [mm]
2	7.62
3	15.24
4	22.86
5	30.48
6	38.10
7	45.72
8	53.34
9	60.96
10	68.58
11	76.20
12	83.82

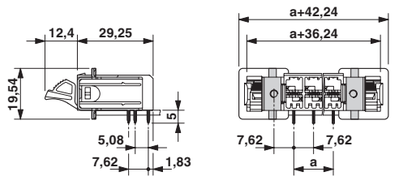
Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
DFK-PC 5/ 2-G-7,62	**1727582**	10
DFK-PC 5/ 3-G-7,62	**1727595**	10
DFK-PC 5/ 4-G-7,62	**1727605**	10
DFK-PC 5/ 5-G-7,62	**1727618**	10
DFK-PC 5/ 6-G-7,62	**1727621**	10
DFK-PC 5/ 7-G-7,62	**1727634**	10
DFK-PC 5/ 8-G-7,62	**1727647**	10
DFK-PC 5/ 9-G-7,62	**1727650**	10
DFK-PC 5/10-G-7,62	**1727663**	10
DFK-PC 5/11-G-7,62	**1727676**	10
DFK-PC 5/12-G-7,62	**1727689**	10

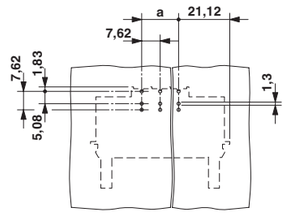


With threaded flange and shield connection on the front of the device

Dimensional drawing

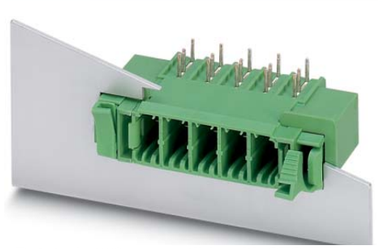


Drilling diagram



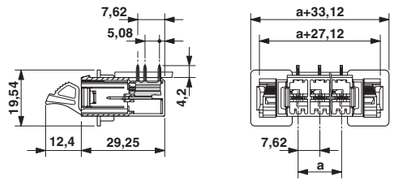
Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
DFK-PC 5/ 2-GF-7,62	**1727692**	10
DFK-PC 5/ 3-GF-7,62	**1727702**	10
DFK-PC 5/ 4-GF-7,62	**1727715**	10
DFK-PC 5/ 5-GF-7,62	**1727728**	10
DFK-PC 5/ 6-GF-7,62	**1727731**	10
DFK-PC 5/ 7-GF-7,62	**1727744**	10
DFK-PC 5/ 8-GF-7,62	**1727757**	10
DFK-PC 5/ 9-GF-7,62	**1727760**	10
DFK-PC 5/10-GF-7,62	**1727773**	10
DFK-PC 5/11-GF-7,62	**1727786**	10
DFK-PC 5/12-GF-7,62	**1727799**	10

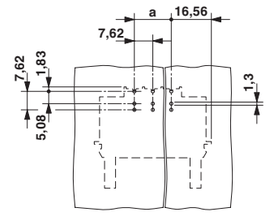


Rotated 180°, compatible with STCL plugs

Dimensional drawing

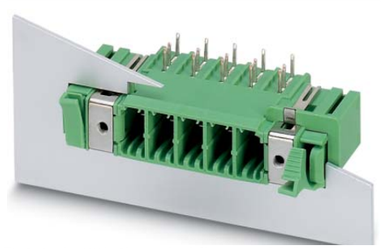


Drilling diagram



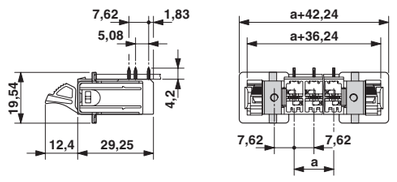
Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
DFK-PC 5/ 2-GU-7,62	**1727809**	10
DFK-PC 5/ 3-GU-7,62	**1727812**	10
DFK-PC 5/ 4-GU-7,62	**1727825**	10
DFK-PC 5/ 5-GU-7,62	**1727838**	10
DFK-PC 5/ 6-GU-7,62	**1727841**	10
DFK-PC 5/ 7-GU-7,62	**1727854**	10
DFK-PC 5/ 8-GU-7,62	**1727867**	10
DFK-PC 5/ 9-GU-7,62	**1727870**	10
DFK-PC 5/10-GU-7,62	**1727883**	10
DFK-PC 5/11-GU-7,62	**1727896**	10
DFK-PC 5/12-GU-7,62	**1727906**	10

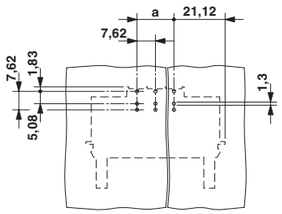


Rotated 180°, threaded flange, shield connection on the front of the device

Dimensional drawing



Drilling diagram

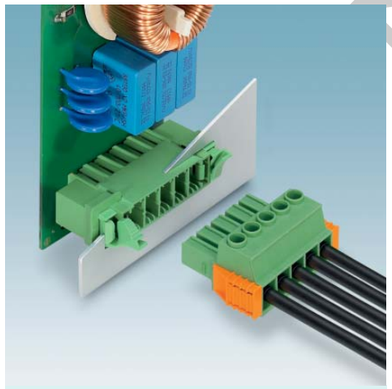


Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
DFK-PC 5/ 2-GFU-7,62	**1727919**	10
DFK-PC 5/ 3-GFU-7,62	**1727922**	10
DFK-PC 5/ 4-GFU-7,62	**1727935**	10
DFK-PC 5/ 5-GFU-7,62	**1727948**	10
DFK-PC 5/ 6-GFU-7,62	**1727951**	10
DFK-PC 5/ 7-GFU-7,62	**1727964**	10
DFK-PC 5/ 8-GFU-7,62	**1727977**	10
DFK-PC 5/ 9-GFU-7,62	**1727980**	10
DFK-PC 5/10-GFU-7,62	**1727993**	10
DFK-PC 5/11-GFU-7,62	**1728002**	10
DFK-PC 5/12-GFU-7,62	**1716056**	10

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Feed-through header with a male contact



- Feed-through headers for use in combination with all PC 5 plugs
- To solder onto the PCB
- In SH versions, shielding functions can be executed on the inside of the device as well.
- Mounting on the housing wall using the snap-lock mechanism to be operated without tools or the classical screw connection
- Wall thicknesses from 1 mm to 3 mm
- Suitable for 600 V UL when used in combination with PC 5 screw or spring-cage plugs

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

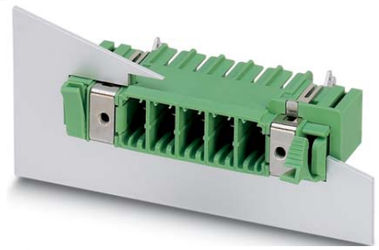
COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products**
or starting on page 486.

The cutout dimensions and mounting options for the feed-through versions can be found on page 595.

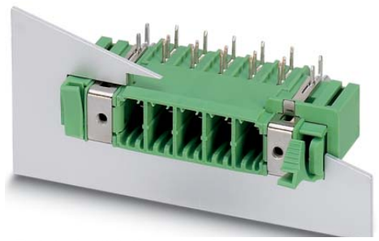
1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

Accessories

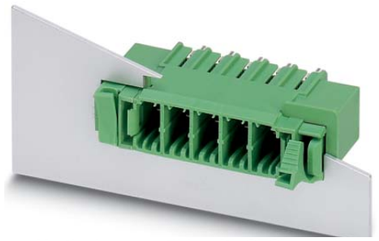
For all types	Type	Page
	Keying profile **CP-PC RD** **Order No.** **1701967**	38
	Screws for mounting on the housing panel **DFK-PC 16-SS** **Order No.** **1705449**	
	Marker cards **SK 7,62/3,8**	799



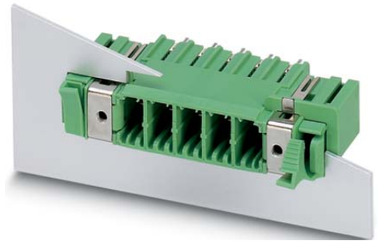
With threaded flange and shield feed-through on the inside of the device



Rotated 180°, threaded flange, shield feed-through on the inside of the device

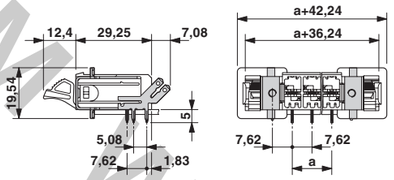


Vertical, compatible with STCL plugs

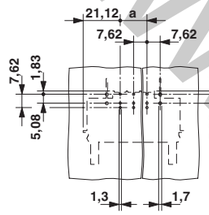


Vertical, threaded flange, shield connection on the front of the device

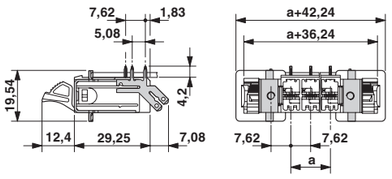
Dimensional drawing



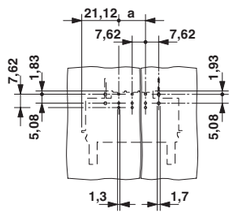
Drilling diagram



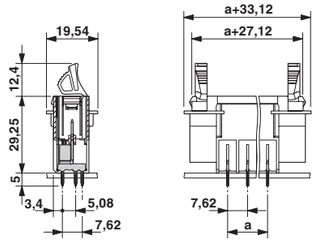
Dimensional drawing



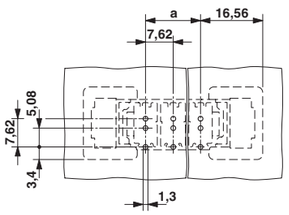
Drilling diagram



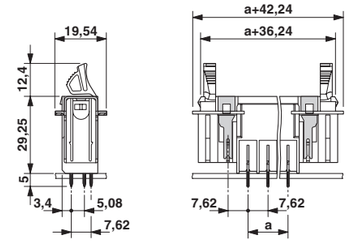
Dimensional drawing



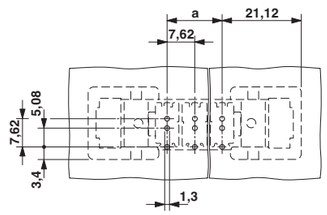
Drilling diagram



Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current	[A]	41¹)		
Rated insulation voltage for pollution degree 2	[V]	630		
Pitch	[mm]	7.62		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	500	630	800
Rated surge voltage	[kV]	6	6	6
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	150	300
Nominal current	[A]	41	41	10
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.3 / 0,8 x 1,0		

No. of pos.	Dim. a [mm]
2	7.62
3	15.24
4	22.86
5	30.48
6	38.10
7	45.72
8	53.34
9	60.96
10	68.58
11	76.20
12	83.82

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
DFK-PC 5/ 2-GF-SH-7,62	**1716069**	10
DFK-PC 5/ 3-GF-SH-7,62	**1716072**	10
DFK-PC 5/ 4-GF-SH-7,62	**1716085**	10
DFK-PC 5/ 5-GF-SH-7,62	**1716098**	10
DFK-PC 5/ 6-GF-SH-7,62	**1716108**	10
DFK-PC 5/ 7-GF-SH-7,62	**1716111**	10
DFK-PC 5/ 8-GF-SH-7,62	**1716124**	10
DFK-PC 5/ 9-GF-SH-7,62	**1716137**	10
DFK-PC 5/10-GF-SH-7,62	**1716140**	10
DFK-PC 5/11-GF-SH-7,62	**1716153**	10
DFK-PC 5/12-GF-SH-7,62	**1716166**	10

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
DFK-PC 5/ 2-GFU-SH-7,62	**1716179**	10
DFK-PC 5/ 3-GFU-SH-7,62	**1716182**	10
DFK-PC 5/ 4-GFU-SH-7,62	**1716195**	10
DFK-PC 5/ 5-GFU-SH-7,62	**1716205**	10
DFK-PC 5/ 6-GFU-SH-7,62	**1716218**	10
DFK-PC 5/ 7-GFU-SH-7,62	**1716221**	10
DFK-PC 5/ 8-GFU-SH-7,62	**1716234**	10
DFK-PC 5/ 9-GFU-SH-7,62	**1716247**	10
DFK-PC 5/10-GFU-SH-7,62	**1716250**	10
DFK-PC 5/11-GFU-SH-7,62	**1716263**	10
DFK-PC 5/12-GFU-SH-7,62	**1716276**	10

Ordering data

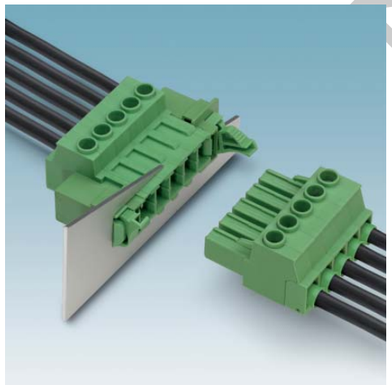
Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
DFK-PCV 5/ 2-G-7,62	**1716289**	10
DFK-PCV 5/ 3-G-7,62	**1716292**	10
DFK-PCV 5/ 4-G-7,62	**1716302**	10
DFK-PCV 5/ 5-G-7,62	**1716315**	10
DFK-PCV 5/ 6-G-7,62	**1716328**	10
DFK-PCV 5/ 7-G-7,62	**1716331**	10
DFK-PCV 5/ 8-G-7,62	**1716344**	10
DFK-PCV 5/ 9-G-7,62	**1716357**	10
DFK-PCV 5/10-G-7,62	**1716360**	10
DFK-PCV 5/11-G-7,62	**1716373**	10
DFK-PCV 5/12-G-7,62	**1716386**	10

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
DFK-PCV 5/ 2-GF-7,62	**1716399**	10
DFK-PCV 5/ 3-GF-7,62	**1716409**	10
DFK-PCV 5/ 4-GF-7,62	**1716412**	10
DFK-PCV 5/ 5-GF-7,62	**1716425**	10
DFK-PCV 5/ 6-GF-7,62	**1716438**	10
DFK-PCV 5/ 7-GF-7,62	**1716441**	10
DFK-PCV 5/ 8-GF-7,62	**1716454**	10
DFK-PCV 5/ 9-GF-7,62	**1716467**	10
DFK-PCV 5/10-GF-7,62	**1716470**	10
DFK-PCV 5/11-GF-7,62	**1716483**	10
DFK-PCV 5/12-GF-7,62	**1716496**	10

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Feed-through header with a male contact



- Feed-through headers for use in combination with PC 5 plugs
- Screw connection for direct wiring on the inside of the device
- Mounting on the housing wall using the snap-lock mechanism to be operated without tools or the classical screw connection
- Wall thicknesses from 1 mm to 3 mm
- In SH versions, shielding functions can be executed on the inside of the device as well.

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

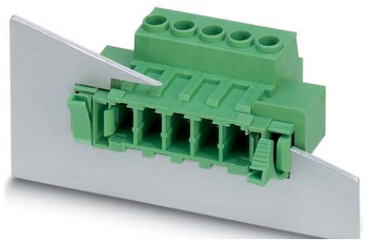
COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products**
or starting on page 486.

The cutout dimensions and mounting options for the feed-through versions can be found on page 595.

[1]) Derating curves on request.

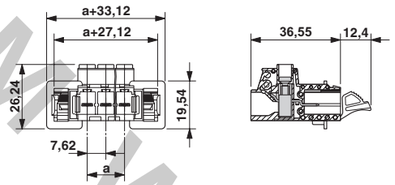
Accessories

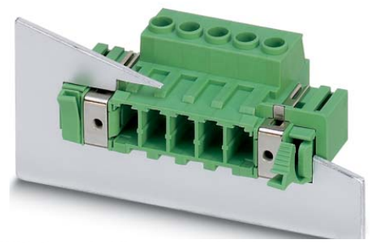
For all types	Type	Page
	Keying profile **CP-PC RD** **Order No. 1701967**	38
	Screws for mounting on the housing panel **DFK-PC 16-SS** **Order No. 1705449**	
	Marker cards **SK 7,62/3,8**	799
	Screwdriver **SZK PZ 1** **Order No. 1206450**	



Compatible with STCL plugs, 600 V UL approval

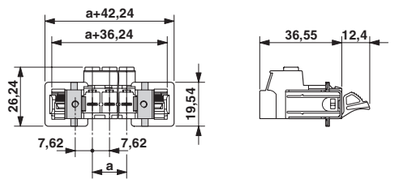
Dimensional drawing

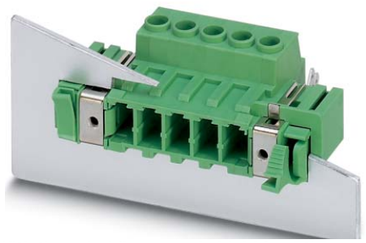




With threaded flange and shield connection on the front of the device, 600 V UL approval

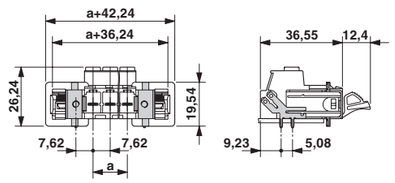
Dimensional drawing





With threaded flange and shield feed-through on the inside of the device, 600 V UL approval

Dimensional drawing



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	41[1]) / 10		
Rated insulation voltage for pollution degree 2	[V]	1000		
Pitch	[mm]	7.62		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 10 / 0.2 - 6 / 24 - 10		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 6		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 4		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	0.2 - 2.5 / 0.2 - 4		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 1.5		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.25 - 2.5		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	1000	1000	1000
Rated surge voltage	[kV]	8	8	6
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	600	600	-
Nominal current	[A]	41	41	-
Connection capacity AWG	AWG	24 - 8	24 - 8	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Stripping length	[mm]	10		
Screw thread		M3		
Tightening torque	[Nm]	0.7 - 0.8		
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		

No. of pos.	Dim. a [mm]
2	7.62
3	15.24
4	22.86
5	30.48
6	38.10
7	45.72
8	53.34
9	60.96
10	68.58
11	76.20
12	83.82

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
DFK-PC 5/ 2-ST-7,62	**1716506**	10
DFK-PC 5/ 3-ST-7,62	**1716519**	10
DFK-PC 5/ 4-ST-7,62	**1716522**	10
DFK-PC 5/ 5-ST-7,62	**1716535**	10
DFK-PC 5/ 6-ST-7,62	**1716548**	10
DFK-PC 5/ 7-ST-7,62	**1716551**	10
DFK-PC 5/ 8-ST-7,62	**1716564**	10
DFK-PC 5/ 9-ST-7,62	**1716577**	10
DFK-PC 5/10-ST-7,62	**1716580**	10
DFK-PC 5/11-ST-7,62	**1716593**	10
DFK-PC 5/12-ST-7,62	**1716603**	10

Ordering data

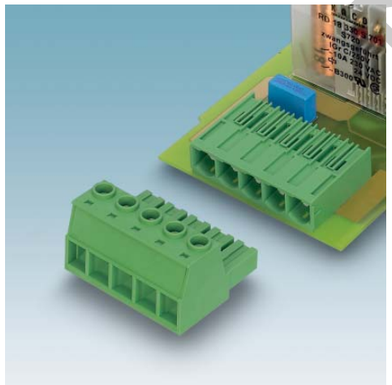
Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
DFK-PC 5/ 2-STF-7,62	**1716616**	10
DFK-PC 5/ 3-STF-7,62	**1716629**	10
DFK-PC 5/ 4-STF-7,62	**1716632**	10
DFK-PC 5/ 5-STF-7,62	**1716645**	10
DFK-PC 5/ 6-STF-7,62	**1716658**	10
DFK-PC 5/ 7-STF-7,62	**1716661**	10
DFK-PC 5/ 8-STF-7,62	**1716674**	10
DFK-PC 5/ 9-STF-7,62	**1716687**	10
DFK-PC 5/10-STF-7,62	**1716690**	10
DFK-PC 5/11-STF-7,62	**1716700**	10
DFK-PC 5/12-STF-7,62	**1716713**	10

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 7.62 mm, color: Green		
DFK-PC 5/ 2-STF-SH-7,62	**1716726**	10
DFK-PC 5/ 3-STF-SH-7,62	**1716739**	10
DFK-PC 5/ 4-STF-SH-7,62	**1716742**	10
DFK-PC 5/ 5-STF-SH-7,62	**1716755**	10
DFK-PC 5/ 6-STF-SH-7,62	**1716768**	10
DFK-PC 5/ 7-STF-SH-7,62	**1716771**	10
DFK-PC 5/ 8-STF-SH-7,62	**1716784**	10
DFK-PC 5/ 9-STF-SH-7,62	**1716797**	10
DFK-PC 5/10-STF-SH-7,62	**1716807**	10
DFK-PC 5/11-STF-SH-7,62	**1716810**	10
DFK-PC 5/12-STF-SH-7,62	**1716823**	10

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Connector with a screw connection



- High-capacity plugs with a current carrying capacity of 41 A and a connection capacity of 6 mm², stranded/10 mm², solid
- Unrestricted 600-V-UL approval
- Contact safety thanks to integrated double steel spring and silver-plated surfaces
- Screw flange (-F) and shield (-SH)
- Can be plugged onto PC 6-16 headers
- CP-PC RD keying profile

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products**
or starting on page 488.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



Without screw flange, 600 V UL approval



With screw flange, 600 V UL approval



With screw flange and shield, 600 V UL approval

Accessories

For all types	Type	Page
	Keying profile **CP-PC RD** **Order No.** **1701967**	38
	Marker strips **SK 5,0 WH:REEL** **Order No.** **0805221**	801
	Screwdriver **SZS 1,0 x 4,0** **Order No.** **1205066**	

Dimensional drawing

Note derating curves

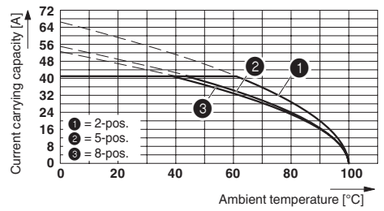
Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 6 mm²
Reduction factor = 0.8
Number of positions = see diagram

Dimensional drawing



Representative derating curve

Type: PC 6/..-ST-10,16 with PC 6-16/..-G1-10,16



Dimensional drawing

Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	41¹) / 10		
Rated insulation voltage for pollution degree 2	[V]	1000		
Pitch	[mm]	10.16		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	0.75 - 10 / 0.75 - 6 / 18 - 8		
Stranded with ferrules without plastic sleeve	[mm²]	0.5 - 6		
Stranded with ferrules with plastic sleeve	[mm²]	0.5 - 6		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	0.75 - 4 / 0.75 - 6		
Stranded with ferrules without plastic sleeve	[mm²]	0.5 - 2.5		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 4		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	1000	1000	1000
Rated surge voltage	[kV]	8	8	6
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	600	600	-
Nominal current	[A]	50	50	-
Connection capacity AWG	AWG	20 - 8	20 - 8	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Stripping length	[mm]	12		
Screw thread		M4		
Tightening torque	[Nm]	1.2 - 1.5		
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		

No. of pos.	Dim. a [mm]
2	10.16
3	20.32
4	30.48
5	40.64
6	50.80
7	60.96
8	71.12

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 10.16 mm, color: Green		
PC 6/ 2-ST-10,16	**1913507**	50
PC 6/ 3-ST-10,16	**1913510**	50
PC 6/ 4-ST-10,16	**1913523**	50
PC 6/ 5-ST-10,16	**1913536**	50
PC 6/ 6-ST-10,16	**1913549**	50
PC 6/ 7-ST-10,16	**1913552**	50
PC 6/ 8-ST-10,16	**1913565**	50

Ordering data

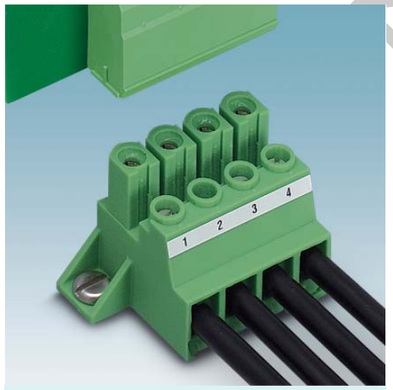
Type	Order No.	Pcs. / Pkt.
Pitch 10.16 mm, color: Green		
PC 6/ 2-STF-10,16	**1913578**	50
PC 6/ 3-STF-10,16	**1913581**	50
PC 6/ 4-STF-10,16	**1913594**	50
PC 6/ 5-STF-10,16	**1913604**	50
PC 6/ 6-STF-10,16	**1913617**	50
PC 6/ 7-STF-10,16	**1913620**	50
PC 6/ 8-STF-10,16	**1913633**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 10.16 mm, color: Green		
PC 6/ 3-STF-SH-10,16	**1973042**	50
PC 6/ 4-STF-SH-10,16	**1966431**	50

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Plugs for direct mounting with socket contact



- Plug-in block for direct mounting with a current carrying capacity of 41 A and a connection capacity of 6 mm², stranded / 10 mm², solid
- Unrestricted 600-V-UL approval
- Easy-maintenance PCB connection (PC 6-16 G1) or inverted IPC 16 plugs
- Laterally mounted flange for screw connection in the housing / on the mounting plate

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products**
or starting on page 488.

[1]) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

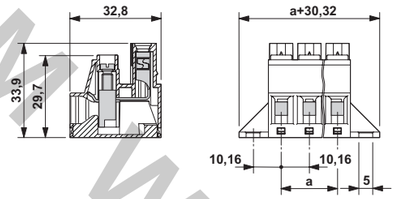


Vertical plug-in direction, can be screwed on, 600 V UL approval

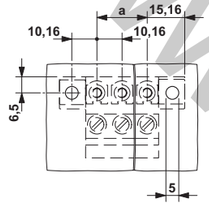
Accessories

For all types	Type	Page
	Keying profile **CP-PC RD** **Order No. 1701967**	38
	Marker strips **SK 5,0 WH:REEL** **Order No. 0805221**	801
	Screwdriver **SZS 1,0 x 4,0** **Order No. 1205066**	

Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	41[1]) / 10		
Rated insulation voltage for pollution degree 2	[V]	1000		
Pitch	[mm]	10.16		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	0.5 - 10 / 0.5 - 6 / 20 - 7		
Stranded with ferrules without plastic sleeve	[mm²]	0.5 - 6		
Stranded with ferrules with plastic sleeve	[mm²]	0.5 - 6		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	0.5 - 6 / 0.5 - 6		
Stranded with ferrules without plastic sleeve	[mm²]	0.5 - 2.5		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 4		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	1000	1000	1000
Rated surge voltage	[kV]	8	8	8
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	600	600	-
Nominal current	[A]	50	50	-
Connection capacity AWG	AWG	20 - 8	20 - 8	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Stripping length	[mm]	12		
Screw thread		M4		
Tightening torque	[Nm]	1.2 - 1.5		
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		

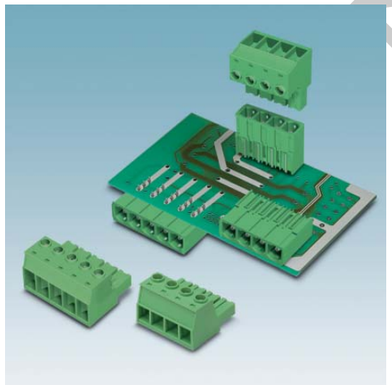
No. of pos.	Dim. a [mm]
2	10.16
3	20.32
4	30.48
5	40.64
6	50.80
7	60.96
8	71.12
9	81.28

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 10.16 mm, color: Green		
PCU 6/ 2-STD-10,16	**1922637**	50
PCU 6/ 3-STD-10,16	**1922640**	50
PCU 6/ 4-STD-10,16	**1922653**	50
PCU 6/ 5-STD-10,16	**1922666**	50
PCU 6/ 6-STD-10,16	**1922679**	50
PCU 6/ 7-STD-10,16	**1922682**	50
PCU 6/ 8-STD-10,16	**1922695**	50
PCU 6/ 9-STD-10,16	**1922705**	50

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Plugs with screw and spring connection



- High-capacity plugs with a current carrying capacity of 76 A and a connection capacity of 16 mm², stranded
- Unrestricted 600-V-UL approval
- Maximum contact safety thanks to an integrated double steel spring
- Further features: Screw flange (-STF) and shield (-SH)
- Can be plugged into PC 6-16 headers and IPC 16 plugs
- CP-PC RD keying profile

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products**
or starting on page 488.

When using ferrules for 16 mm² conductors, crimp with CRIMPFOX 16 S (see accessories).

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



Without screw flange, 600 V UL approval



With screw flange, 600 V UL approval

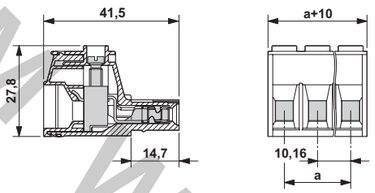


With screw flange and shield, 600 V UL approval

Accessories

For all types	Type	Page
	Keying profile **CP-PC RD Order No. 1701967**	38
	Screwdriver **SZS 1,0 x 4,0 Order No. 1205066**	
	Marker strips **SK 5,0 WH:REEL Order No. 0805221**	801
	Crimping pliers for 0.25 to 6 mm² **CRIMPFOX 6 Order No. 1212034**	
	Crimping pliers for 10 to 16 mm² **CRIMPFOX 16 S Order No. 1207983**	

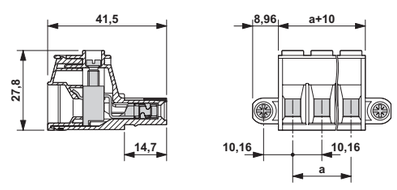
Dimensional drawing



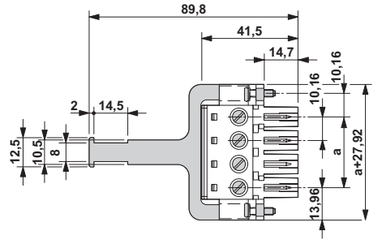
Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 16 mm²
Reduction factor = 0.8
Number of positions = see diagram

Dimensional drawing

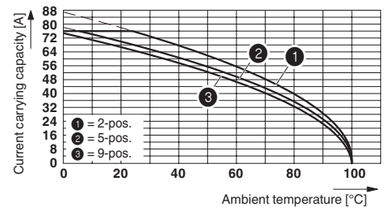


Dimensional drawing

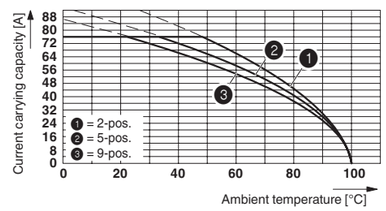


Representative derating curves of the above-mentioned plugs

Type: PC 16/..-ST-10,16 with PC 6-16/..-G1-10,16



Type: PC 16/..-ST-10,16 with IPC 16/..-ST-10,16



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	76¹) / 16		
Rated insulation voltage for pollution degree 2	[V]	1000		
Pitch	[mm]	10.16		
Connection capacity				
Solid & multi-strand / stranded	[mm²] / [mm²] / AWG	0.75 - 16 / 0.75 - 16 / 18 - 6		
Stranded with ferrules without plastic sleeve	[mm²]	0.5 - 16		
Stranded with ferrules with plastic sleeve	[mm²]	0.5 - 16		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid & multi-strand / stranded	[mm²]	0.75 - 6 / 0.75 - 6		
Stranded with ferrules without plastic sleeve	[mm²]	0.5 - 4		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 6		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	1000	1000	1000
Rated surge voltage	[kV]	8	8	6
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	600	600	-
Nominal current	[A]	55	55	-
Connection capacity AWG	AWG	20 - 6	20 - 6	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Stripping length	[mm]	12		
Screw thread		M4		
Tightening torque	[Nm]	1.7 - 1.8		
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		

Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		Pitch 10.16 mm, color: Green		
2	10.16	**PC 16/ 2-ST-10,16**	**1967375**	50
3	20.32	**PC 16/ 3-ST-10,16**	**1967388**	50
4	30.48	**PC 16/ 4-ST-10,16**	**1967391**	50
5	40.64	**PC 16/ 5-ST-10,16**	**1967401**	50
6	50.80	**PC 16/ 6-ST-10,16**	**1967414**	50
7	60.96	**PC 16/ 7-ST-10,16**	**1967427**	50
8	71.12	**PC 16/ 8-ST-10,16**	**1967430**	50
9	81.28	**PC 16/ 9-ST-10,16**	**1967443**	50

Ordering data

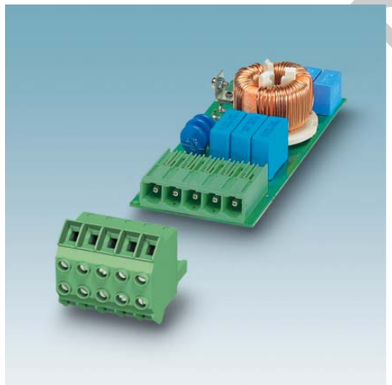
Type	Order No.	Pcs. / Pkt.
Pitch 10.16 mm, color: Green		
PC 16/ 2-STF-10,16	**1967456**	50
PC 16/ 3-STF-10,16	**1967469**	50
PC 16/ 4-STF-10,16	**1967472**	50
PC 16/ 5-STF-10,16	**1967485**	50
PC 16/ 6-STF-10,16	**1967498**	50
PC 16/ 7-STF-10,16	**1967508**	50
PC 16/ 8-STF-10,16	**1967511**	50
PC 16/ 9-STF-10,16	**1967524**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 10.16 mm, color: Green		
PC 16/ 3-STF-SH-10,16	**1737530**	50
PC 16/ 4-STF-SH-10,16	**1970359**	50

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Plugs with screw and spring connection



- Plug with double connection and a current carrying capacity of 76 A
- Simple potential distribution through two terminal points per contact
- Unrestricted 600-V-UL approval
- Maximum contact safety thanks to an integrated double steel spring
- CP-PC RD keying profile

Notes:
In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
COMBICON select You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 488.
When using ferrules for 16 mm² conductors, crimp with CRIMPFOX 16 S (see accessories).
1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



Without screw flange, 600 V UL approval

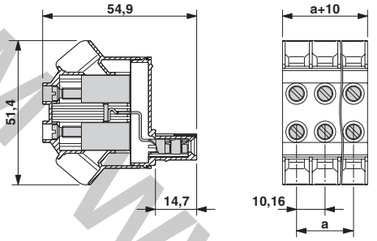


With screw flange, 600 V UL approval

Accessories

For all types	Type	Page
	Keying profile **CP-PC RD** **Order No.** **1701967**	38
	Screwdriver **SZS 1,0 x 4,0** **Order No.** **1205066**	
	Marker strips **SK 5,0 WH:REEL** **Order No.** **0805221**	801
	Crimping pliers for 0.25 to 6 mm² **CRIMPFOX 6** **Order No.** **1212034**	
	Crimping pliers for 10 to 16 mm² **CRIMPFOX 16 S** **Order No.** **1207983**	

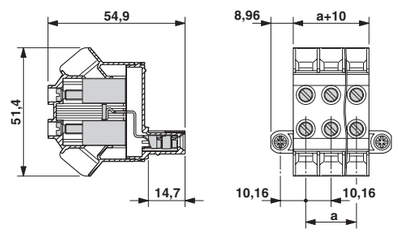
Dimensional drawing



Note derating curves

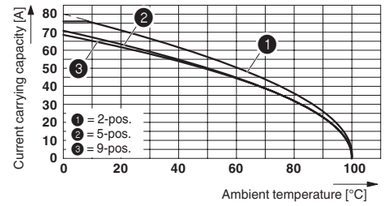
Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 16 mm²
Reduction factor = 0.8
Number of positions = see diagram

Dimensional drawing



Representative derating curve

Type: TPC 16/....-ST-10,16 with PC 6-16/...-G1-10,16



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	76¹) / 16		
Rated insulation voltage for pollution degree 2	[V]	1000		
Pitch	[mm]	10.16		
Connection capacity				
Solid & multi-strand / stranded	[mm²] / [mm²] / AWG	0.75 - 16 / 0.75 - 16 / 18 - 6		
Stranded with ferrules without plastic sleeve	[mm²]	0.5 - 16		
Stranded with ferrules with plastic sleeve	[mm²]	0.5 - 16		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid & multi-strand / stranded	[mm²]	0.75 - 6 / 0.75 - 6		
Stranded with ferrules without plastic sleeve	[mm²]	0.5 - 4		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 6		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	1000	1000	1000
Rated surge voltage	[kV]	8	8	6
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	600	600	-
Nominal current	[A]	60	60	-
Connection capacity AWG	AWG	20 - 4	20 - 4	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Stripping length	[mm]	18		
Screw thread		M4		
Tightening torque	[Nm]	1.7 - 1.8		
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		

Ordering data

No. of pos.	Dim. a [mm]
2	10.16
3	20.32
4	30.48
5	40.64
6	50.80
7	60.96
8	71.12
9	81.28

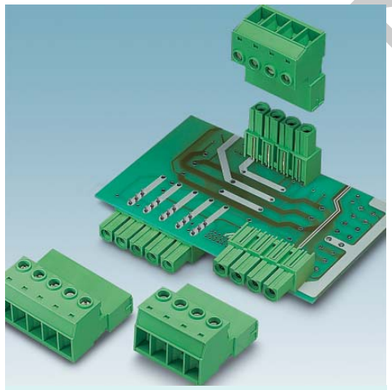
Type	Order No.	Pcs. / Pkt.
Pitch 10.16 mm, color: Green		
TPC 16/ 2-ST-10,16	**1715170**	20
TPC 16/ 3-ST-10,16	**1715183**	20
TPC 16/ 4-ST-10,16	**1715196**	20
TPC 16/ 5-ST-10,16	**1715206**	20
TPC 16/ 6-ST-10,16	**1715219**	20
TPC 16/ 7-ST-10,16	**1715222**	20
TPC 16/ 8-ST-10,16	**1715235**	20
TPC 16/ 9-ST-10,16	**1715248**	20

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 10.16 mm, color: Green		
TPC 16/ 2-STF-10,16	**1715251**	20
TPC 16/ 3-STF-10,16	**1715264**	20
TPC 16/ 4-STF-10,16	**1715277**	20
TPC 16/ 5-STF-10,16	**1715280**	20
TPC 16/ 6-STF-10,16	**1715293**	20
TPC 16/ 7-STF-10,16	**1715303**	20
TPC 16/ 8-STF-10,16	**1715316**	20
TPC 16/ 9-STF-10,16	**1715329**	50

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Plugs with screw and spring connection



- Inverted IPC 16 plugs with pin contacts for touch-proof device outputs (with IPC 16 G) or free-hanging cable/cable connections
- Unrestricted 600-V-UL approval
- Can be plugged into PC 16 plugs or inverted IPC 16 headers
- The SH versions provide a professional EMC shield and an optional strain relief

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products**
or starting on page 488.

When using ferrules for 16 mm² conductors, crimp with CRIMPFOX 16 S (see accessories).

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



Without screw flange, 600 V UL approval



With screw flange, 600 V UL approval

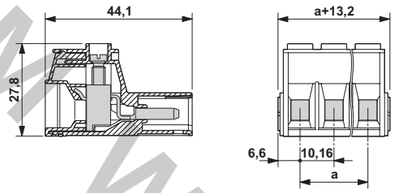


With screw flange and shield, 600 V UL approval

Accessories

For all types	Type	Page
	Keying profile **CP-PC RD** **Order No. 1701967**	38
	Screwdriver **SZS 1,0 x 4,0** **Order No. 1205066**	
	Marker strips **SK 5,0 WH:REEL** **Order No. 0805221**	801
	Crimping pliers for 0.25 to 6 mm² **CRIMPFOX 6** **Order No. 1212034**	
	Crimping pliers for 10 to 16 mm² **CRIMPFOX 16 S** **Order No. 1207983**	

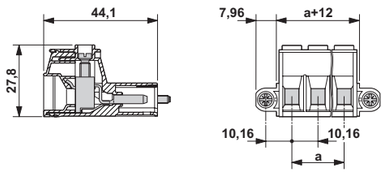
Dimensional drawing



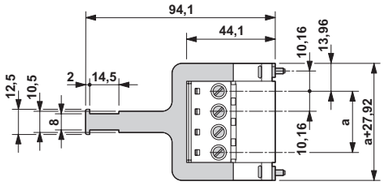
Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 16 mm²
Reduction factor = 0.8
Number of positions = see diagram

Dimensional drawing

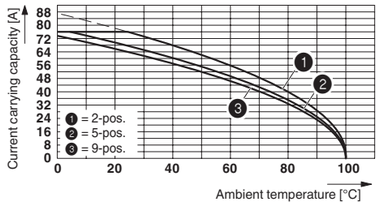


Dimensional drawing

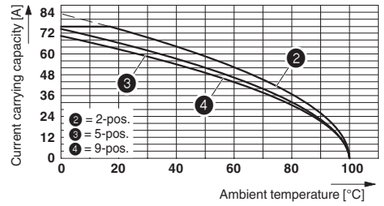


Representative derating curves of the above-mentioned plugs

Type: IPC 16/..-ST-10,16 with DFK-IPC 16/..-G-10,16



Type: IPC 16/...-ST-10,16 with IPC 16/...-G-10,16



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	76¹) / 16		
Rated insulation voltage for pollution degree 2	[V]	1000		
Pitch	[mm]	10.16		
Connection capacity				
Solid & multi-strand / stranded	[mm²] / [mm²] / AWG	0.75 - 16 / 0.75 - 16 / 18 - 6		
Stranded with ferrules without plastic sleeve	[mm²]	0.5 - 16		
Stranded with ferrules with plastic sleeve	[mm²]	0.5 - 16		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid & multi-strand / stranded	[mm²]	0.75 - 6 / 0.75 - 6		
Stranded with ferrules without plastic sleeve	[mm²]	0.5 - 4		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 6		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	1000	1000	1000
Rated surge voltage	[kV]	8	8	6
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	600	600	-
Nominal current	[A]	55	55	-
Connection capacity AWG	AWG	20 - 6	20 - 6	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Stripping length	[mm]	12		
Screw thread		M4		
Tightening torque	[Nm]	1.7 - 1.8		
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		

Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		Pitch 10.16 mm, color: Green		
2	10.16	**IPC 16/ 2-ST-10,16**	**1969373**	50
3	20.32	**IPC 16/ 3-ST-10,16**	**1969386**	50
4	30.48	**IPC 16/ 4-ST-10,16**	**1969399**	50
5	40.64	**IPC 16/ 5-ST-10,16**	**1969409**	50
6	50.80	**IPC 16/ 6-ST-10,16**	**1969412**	50
7	60.96	**IPC 16/ 7-ST-10,16**	**1969425**	50
8	71.12	**IPC 16/ 8-ST-10,16**	**1969438**	50
9	81.28	**IPC 16/ 9-ST-10,16**	**1969441**	50

Ordering data

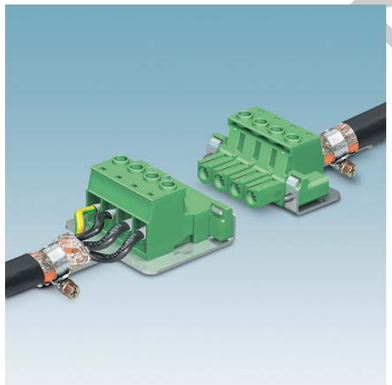
Type	Order No.	Pcs. / Pkt.
Pitch 10.16 mm, color: Green		
IPC 16/ 2-STF-10,16	**1969454**	50
IPC 16/ 3-STF-10,16	**1969467**	50
IPC 16/ 4-STF-10,16	**1969470**	50
IPC 16/ 5-STF-10,16	**1969483**	50
IPC 16/ 6-STF-10,16	**1969496**	50
IPC 16/ 7-STF-10,16	**1969506**	50
IPC 16/ 8-STF-10,16	**1969519**	50
IPC 16/ 9-STF-10,16	**1969522**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 10.16 mm, color: Green		
IPC 16/ 3-STF-SH-10,16	**1737323**	50
IPC 16/ 4-STF-SH-10,16	**1970346**	50
IPC 16/ 7-STF-SH-10,16	**1737336**	50

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Plugs with screw and spring connection



- Inverted IPC 16 plugs with pin contacts for free-hanging cable/cable connections
- Increased protection against vibration thanks to screw-on STGF plugs with a threaded flange (can be plugged onto PC 16 plugs)
- Unrestricted 600-V-UL approval
- The SH versions provide a professional EMC shield and an optional strain relief

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products**
or starting on page 488.

When using ferrules for 16 mm² conductors, crimp with CRIMPFOX 16 S (see accessories).

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



With threaded flange, 600 V UL approval

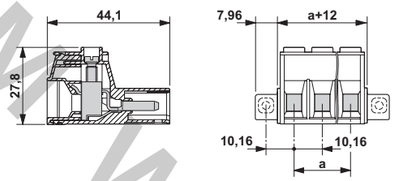


With threaded flange and shield, 600 V UL approval

Accessories

For all types	Type	Page
	Keying profile **CP-PC RD** **Order No. 1701967**	38
	Screwdriver **SZS 1,0 x 4,0** **Order No. 1205066**	
	Marker strips **SK 5,0 WH:REEL** **Order No. 0805221**	801
	Crimping pliers for 0.25 to 6 mm² **CRIMPFOX 6** **Order No. 1212034**	
	Crimping pliers for 10 to 16 mm² **CRIMPFOX 16 S** **Order No. 1207983**	

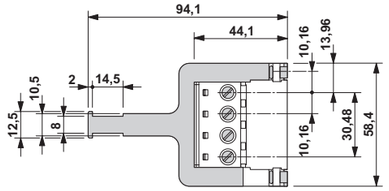
Dimensional drawing



Note derating curves

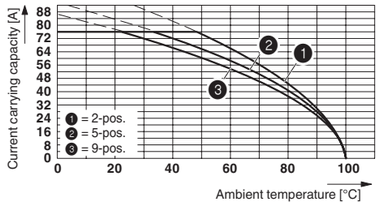
Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 16 mm²
Reduction factor = 0.8
Number of positions = see diagram

Dimensional drawing



Representative derating curve

Type: PC 16/..-ST-10,16 with IPC 16/..-ST-10,16



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	76¹) / 16		
Rated insulation voltage for pollution degree 2	[V]	1000		
Pitch	[mm]	10.16		
Connection capacity				
Solid & multi-strand / stranded	[mm²] / [mm²] / AWG	0.75 - 16 / 0.75 - 16 / 18 - 6		
Stranded with ferrules without plastic sleeve	[mm²]	0.5 - 16		
Stranded with ferrules with plastic sleeve	[mm²]	0.5 - 16		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid & multi-strand / stranded	[mm²]	0.75 - 6 / 0.75 - 6		
Stranded with ferrules without plastic sleeve	[mm²]	0.5 - 4		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 6		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	1000	1000	1000
Rated surge voltage	[kV]	8	8	6
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	600	600	-
Nominal current	[A]	55	55	-
Connection capacity AWG	AWG	20 - 6	20 - 6	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Stripping length	[mm]	12		
Screw thread		M4		
Tightening torque	[Nm]	1.7 - 1.8		
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		

Ordering data

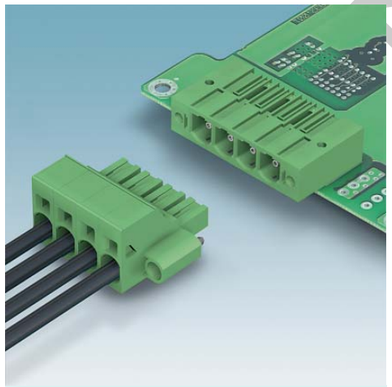
No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		Pitch 10.16 mm, color: Green		
2	10.16	**IPC 16/ 2-STGF-10,16**	**1975817**	50
3	20.32	**IPC 16/ 3-STGF-10,16**	**1975820**	50
4	30.48	**IPC 16/ 4-STGF-10,16**	**1975833**	50
5	40.64	**IPC 16/ 5-STGF-10,16**	**1975846**	50
6	50.80	**IPC 16/ 6-STGF-10,16**	**1975859**	50
7	60.96	**IPC 16/ 7-STGF-10,16**	**1975862**	50
8	71.12	**IPC 16/ 8-STGF-10,16**	**1975875**	50
9	81.28	**IPC 16/ 9-STGF-10,16**	**1975888**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 10.16 mm, color: Green		
IPC 16/ 4-STGF-SH-10,16	**1975891**	50

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Plugs with screw and spring connection



- Push-in spring connection plug with a current carrying capacity of 76 A
- Fast connection method thanks to principle of direct plug-in without tools
- Unrestricted 600-V-UL approval
- Maximum contact safety thanks to an integrated double steel spring
- The SH versions provide a professional shield and an optional strain relief
- CP-PC RD keying profile

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

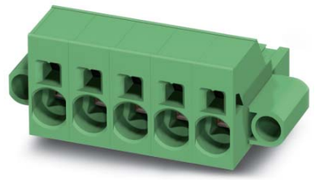
COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products**
or starting on page 488.

When using ferrules for 16 mm² conductors, crimp with CRIMPFOX 16 S (see accessories).

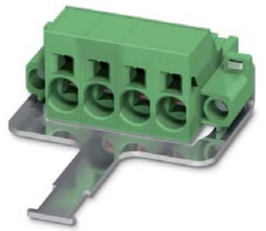
1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



Without screw flange, 600 V UL approval



With screw flange, 600 V UL approval



With screw flange and shield, 600 V UL approval

Accessories

For all types	Type	Page
	Keying profile **CP-PC RD** **Order No. 1701967**	38
	Screwdriver **SZF 2-0,8 x4,0** **Order No. 1204520**	
	Marker strips **SK 5,0 WH:REEL** **Order No. 0805221**	801
	Crimping pliers for 0.25 to 6 mm² **CRIMPFOX 6** **Order No. 1212034**	
	Crimping pliers for 10 to 16 mm² **CRIMPFOX 16 S** **Order No. 1207983**	

Dimensional drawing

Note derating curves

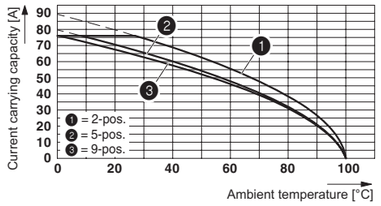
Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 16 mm²
Reduction factor = 0.8
Number of positions = see diagram

Dimensional drawing



Representative derating curve

Type: SPC 16/...-ST-10,16 with PC 6-16/...-G1-10,16



Dimensional drawing

Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	76¹) / 16		
Rated insulation voltage for pollution degree 2	[V]	1000		
Pitch	[mm]	10.16		
Connection capacity				
Solid & multi-strand / stranded	[mm²] / [mm²] / AWG	0.75 - 16 / 0.75 - 16 / 18 - 4		
Stranded with ferrules without plastic sleeve	[mm²]	0.75 - 16		
Stranded with ferrules with plastic sleeve	[mm²]	0.75 - 10		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid & multi-strand / stranded	[mm²]	- / -		
Stranded with ferrules without plastic sleeve	[mm²]	-		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.75 - 4		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	1000	1000	1000
Rated surge voltage	[kV]	8	8	6
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	600	600	-
Nominal current	[A]	66	66	-
Connection capacity AWG	AWG	20 - 4	20 - 4	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Stripping length	[mm]	18		
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		

Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		Pitch 10.16 mm, color: Green		
2	10.16	**SPC 16/ 2-ST-10,16**	**1711268**	50
3	20.32	**SPC 16/ 3-ST-10,16**	**1711271**	50
4	30.48	**SPC 16/ 4-ST-10,16**	**1711284**	50
5	40.64	**SPC 16/ 5-ST-10,16**	**1711297**	50
6	50.80	**SPC 16/ 6-ST-10,16**	**1711307**	50
7	60.96	**SPC 16/ 7-ST-10,16**	**1711310**	50
8	71.12	**SPC 16/ 8-ST-10,16**	**1711323**	50
9	81.28	**SPC 16/ 9-ST-10,16**	**1711336**	50

Ordering data

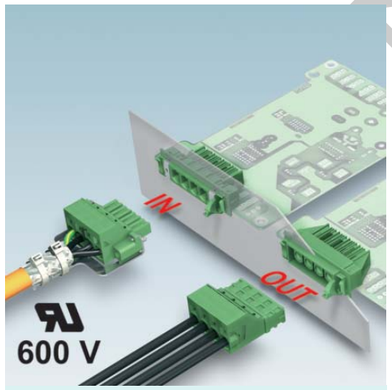
Type	Order No.	Pcs. / Pkt.
Pitch 10.16 mm, color: Green		
SPC 16/ 2-STF-10,16	**1711378**	50
SPC 16/ 3-STF-10,16	**1711381**	50
SPC 16/ 4-STF-10,16	**1711394**	50
SPC 16/ 5-STF-10,16	**1711404**	50
SPC 16/ 6-STF-10,16	**1711417**	50
SPC 16/ 7-STF-10,16	**1711420**	50
SPC 16/ 8-STF-10,16	**1711433**	50
SPC 16/ 9-STF-10,16	**1711446**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 10.16 mm, color: Green		
SPC 16/ 4-STF-SH-10,16	**1711488**	50

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Plugs with screw and spring connection



- Inverted ISPC 16 push-in spring connection plugs with pin contact for touch-proof device outputs (with IPC 16 G) or free-hanging cable/cable connections
- Unrestricted 600-V-UL approval
- Can be plugged into (S)PC 16 plugs or inverted IPC 16 headers
- Increased vibration protection thanks to screw-on STF plug with screw flange
- STGF plugs with threaded flange for free hanging cable/cable connections

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products**
or starting on page 488.

When using ferrules for 16 mm² conductors, crimp with CRIMPFOX 16 S (see accessories).

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



Without screw flange, 600 V UL approval



With screw flange, 600 V UL approval



With threaded flange, 600 V UL approval

Accessories

For all types	Type	Page
	Keying profile **CP-PC RD** **Order No. 1701967**	38
	Screwdriver **SZF 2-0,8 x4,0** **Order No. 1204520**	
	Marker strips **SK 5,0 WH:REEL** **Order No. 0805221**	801
	Crimping pliers for 0.25 to 6 mm² **CRIMPFOX 6** **Order No. 1212034**	
	Crimping pliers for 10 to 16 mm² **CRIMPFOX 16 S** **Order No. 1207983**	

Dimensional drawing

Note derating curves

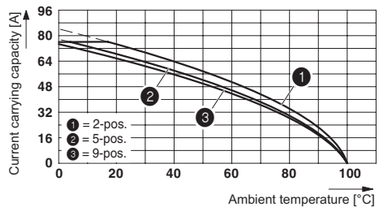
Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 16 mm²
Reduction factor = 0.8
Number of positions = see diagram

Dimensional drawing



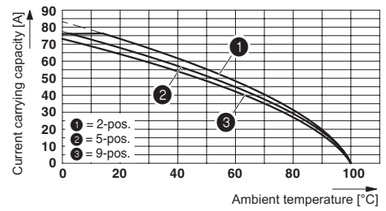
Representative derating curves of the above-mentioned plugs

Type: ISPC 16/...-ST-10,16 with IPC 16/...-G-10,16



Dimensional drawing

Type: ISPC 16/...-ST-10,16 with SPC 16/...-ST-10,16



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	76¹) / 16		
Rated insulation voltage for pollution degree 2	[V]	1000		
Pitch	[mm]	10.16		
Connection capacity				
Solid & multi-strand / stranded	[mm²] / [mm²] / AWG	0.75 - 16 / 0.75 - 16 / 18 - 4		
Stranded with ferrules without plastic sleeve	[mm²]	0.75 - 16		
Stranded with ferrules with plastic sleeve	[mm²]	0.75 - 10		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid & multi-strand / stranded	[mm²]	- / -		
Stranded with ferrules without plastic sleeve	[mm²]	-		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.75 - 4		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	1000	1000	1000
Rated surge voltage	[kV]	8	8	6
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	600	600	-
Nominal current	[A]	66	66	-
Connection capacity AWG	AWG	20 - 4	20 - 4	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Stripping length	[mm]	18		
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		

Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		Pitch 10.16 mm, color: Green		
2	10.16	**ISPC 16/ 2-ST-10,16**	**1748545**	50
3	20.32	**ISPC 16/ 3-ST-10,16**	**1748558**	50
4	30.48	**ISPC 16/ 4-ST-10,16**	**1748561**	50
5	40.64	**ISPC 16/ 5-ST-10,16**	**1748574**	50
6	50.80	**ISPC 16/ 6-ST-10,16**	**1748587**	50
7	60.96	**ISPC 16/ 7-ST-10,16**	**1748590**	50
8	71.12	**ISPC 16/ 8-ST-10,16**	**1748600**	50
9	81.28	**ISPC 16/ 9-ST-10,16**	**1748613**	50

Ordering data

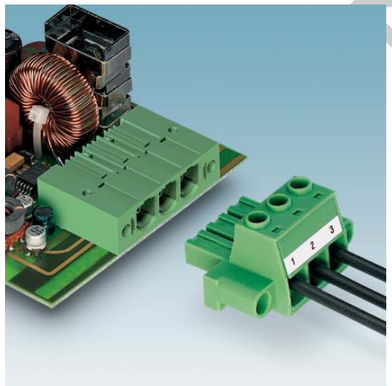
Type	Order No.	Pcs. / Pkt.
Pitch 10.16 mm, color: Green		
ISPC 16/ 2-STF-10,16	**1748626**	50
ISPC 16/ 3-STF-10,16	**1748639**	50
ISPC 16/ 4-STF-10,16	**1748642**	50
ISPC 16/ 5-STF-10,16	**1748655**	50
ISPC 16/ 6-STF-10,16	**1748668**	50
ISPC 16/ 7-STF-10,16	**1748671**	50
ISPC 16/ 8-STF-10,16	**1748684**	50
ISPC 16/ 9-STF-10,16	**1748697**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 10.16 mm, color: Green		
ISPC 16/ 2-STGF-10,16	**1748707**	50
ISPC 16/ 3-STGF-10,16	**1748710**	50
ISPC 16/ 4-STGF-10,16	**1748723**	50
ISPC 16/ 5-STGF-10,16	**1748736**	50
ISPC 16/ 6-STGF-10,16	**1748749**	50
ISPC 16/ 7-STGF-10,16	**1748752**	50
ISPC 16/ 8-STGF-10,16	**1748765**	50
ISPC 16/ 9-STGF-10,16	**1748778**	50

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Headers with pin contact



- PC 6-16 headers for use in combination with all PC 6 and PC 16 plugs
- PCB-PCB connections by using IPC 16 headers
- G1U versions for a solder-in direction rotated by 180°
- Shroud PCB-SHIELD for a professional EMC shield connection
- Threaded flange G1F (also for screw connection on the PCB or in the device)
- Suitable for 600 V UL when used in combination with PC 16 screw and spring-cage plugs

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products**
or starting on page 488.

Mounting screw for PC-6-16/...-G1F-10,16 and PC 6-16/...-G1FU-10,16: sheet metal screw ISO 1481-ST 2,9 C. Screw connection only permitted prior to soldering.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



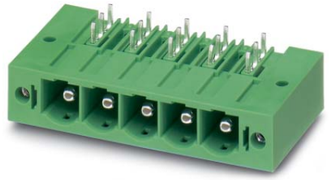
Without threaded flange



With threaded flange



Rotated 180°, without threaded flange

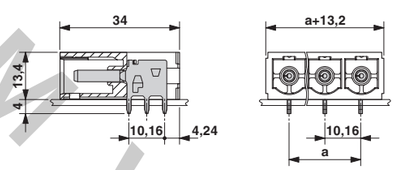


Rotated 180°, with threaded flange

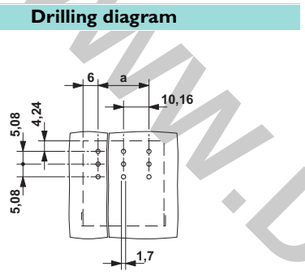
Accessories

For all types	Type	Page
	Keying profile **CP-PC RD** **Order No.** **1701967**	38
	Keying pin **CS-IPC 16/6** **Order No.** **1970016**	38
	Marker strips **SK 5,0 WH:REEL** **Order No.** **0805221**	801
Only for PC 6-16/...-G1(U)-10,16		
	Shroud **POWER COMBICON PCB-SHIELD** **Order No.** **1968387**	

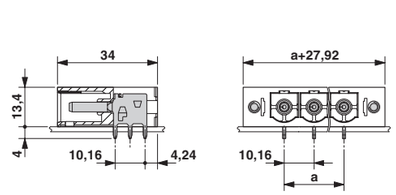
Dimensional drawing



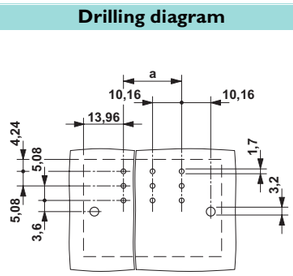
Drilling diagram



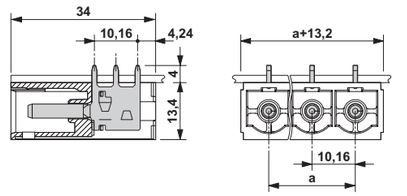
Dimensional drawing



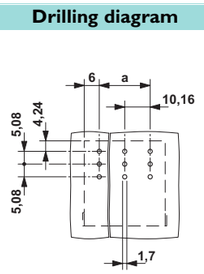
Drilling diagram



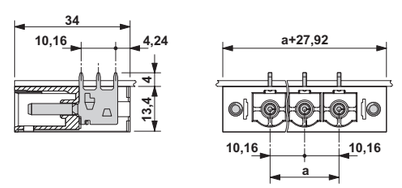
Dimensional drawing



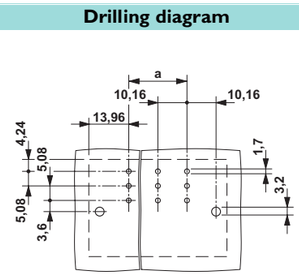
Drilling diagram



Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current	[A]	76[1]		
Rated insulation voltage for pollution degree 2	[V]	1000		
Pitch	[mm]	10.16		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	1000	1000	1000
Rated surge voltage	[kV]	8	8	6
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	300	600
Nominal current	[A]	66	66	5
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.7 / 1 x 1.2 mm		

Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		Pitch 10.16 mm, color: Green		
2	10.16	**PC 6-16/ 2-G1-10,16**	**1998933**	50
3	20.32	**PC 6-16/ 3-G1-10,16**	**1998946**	50
4	30.48	**PC 6-16/ 4-G1-10,16**	**1998959**	50
5	40.64	**PC 6-16/ 5-G1-10,16**	**1998962**	50
6	50.80	**PC 6-16/ 6-G1-10,16**	**1998975**	50
7	60.96	**PC 6-16/ 7-G1-10,16**	**1998988**	50
8	71.12	**PC 6-16/ 8-G1-10,16**	**1998991**	50
9	81.28	**PC 6-16/ 9-G1-10,16**	**1996391**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 10.16 mm, color: Green		
PC 6-16/ 2-G1F-10,16	**1999000**	50
PC 6-16/ 3-G1F-10,16	**1999013**	50
PC 6-16/ 4-G1F-10,16	**1999026**	50
PC 6-16/ 5-G1F-10,16	**1999039**	50
PC 6-16/ 6-G1F-10,16	**1999042**	50
PC 6-16/ 7-G1F-10,16	**1999055**	50
PC 6-16/ 8-G1F-10,16	**1999068**	50
PC 6-16/ 9-G1F-10,16	**1996401**	50

Ordering data

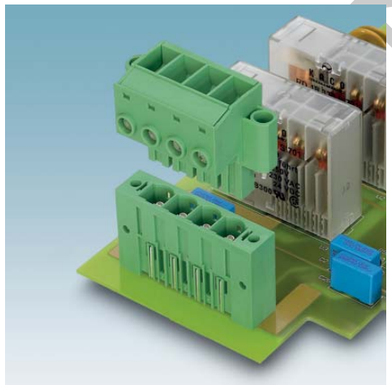
Type	Order No.	Pcs. / Pkt.
Pitch 10.16 mm, color: Green		
PC 6-16/ 2-G1U-10,16	**1996236**	50
PC 6-16/ 3-G1U-10,16	**1996249**	50
PC 6-16/ 4-G1U-10,16	**1996252**	50
PC 6-16/ 5-G1U-10,16	**1996265**	50
PC 6-16/ 6-G1U-10,16	**1996278**	50
PC 6-16/ 7-G1U-10,16	**1996281**	50
PC 6-16/ 8-G1U-10,16	**1996294**	50
PC 6-16/ 9-G1U-10,16	**1996304**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 10.16 mm, color: Green		
PC 6-16/ 2-G1FU-10,16	**1996317**	50
PC 6-16/ 3-G1FU-10,16	**1996320**	50
PC 6-16/ 4-G1FU-10,16	**1996333**	50
PC 6-16/ 5-G1FU-10,16	**1996346**	50
PC 6-16/ 6-G1FU-10,16	**1996359**	50
PC 6-16/ 7-G1FU-10,16	**1996362**	50
PC 6-16/ 8-G1FU-10,16	**1996375**	50
PC 6-16/ 9-G1FU-10,16	**1996388**	50

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Headers with pin contact



- Vertical PCV 6-16 headers for use in combination with all PC 6 and PC 16 plugs
- PCB-PCB connections by using IPC 16 headers
- Threaded flange G1F (also for screw connection on the PCB or in the device)
- CS-IPC 16/6 to serve as an anti-rotation element during assembly
- Suitable for 600 V UL when used in combination with PC 16 screw and spring-cage plugs

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products**
or starting on page 488.

Mounting screw for PCV 6-16/...-G1F-10,16: sheet metal screw ISO 1481-ST 2,9 C. Screw connection only permitted prior to soldering.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



Without threaded flange

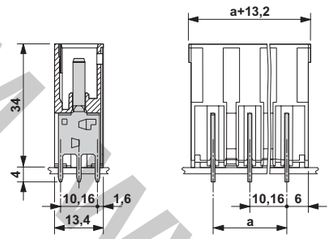


With threaded flange

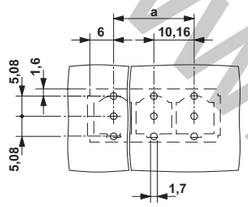
Accessories

For all types	Type	Page
	Keying profile **CP-PC RD** **Order No. 1701967**	38
	Keying pin **CS-IPC 16/6** **Order No. 1970016**	38
	Marker strips **SK 5,0 WH:REEL** **Order No. 0805221**	801

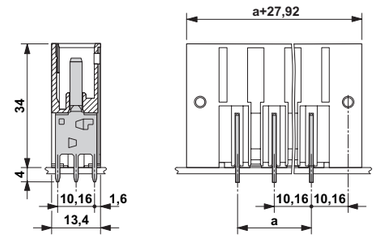
Dimensional drawing



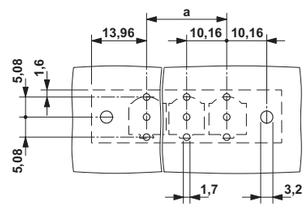
Drilling diagram



Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current	[A]	76[1]		
Rated insulation voltage for pollution degree 2	[V]	1000		
Pitch	[mm]	10.16		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	1000	1000	1000
Rated surge voltage	[kV]	6	8	8
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	300	600
Nominal current	[A]	66	66	5
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.7 / 1 x 1.2 mm		

Ordering data

No. of pos.	Dim. a [mm]
2	10.16
3	20.32
4	30.48
5	40.64
6	50.80
7	60.96
8	71.12
9	81.28

Ordering data

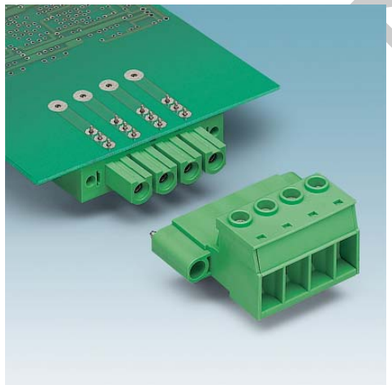
Type	Order No.	Pcs. / Pkt.
Pitch 10.16 mm, color: Green		
PCV 6-16/ 2-G1-10,16	**1998784**	50
PCV 6-16/ 3-G1-10,16	**1998797**	50
PCV 6-16/ 4-G1-10,16	**1998807**	50
PCV 6-16/ 5-G1-10,16	**1998810**	50
PCV 6-16/ 6-G1-10,16	**1998823**	50
PCV 6-16/ 7-G1-10,16	**1998836**	50
PCV 6-16/ 8-G1-10,16	**1998849**	50
PCV 6-16/ 9-G1-10,16	**1998852**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 10.16 mm, color: Green		
PCV 6-16/ 2-G1F-10,16	**1998865**	50
PCV 6-16/ 3-G1F-10,16	**1998878**	50
PCV 6-16/ 4-G1F-10,16	**1998881**	50
PCV 6-16/ 5-G1F-10,16	**1998894**	50
PCV 6-16/ 6-G1F-10,16	**1998904**	50
PCV 6-16/ 7-G1F-10,16	**1998917**	50
PCV 6-16/ 8-G1F-10,16	**1998920**	50
PCV 6-16/ 9-G1F-10,16	**1996414**	50

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Headers with socket contact



- An inverted IPC 16 header to implement a touch-proof PCB output or a PCB-PCB-connection (in combination with PC 6-16 base strips)
- GU versions for a solder-in direction rotated by 180°
- Threaded flange GF (also for screw connection on the PCB or in the device)
- Shroud PCB-SHIELD (EMC connection)
- Suitable for 600 V UL when used in combination with PC 16 screw and spring-cage plugs

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products**
or starting on page 488.

Mounting screw for IPC 16/...-GF-10,16 and IPC 16/...-GFU-10,16: sheet metal screw ISO 1481-ST 2,9 C. Screw connection only permitted prior to soldering.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

Accessories

For all types	Type	Page
	Keying profile **CP-PC RD** **Order No. 1701967**	38
	Keying pin **CS-IPC 16/6** **Order No. 1970016**	38
	Marker strips **SK 5,0 WH:REEL** **Order No. 0805221**	801
Only for IPC 16/...-G(F)U-10,6		
	Shroud **POWER COMBICON PCB-SHIELD** **Order No. 1968387**	



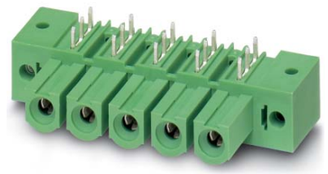
Without threaded flange



With threaded flange

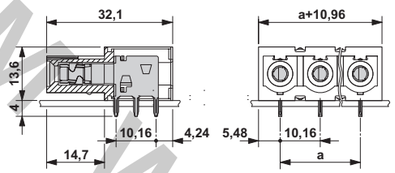


Rotated 180°, without threaded flange

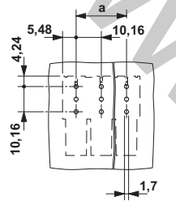


Rotated 180°, with threaded flange

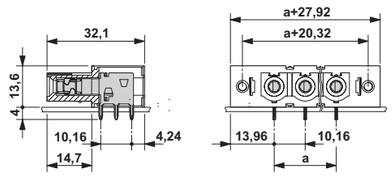
Dimensional drawing



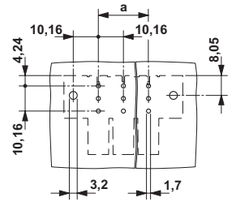
Drilling diagram



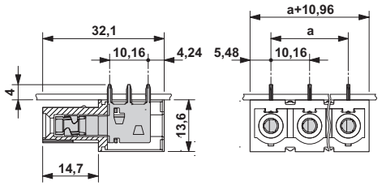
Dimensional drawing



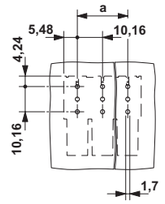
Drilling diagram



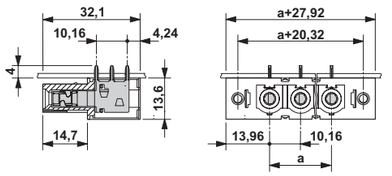
Dimensional drawing



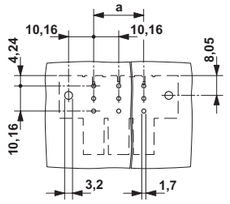
Drilling diagram



Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current	[A]	76¹)		
Rated insulation voltage for pollution degree 2	[V]	1000		
Pitch	[mm]	10.16		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	1000	1000	1000
Rated surge voltage	[kV]	8	8	8
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	300	600
Nominal current	[A]	66	66	5
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.7 / 0,8 x 1,2		

No. of pos.	Dim. a [mm]
2	10.16
3	20.32
4	30.48
5	40.64
6	50.80
7	60.96
8	71.12
9	81.28

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 10.16 mm, color: Green		
IPC 16/ 2-G-10,16	**1969535**	50
IPC 16/ 3-G-10,16	**1969548**	50
IPC 16/ 4-G-10,16	**1969551**	50
IPC 16/ 5-G-10,16	**1969564**	50
IPC 16/ 6-G-10,16	**1969577**	50
IPC 16/ 7-G-10,16	**1969580**	50
IPC 16/ 8-G-10,16	**1969593**	50
IPC 16/ 9-G-10,16	**1969603**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 10.16 mm, color: Green		
IPC 16/ 2-GF-10,16	**1969616**	50
IPC 16/ 3-GF-10,16	**1969629**	50
IPC 16/ 4-GF-10,16	**1969632**	50
IPC 16/ 5-GF-10,16	**1969645**	50
IPC 16/ 6-GF-10,16	**1969658**	50
IPC 16/ 7-GF-10,16	**1969661**	50
IPC 16/ 8-GF-10,16	**1969674**	50
IPC 16/ 9-GF-10,16	**1969687**	50

Ordering data

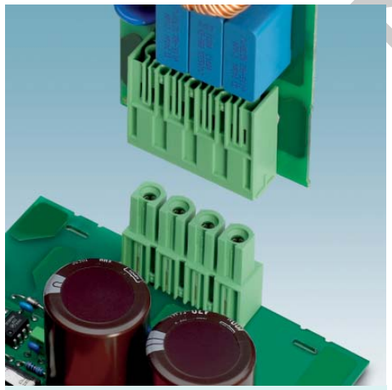
Type	Order No.	Pcs. / Pkt.
Pitch 10.16 mm, color: Green		
IPC 16/ 2-GU-10,16	**1969852**	50
IPC 16/ 3-GU-10,16	**1969865**	50
IPC 16/ 4-GU-10,16	**1969878**	50
IPC 16/ 5-GU-10,16	**1969881**	50
IPC 16/ 6-GU-10,16	**1969894**	50
IPC 16/ 7-GU-10,16	**1969904**	50
IPC 16/ 8-GU-10,16	**1969917**	50
IPC 16/ 9-GU-10,16	**1969920**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 10.16 mm, color: Green		
IPC 16/ 2-GFU-10,16	**1969933**	50
IPC 16/ 3-GFU-10,16	**1969946**	50
IPC 16/ 4-GFU-10,16	**1969959**	50
IPC 16/ 5-GFU-10,16	**1969962**	50
IPC 16/ 6-GFU-10,16	**1969975**	50
IPC 16/ 7-GFU-10,16	**1969988**	50
IPC 16/ 8-GFU-10,16	**1969991**	50
IPC 16/ 9-GFU-10,16	**1970003**	50

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Headers with socket contact



- An inverted IPC 16 header in a vertical design to implement a touch-proof PCB output or a PCB-PCB connection (in combination with PC 6-16 base strips)
- Integrated double steel spring
- Threaded flange GF (also for screw connection on the PCB or in the device)
- CS-IPC 16/6 to serve as an anti-rotation element during assembly
- Suitable for 600 V UL when used in combination with PC 16 screw and spring-cage plugs

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products**
or starting on page 488.

Mounting screw for IPCV 16/...-GF-10,16: sheet metal screw ISO 1481-ST 2,9 C. Screw connection only permitted prior to soldering.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.



Without threaded flange

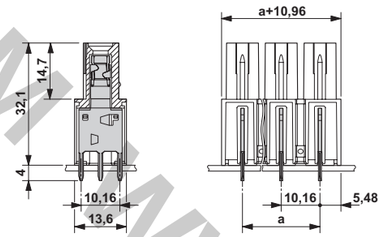


With threaded flange

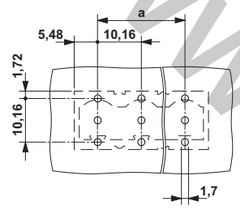
Accessories

For all types	Type	Page
	Keying profile **CP-PC RD** **Order No. 1701967**	38
	Keying pin **CS-IPC 16/6** **Order No. 1970016**	38
	Marker strips **SK 5,0 WH:REEL** **Order No. 0805221**	801

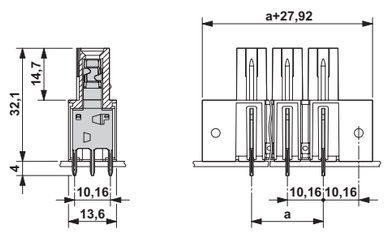
Dimensional drawing



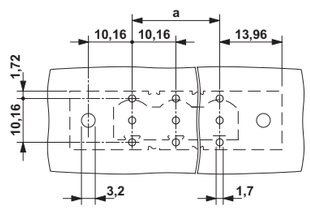
Drilling diagram



Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current	[A]	76¹)		
Rated insulation voltage for pollution degree 2	[V]	1000		
Pitch	[mm]	10.16		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	1000	1000	1000
Rated surge voltage	[kV]	8	8	8
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	300	600
Nominal current	[A]	66	66	5
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.7 / 0,8 x 1,2		

No. of pos.	Dim. a [mm]
2	10.16
3	20.32
4	30.48
5	40.64
6	50.80
7	60.96
8	71.12
9	81.28

Ordering data

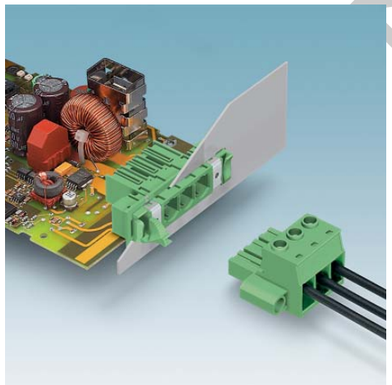
Type	Order No.	Pcs. / Pkt.
Pitch 10.16 mm, color: Green		
IPCV 16/ 2-G-10,16	**1969690**	50
IPCV 16/ 3-G-10,16	**1969700**	50
IPCV 16/ 4-G-10,16	**1969713**	50
IPCV 16/ 5-G-10,16	**1969726**	50
IPCV 16/ 6-G-10,16	**1969739**	50
IPCV 16/ 7-G-10,16	**1969742**	50
IPCV 16/ 8-G-10,16	**1969755**	50
IPCV 16/ 9-G-10,16	**1969768**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
Pitch 10.16 mm, color: Green		
IPCV 16/ 2-GF-10,16	**1969771**	50
IPCV 16/ 3-GF-10,16	**1969784**	50
IPCV 16/ 4-GF-10,16	**1969797**	50
IPCV 16/ 5-GF-10,16	**1969807**	50
IPCV 16/ 6-GF-10,16	**1969810**	50
IPCV 16/ 7-GF-10,16	**1969823**	50
IPCV 16/ 8-GF-10,16	**1969836**	50
IPCV 16/ 9-GF-10,16	**1969849**	50

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Feed-through headers with pin/socket contact



- Feed-through headers for use in combination with all PC 6 and PC 16 plugs
- To solder onto the PCB
- Mounting on the housing wall using the snap-lock mechanism to be operated without tools or the classical screw connection
- Wall thicknesses from 1 mm to 3 mm
- In GF versions, shielding functions can be executed on the housing wall
- Suitable for 600 V UL when used in combination with PC 16 screw and spring-cage plugs

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products**
or starting on page 488.

The cutout dimensions and mounting options for the feed-through versions can be found on page 595.

Mounting screw for DFK-PC 6-16/...-G-10,16 and DFK-PC 6-16/...-GU-10,16: sheet metal screw ISO 1481-ST 2,9 C. Screw connection only permitted prior to soldering.

¹) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

Accessories

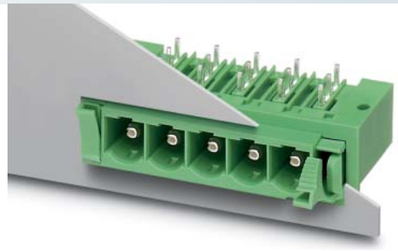
For all types	Type	Page
	Keying profile **CP-PC RD** **Order No. 1701967**	38
	Keying pin **CS-IPC 16/6** **Order No. 1970016**	38
	Screws for mounting on the housing panel **DFK-PC 16-SS** **Order No. 1705449**	
	Marker strips **SK 5,0 WH:REEL** **Order No. 0805221**	801



Without threaded flange



With threaded flange and shield connection on the front of the device

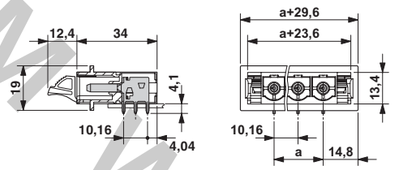


Rotated 180°, without threaded flange

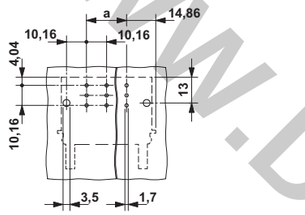


Rotated 180°, with threaded flange and shield connection on the front of the device

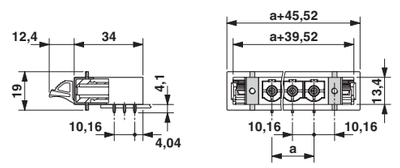
Dimensional drawing



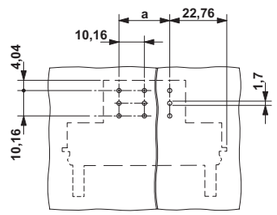
Drilling diagram



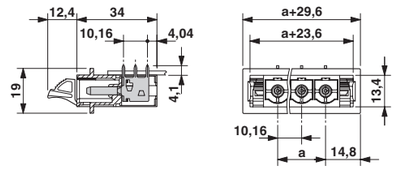
Dimensional drawing



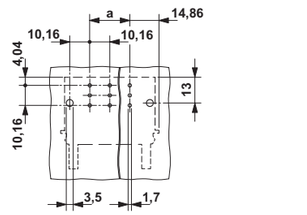
Drilling diagram



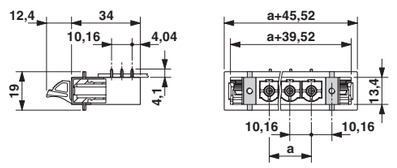
Dimensional drawing



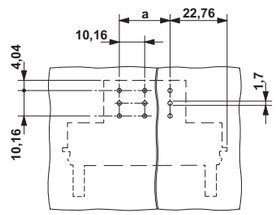
Drilling diagram



Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current	[A]	76¹)		
Rated insulation voltage for pollution degree 2	[V]	1000		
Pitch	[mm]	10.16		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	1000	1000	1000
Rated surge voltage	[kV]	8	8	6
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	300	600
Nominal current	[A]	66	66	5
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.7 / 1,0 x 1,2 mm		

Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		10.16 mm pitch, color: Green, for 1.0 to 3.0 mm thick housing walls		
2	10.16	**DFK-PC 6-16/ 2-G-10,16**	**1701456**	10
3	20.32	**DFK-PC 6-16/ 3-G-10,16**	**1701469**	10
4	30.48	**DFK-PC 6-16/ 4-G-10,16**	**1701472**	10
5	40.64	**DFK-PC 6-16/ 5-G-10,16**	**1701485**	10
6	50.80	**DFK-PC 6-16/ 6-G-10,16**	**1701498**	10
7	60.96	**DFK-PC 6-16/ 7-G-10,16**	**1701508**	10
8	71.12	**DFK-PC 6-16/ 8-G-10,16**	**1701511**	10
9	81.28	**DFK-PC 6-16/ 9-G-10,16**	**1701524**	10

Ordering data

Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, color: Green, for 1.0 to 3.0 mm thick housing walls		
DFK-PC 6-16/ 2-GF-10,16	**1701537**	10
DFK-PC 6-16/ 3-GF-10,16	**1701540**	10
DFK-PC 6-16/ 4-GF-10,16	**1701553**	10
DFK-PC 6-16/ 5-GF-10,16	**1701566**	10
DFK-PC 6-16/ 6-GF-10,16	**1701579**	10
DFK-PC 6-16/ 7-GF-10,16	**1701582**	10
DFK-PC 6-16/ 8-GF-10,16	**1701595**	10
DFK-PC 6-16/ 9-GF-10,16	**1701605**	10

Ordering data

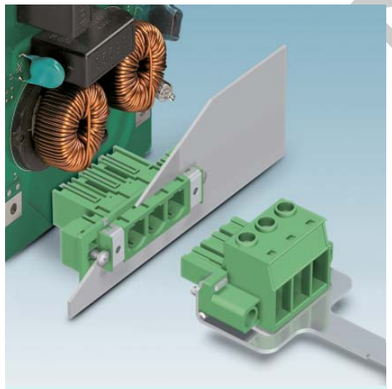
Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, color: Green, for 1.0 to 3.0 mm thick housing walls		
DFK-PC 6-16/ 2-GU-10,16	**1701618**	10
DFK-PC 6-16/ 3-GU-10,16	**1701621**	10
DFK-PC 6-16/ 4-GU-10,16	**1701634**	10
DFK-PC 6-16/ 5-GU-10,16	**1701647**	10
DFK-PC 6-16/ 6-GU-10,16	**1701650**	10
DFK-PC 6-16/ 7-GU-10,16	**1701663**	10
DFK-PC 6-16/ 8-GU-10,16	**1701676**	10
DFK-PC 6-16/ 9-GU-10,16	**1701689**	10

Ordering data

Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, color: Green, for 1.0 to 3.0 mm thick housing walls		
DFK-PC 6-16/ 2-GFU-10,16	**1701692**	10
DFK-PC 6-16/ 3-GFU-10,16	**1701702**	10
DFK-PC 6-16/ 4-GFU-10,16	**1701715**	10
DFK-PC 6-16/ 5-GFU-10,16	**1701728**	10
DFK-PC 6-16/ 6-GFU-10,16	**1701731**	10
DFK-PC 6-16/ 7-GFU-10,16	**1701744**	10
DFK-PC 6-16/ 8-GFU-10,16	**1701757**	10
DFK-PC 6-16/ 9-GFU-10,16	**1701760**	10

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Feed-through headers with pin/socket contact



- Feed-through headers for use in combination with all PC 6 and PC 16 plugs
- To solder onto the PCB
- In SH versions, shielding functions can be executed on the inside of the device as well.
- Mounting on the housing wall using the snap-lock mechanism to be operated without tools or the classical screw connection
- Wall thicknesses from 1 mm to 3 mm
- Suitable for 600 V UL when used in combination with PC 16 screw and spring-cage plugs

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products**
or starting on page 488.

The cutout dimensions and mounting options for the feed-through versions can be found on page 595.

Mounting screw for DFK-PCV 6-16/...-G-10,16: sheet metal screw ISO 1481-ST 2,9 C. Screw connection only permitted prior to soldering.

1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

Accessories

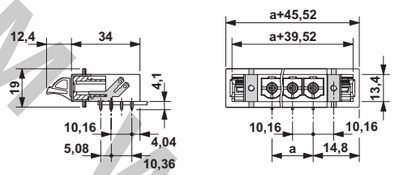
For all types	Type	Page
	Keying profile **CP-PC RD** **Order No. 1701967**	38
	Keying pin **CS-IPC 16/6** **Order No. 1970016**	38
	Screws for mounting on the housing panel **DFK-PC 16-SS** **Order No. 1705449**	
	Marker strips **SK 5,0 WH:REEL** **Order No. 0805221**	801



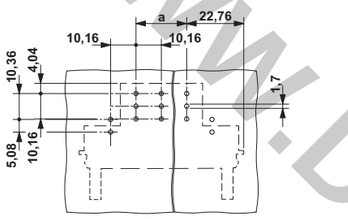
Horizontal, with threaded flange and shield feed-through on the inside of the device

cULus SEV CCA CB

Dimensional drawing



Drilling diagram



Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		10.16 mm pitch, color: Green, for 1.0 to 3.0 mm thick housing walls		
2	10.16	**DFK-PC 6-16/ 2-GF-SH-10,16**	**1701935**	10
3	20.32	**DFK-PC 6-16/ 3-GF-SH-10,16**	**1701948**	10
4	30.48	**DFK-PC 6-16/ 4-GF-SH-10,16**	**1701951**	10
5	40.64	**DFK-PC 6-16/ 5-GF-SH-10,16**	**1701964**	10
6	50.80	**DFK-PC 6-16/ 6-GF-SH-10,16**	**1701977**	10
7	60.96	**DFK-PC 6-16/ 7-GF-SH-10,16**	**1701980**	10
8	71.12	**DFK-PC 6-16/ 8-GF-SH-10,16**	**1701993**	10
9	81.28	**DFK-PC 6-16/ 9-GF-SH-10,16**	**1702002**	10

Technical data

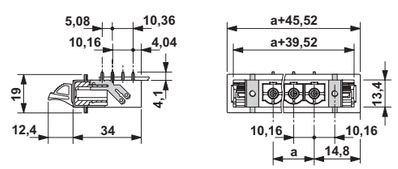
Technical data in accordance to IEC / DIN VDE				
Rated current	[A]	76[1]		
Rated insulation voltage for pollution degree 2	[V]	1000		
Pitch	[mm]	10.16		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	1000	1000	1000
Rated surge voltage	[kV]	8	8	6
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	300	600
Nominal current	[A]	66	66	5
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.7 / 1,0 x 1,2 mm		



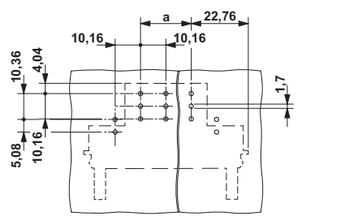
Horizontal, rotated 180°, with threaded flange and shield feed-through on the inside of the device

cULus SEV CCA CB

Dimensional drawing



Drilling diagram



Ordering data

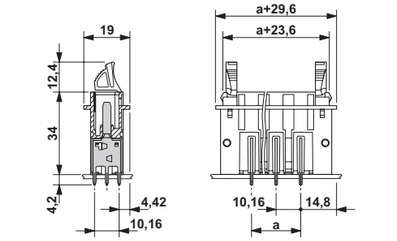
Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, color: Green, for 1.0 to 3.0 mm thick housing walls		
DFK-PC 6-16/ 2-GFU-SH-10,16	**1702015**	10
DFK-PC 6-16/ 3-GFU-SH-10,16	**1702028**	10
DFK-PC 6-16/ 4-GFU-SH-10,16	**1702031**	10
DFK-PC 6-16/ 5-GFU-SH-10,16	**1702044**	10
DFK-PC 6-16/ 6-GFU-SH-10,16	**1702057**	10
DFK-PC 6-16/ 7-GFU-SH-10,16	**1702060**	10
DFK-PC 6-16/ 8-GFU-SH-10,16	**1702073**	10
DFK-PC 6-16/ 9-GFU-SH-10,16	**1702086**	10



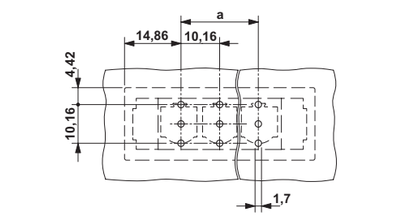
Vertical, without threaded flange

cULus SEV CCA CB

Dimensional drawing



Drilling diagram



Ordering data

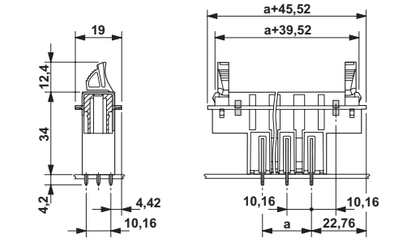
Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, color: Green, for 1.0 to 3.0 mm thick housing walls		
DFK-PCV 6-16/ 2-G-10,16	**1702099**	10
DFK-PCV 6-16/ 3-G-10,16	**1702109**	10
DFK-PCV 6-16/ 4-G-10,16	**1702112**	10
DFK-PCV 6-16/ 5-G-10,16	**1702125**	10
DFK-PCV 6-16/ 6-G-10,16	**1702138**	10
DFK-PCV 6-16/ 7-G-10,16	**1702141**	10
DFK-PCV 6-16/ 8-G-10,16	**1702154**	10
DFK-PCV 6-16/ 9-G-10,16	**1702167**	10



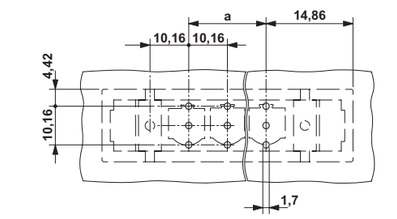
Vertical, with threaded flange and shield connection on the front of the device

cULus SEV CCA CB

Dimensional drawing



Drilling diagram

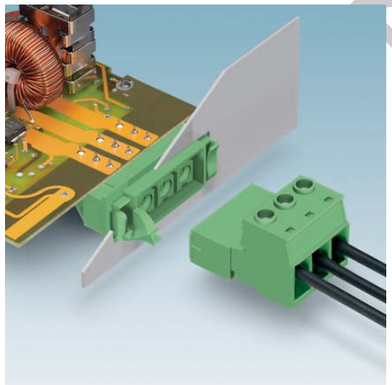


Ordering data

Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, color: Green, for 1.0 to 3.0 mm thick housing walls		
DFK-PCV 6-16/ 2-GF-10,16	**1702251**	10
DFK-PCV 6-16/ 3-GF-10,16	**1702264**	10
DFK-PCV 6-16/ 4-GF-10,16	**1702277**	10
DFK-PCV 6-16/ 5-GF-10,16	**1702280**	10
DFK-PCV 6-16/ 6-GF-10,16	**1702293**	10
DFK-PCV 6-16/ 7-GF-10,16	**1702303**	10
DFK-PCV 6-16/ 8-GF-10,16	**1702316**	10
DFK-PCV 6-16/ 9-GF-10,16	**1702329**	10

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Feed-through headers with pin/socket contact



- An inverted feed-through header to implement a touch-proof PCB output (in combination with IPC 16 ST)
- To solder onto the PCB
- A snap-lock mechanism to be operated without tools or a classical screw connection
- Wall thicknesses from 1 mm to 3 mm
- In GF versions, shielding functions can be executed on the housing wall
- Suitable for 600 V UL when used in combination with IPC 16 screw and spring-cage plugs

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

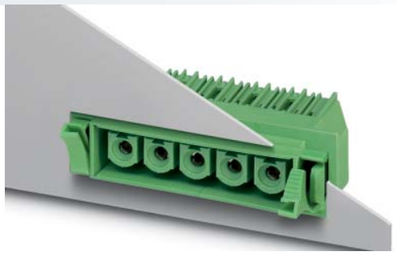
COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 488.

The cutout dimensions and mounting options for the feed-through versions can be found on page 595.

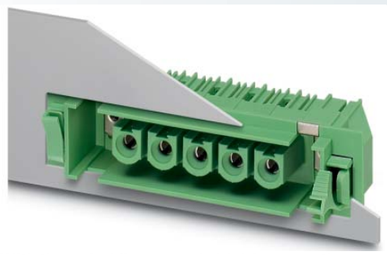
1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

Accessories

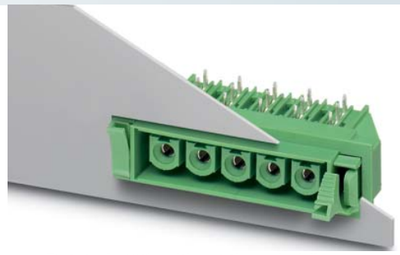
For all types	Type	Page
	Keying profile **CP-PC RD** **Order No. 1701967**	38
	Keying pin **CS-IPC 16/6** **Order No. 1970016**	38
	Screws for mounting on the housing panel **DFK-PC 16-SS** **Order No. 1705449**	
	Marker strips **SK 5,0 WH:REEL** **Order No. 0805221**	801



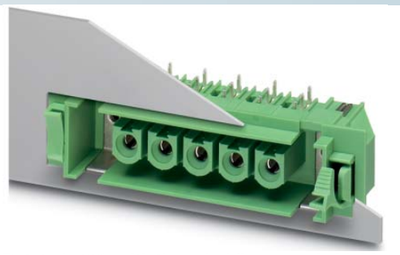
Without threaded flange



With threaded flange and shield connection on the front of the device

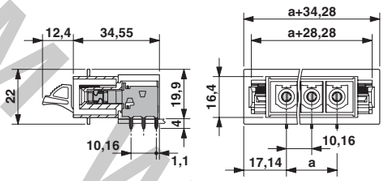


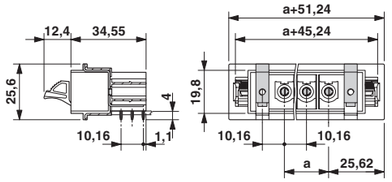
Rotated 180°, without threaded flange

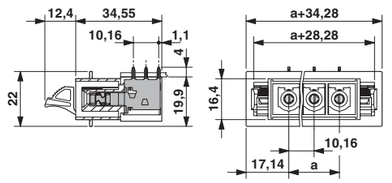


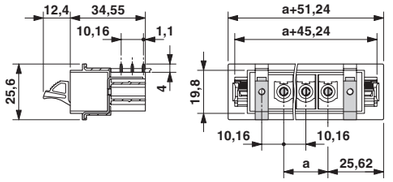
Rotated 180°, with threaded flange and shield connection on the front of the device

Dimensional drawing

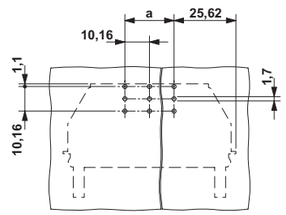


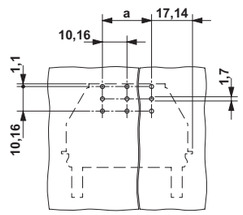


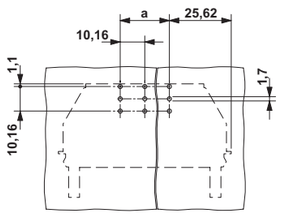




Drilling diagram







Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current	[A]	76[1]		
Rated insulation voltage for pollution degree 2	[V]	1000		
Pitch	[mm]	10.16		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	1000	1000	1000
Rated surge voltage	[kV]	8	8	6
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	300	600
Nominal current	[A]	66	66	5
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.7 / 0,8 x 1,2		

No. of pos.	Dim. a [mm]
2	10.16
3	20.32
4	30.48
5	40.64
6	50.80
7	60.96
8	71.12
9	81.28

Ordering data

Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, color: Green, for 1.0 to 3.0 mm thick housing walls		
DFK-IPC 16/ 2-G-10,16	1702413	10
DFK-IPC 16/ 3-G-10,16	1702426	10
DFK-IPC 16/ 4-G-10,16	1702439	10
DFK-IPC 16/ 5-G-10,16	1702442	10
DFK-IPC 16/ 6-G-10,16	1702455	10
DFK-IPC 16/ 7-G-10,16	1702468	10
DFK-IPC 16/ 8-G-10,16	1702471	10
DFK-IPC 16/ 9-G-10,16	1702484	10

Ordering data

Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, color: Green, for 1.0 to 3.0 mm thick housing walls		
DFK-IPC 16/ 2-GF-10,16	1702730	10
DFK-IPC 16/ 3-GF-10,16	1702743	10
DFK-IPC 16/ 4-GF-10,16	1702756	10
DFK-IPC 16/ 5-GF-10,16	1702769	10
DFK-IPC 16/ 6-GF-10,16	1702772	10
DFK-IPC 16/ 7-GF-10,16	1702785	10
DFK-IPC 16/ 8-GF-10,16	1702798	10
DFK-IPC 16/ 9-GF-10,16	1702808	10

Ordering data

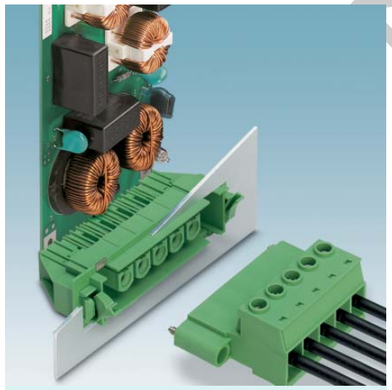
Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, color: Green, for 1.0 to 3.0 mm thick housing walls		
DFK-IPC 16/ 2-GU-10,16	1702497	10
DFK-IPC 16/ 3-GU-10,16	1702507	10
DFK-IPC 16/ 4-GU-10,16	1702510	10
DFK-IPC 16/ 5-GU-10,16	1702523	10
DFK-IPC 16/ 6-GU-10,16	1702536	10
DFK-IPC 16/ 7-GU-10,16	1702549	10
DFK-IPC 16/ 8-GU-10,16	1702552	10
DFK-IPC 16/ 9-GU-10,16	1702565	10

Ordering data

Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, color: Green, for 1.0 to 3.0 mm thick housing walls		
DFK-IPC 16/ 2-GFU-10,16	1702811	10
DFK-IPC 16/ 3-GFU-10,16	1702824	10
DFK-IPC 16/ 4-GFU-10,16	1702837	10
DFK-IPC 16/ 5-GFU-10,16	1702840	10
DFK-IPC 16/ 6-GFU-10,16	1702853	10
DFK-IPC 16/ 7-GFU-10,16	1702866	10
DFK-IPC 16/ 8-GFU-10,16	1702879	10
DFK-IPC 16/ 9-GFU-10,16	1702882	10

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Feed-through headers with pin/socket contact



- An inverted feed-through header to implement a touch-proof PCB output (in combination with IPC 16 ST)
- To solder onto the PCB
- In SH versions, shielding functions can be executed on the inside of the device as well.
- A snap-lock mechanism to be operated without tools or a classical screw connection
- Wall thicknesses from 1 mm to 3 mm
- Suitable for 600 V UL when used in combination with IPC 16 screw and spring-cage plugs

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

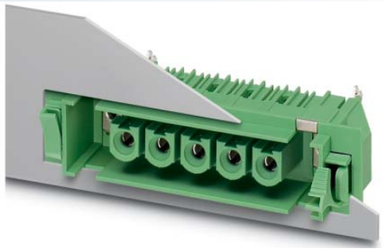
COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products**
or starting on page 488.

The cutout dimensions and mounting options for the feed-through versions can be found on page 595.

[1]) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

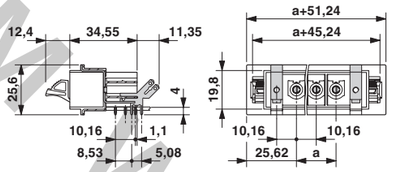
Accessories

For all types	Type	Page
	Keying profile **CP-PC RD** **Order No. 1701967**	38
	Keying pin **CS-IPC 16/6** **Order No. 1970016**	38
	Screws for mounting on the housing panel **DFK-PC 16-SS** **Order No. 1705449**	
	Marker strips **SK 5,0 WH:REEL** **Order No. 0805221**	801

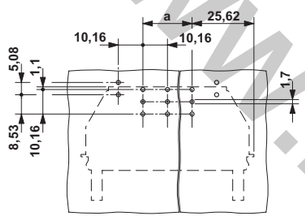


Horizontal, with threaded flange and shield feed-through on the inside of the device

Dimensional drawing



Drilling diagram

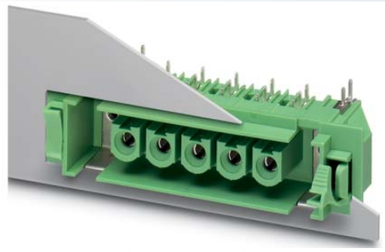


Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current	[A]	76[1])		
Rated insulation voltage for pollution degree 2	[V]	1000		
Pitch	[mm]	10.16		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	1000	1000	1000
Rated surge voltage	[kV]	8	8	6
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	300	600
Nominal current	[A]	66	66	5
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	1.7 / 0,8 x 1,2		

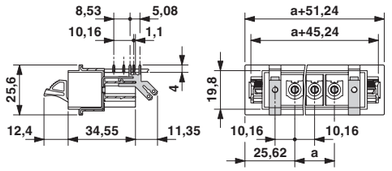
Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		10.16 mm pitch, color: Green, for 1.0 to 3.0 mm thick housing walls		
2	10.16	**DFK-IPC 16/ 2-GF-SH-10,16**	**1702976**	10
3	20.32	**DFK-IPC 16/ 3-GF-SH-10,16**	**1702989**	10
4	30.48	**DFK-IPC 16/ 4-GF-SH-10,16**	**1702992**	10
5	40.64	**DFK-IPC 16/ 5-GF-SH-10,16**	**1703001**	10
6	50.80	**DFK-IPC 16/ 6-GF-SH-10,16**	**1703014**	10
7	60.96	**DFK-IPC 16/ 7-GF-SH-10,16**	**1703027**	10
8	71.12	**DFK-IPC 16/ 8-GF-SH-10,16**	**1703030**	10
9	81.28	**DFK-IPC 16/ 9-GF-SH-10,16**	**1703043**	10

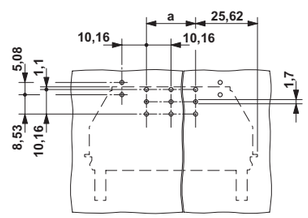


Horizontal, rotated 180°, with threaded flange, shield feed-through on the inside of the device

Dimensional drawing



Drilling diagram



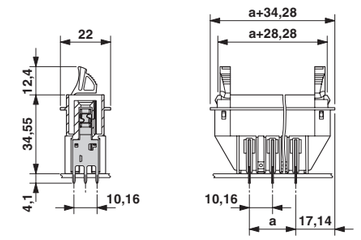
Ordering data

Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, color: Green, for 1.0 to 3.0 mm thick housing walls		
DFK-IPC 16/ 2-GFU-SH-10,16	**1702895**	10
DFK-IPC 16/ 3-GFU-SH-10,16	**1702905**	10
DFK-IPC 16/ 4-GFU-SH-10,16	**1702918**	10
DFK-IPC 16/ 5-GFU-SH-10,16	**1702921**	10
DFK-IPC 16/ 6-GFU-SH-10,16	**1702934**	10
DFK-IPC 16/ 7-GFU-SH-10,16	**1702947**	10
DFK-IPC 16/ 8-GFU-SH-10,16	**1702950**	10
DFK-IPC 16/ 9-GFU-SH-10,16	**1702963**	10

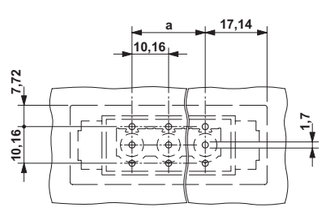


Vertical, without threaded flange

Dimensional drawing

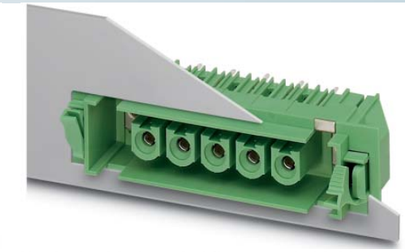


Drilling diagram



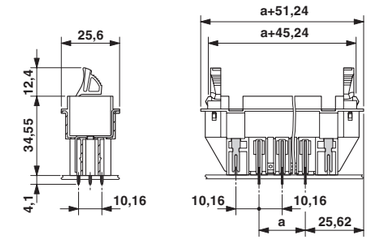
Ordering data

Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, color: Green, for 1.0 to 3.0 mm thick housing walls		
DFK-IPCV 16/ 2-G-10,16	**1703056**	10
DFK-IPCV 16/ 3-G-10,16	**1703069**	10
DFK-IPCV 16/ 4-G-10,16	**1703072**	10
DFK-IPCV 16/ 5-G-10,16	**1703085**	10
DFK-IPCV 16/ 6-G-10,16	**1703098**	10
DFK-IPCV 16/ 7-G-10,16	**1703108**	10
DFK-IPCV 16/ 8-G-10,16	**1703111**	10
DFK-IPCV 16/ 9-G-10,16	**1703124**	10

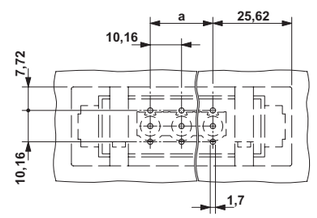


Vertical, with threaded flange and shield connection on the front of the device

Dimensional drawing



Drilling diagram

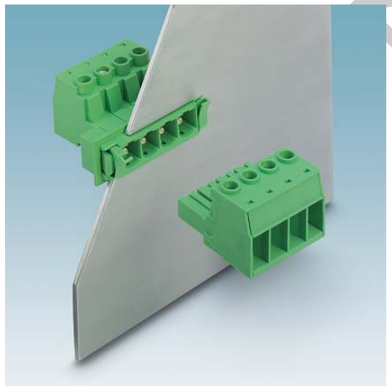


Ordering data

Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, color: Green, for 1.0 to 3.0 mm thick housing walls		
DFK-IPCV 16/ 2-GF-10,16	**1703218**	10
DFK-IPCV 16/ 3-GF-10,16	**1703221**	10
DFK-IPCV 16/ 4-GF-10,16	**1703234**	10
DFK-IPCV 16/ 5-GF-10,16	**1703247**	10
DFK-IPCV 16/ 6-GF-10,16	**1703250**	10
DFK-IPCV 16/ 7-GF-10,16	**1703263**	10
DFK-IPCV 16/ 8-GF-10,16	**1703276**	10
DFK-IPCV 16/ 9-GF-10,16	**1703289**	10

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Feed-through headers with pin/socket contact



- Feed-through headers for use in combination with PC 16 plugs
- A screw connection on the inside of the device
- Mounting on the housing wall using the snap-lock mechanism to be operated without tools or the classical screw connection
- Wall thicknesses from 1 mm to 3 mm
- In SH versions, shielding functions can be executed on the inside of the device as well.
- Suitable for 600 V UL when used in combination with PC 16 screw and spring-cage plugs

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products**
or starting on page 488.

When using ferrules for 16 mm² conductors, crimp with CRIMPFOX 16 S (see accessories).

The cutout dimensions and mounting options for the feed-through versions can be found on page 595.

[1]) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

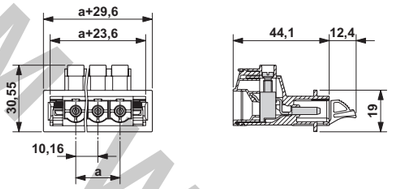
Accessories

For all types	Type	Page
	Keying profile **CP-PC RD** **Order No. 1701967**	38
	Screws for mounting on the housing panel **DFK-PC 16-SS** **Order No. 1705449**	
	Screwdriver **SZS 1,0 x 4,0** **Order No. 1205066**	
	Marker strips **SK 5,0 WH:REEL** **Order No. 0805221**	801
	Crimping pliers for 0.25 to 6 mm² **CRIMPFOX 6** **Order No. 1212034**	
	Crimping pliers for 10 to 16 mm² **CRIMPFOX 16 S** **Order No. 1207983**	



Without threaded flange, 600 V UL approval

Dimensional drawing



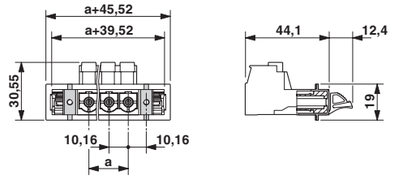
Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 16 mm²
Reduction factor = 0.8
Number of positions = see diagram



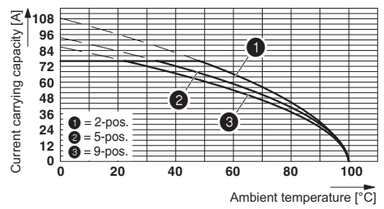
With threaded flange and shield connection on the front of the device, 600 V UL approval

Dimensional drawing



Representative derating curve

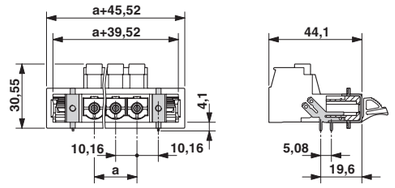
Type: PC 16/...-ST-10,16 with DFK-PC 16/...-ST-10,16





With threaded flange and shield feed-through on the inside of the device, 600 V UL approval

Dimensional drawing



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	76[1]) / 16		
Rated insulation voltage for pollution degree 2	[V]	1000		
Pitch	[mm]	10.16		
Connection capacity				
Solid & multi-strand / stranded	[mm²] / [mm²] / AWG	0.75 - 16 / 0.75 - 16 / 18 - 6		
Stranded with ferrules without plastic sleeve	[mm²]	0.5 - 16		
Stranded with ferrules with plastic sleeve	[mm²]	0.5 - 16		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid & multi-strand / stranded	[mm²]	0.75 - 6 / 0.75 - 6		
Stranded with ferrules without plastic sleeve	[mm²]	0.5 - 4		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 6		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	1000	1000	1000
Rated surge voltage	[kV]	8	8	6
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	600	600	-
Nominal current	[A]	55	55	-
Connection capacity AWG	AWG	20 - 6	20 - 6	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Stripping length	[mm]	12		
Screw thread		M4		
Tightening torque	[Nm]	1.7 - 1.8		
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		

Ordering data

No. of pos.	Dim. a [mm]
2	10.16
3	20.32
4	30.48
5	40.64
6	50.80
7	60.96
8	71.12
9	81.28

Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, color: Green, for 1.0 to 3.0 mm thick housing walls		
DFK-PC 16/ 2-ST-10,16	1703373	10
DFK-PC 16/ 3-ST-10,16	1703386	10
DFK-PC 16/ 4-ST-10,16	1703399	10
DFK-PC 16/ 5-ST-10,16	1703409	10
DFK-PC 16/ 6-ST-10,16	1703412	10
DFK-PC 16/ 7-ST-10,16	1703425	10
DFK-PC 16/ 8-ST-10,16	1703438	10
DFK-PC 16/ 9-ST-10,16	1703441	10

Ordering data

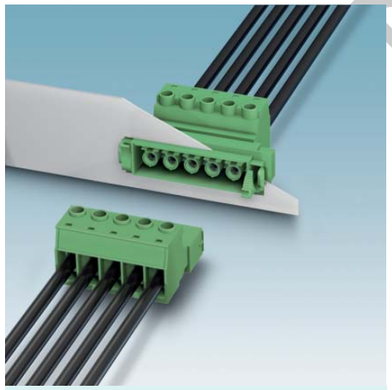
Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, color: Green, for 1.0 to 3.0 mm thick housing walls		
DFK-PC 16/ 2-STF-10,16	1703454	10
DFK-PC 16/ 3-STF-10,16	1703467	10
DFK-PC 16/ 4-STF-10,16	1703470	10
DFK-PC 16/ 5-STF-10,16	1703483	10
DFK-PC 16/ 6-STF-10,16	1703496	10
DFK-PC 16/ 7-STF-10,16	1703506	10
DFK-PC 16/ 8-STF-10,16	1703519	10
DFK-PC 16/ 9-STF-10,16	1703522	10

Ordering data

Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, color: Green, for 1.0 to 3.0 mm thick housing walls		
DFK-PC 16/ 2-STF-SH-10,16	1703616	10
DFK-PC 16/ 3-STF-SH-10,16	1703629	10
DFK-PC 16/ 4-STF-SH-10,16	1703632	10
DFK-PC 16/ 5-STF-SH-10,16	1703645	10
DFK-PC 16/ 6-STF-SH-10,16	1703658	10
DFK-PC 16/ 7-STF-SH-10,16	1703661	10
DFK-PC 16/ 8-STF-SH-10,16	1703674	10
DFK-PC 16/ 9-STF-SH-10,16	1703687	10

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Feed-through headers with pin/socket contact



- An inverted feed-through header for a touch-proof device output (in combination with IPC 16 ST)
- A screw connection on the inside of the device
- A snap-lock mechanism to be operated without tools or a classical screw connection
- Wall thicknesses from 1 mm to 3 mm
- In SH versions, shielding functions can be executed on the inside of the device as well.
- Suitable for 600 V UL when used in combination with IPC 16 screw and spring-cage plugs

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products**
or starting on page 488.

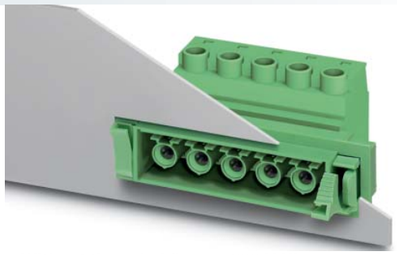
When using ferrules for 16 mm² conductors, crimp with CRIMPFOX 16 S (see accessories).

The cutout dimensions and mounting options for the feed-through versions can be found on page 595.

¹) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

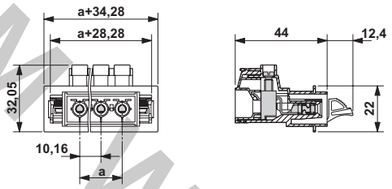
Accessories

For all types	Type	Page
	Keying profile **CP-PC RD** **Order No. 1701967**	38
	Screws for mounting on the housing panel **DFK-PC 16-SS** **Order No. 1705449**	
	Screwdriver **SZS 1,0 x 4,0** **Order No. 1205066**	
	Marker strips **SK 5,0 WH:REEL** **Order No. 0805221**	801
	Crimping pliers for 0.25 to 6 mm² **CRIMPFOX 6** **Order No. 1212034**	
	Crimping pliers for 10 to 16 mm² **CRIMPFOX 16 S** **Order No. 1207983**	



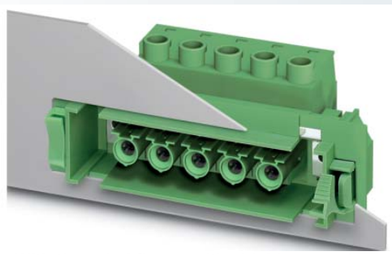
Without threaded flange, 600 V UL approval

Dimensional drawing



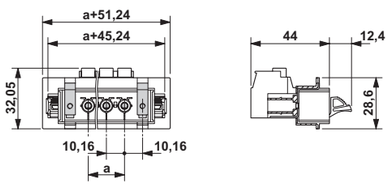
Note derating curves

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 16 mm²
Reduction factor = 0.8
Number of positions = see diagram



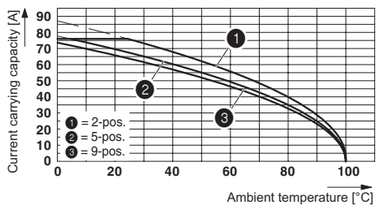
With threaded flange with shield connection on the front of the device, 600 V UL approval

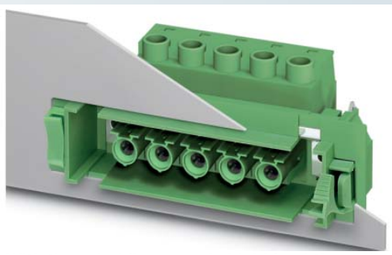
Dimensional drawing



Representative derating curve

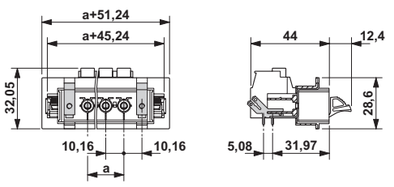
Type: IPC 16/...-ST-10,16 with DFK-IPC 16/...-ST-10,16





With threaded flange and shield feed-through on the inside of the device, 600 V UL approval

Dimensional drawing



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	76¹) / 16		
Rated insulation voltage for pollution degree 2	[V]	1000		
Pitch	[mm]	10.16		
Connection capacity				
Solid & multi-strand / stranded	[mm²] / [mm²] / AWG	0.75 - 16 / 0.75 - 16 / 18 - 6		
Stranded with ferrules without plastic sleeve	[mm²]	0.5 - 16		
Stranded with ferrules with plastic sleeve	[mm²]	0.5 - 16		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid & multi-strand / stranded	[mm²]	0.75 - 6 / 0.75 - 6		
Stranded with ferrules without plastic sleeve	[mm²]	0.5 - 4		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 6		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	1000	1000	1000
Rated surge voltage	[kV]	8	8	6
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	600	600	-
Nominal current	[A]	55	55	-
Connection capacity AWG	AWG	20 - 6	20 - 6	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Stripping length	[mm]	12		
Screw thread		M4		
Tightening torque	[Nm]	1.7 - 1.8		
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		

Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
		10.16 mm pitch, color: Green, for 1.0 to 3.0 mm thick housing walls		
2	10.16	**DFK-IPC 16/ 2-ST-10,16**	**1703690**	10
3	20.32	**DFK-IPC 16/ 3-ST-10,16**	**1703700**	10
4	30.48	**DFK-IPC 16/ 4-ST-10,16**	**1703713**	10
5	40.64	**DFK-IPC 16/ 5-ST-10,16**	**1703726**	10
6	50.80	**DFK-IPC 16/ 6-ST-10,16**	**1703739**	10
7	60.96	**DFK-IPC 16/ 7-ST-10,16**	**1703742**	10
8	71.12	**DFK-IPC 16/ 8-ST-10,16**	**1703755**	10
9	81.28	**DFK-IPC 16/ 9-ST-10,16**	**1703768**	10

Ordering data

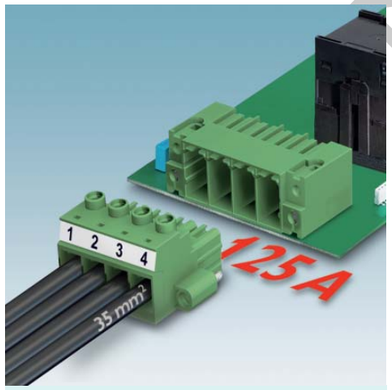
Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, color: Green, for 1.0 to 3.0 mm thick housing walls		
DFK-IPC 16/ 2-STF-10,16	**1703771**	10
DFK-IPC 16/ 3-STF-10,16	**1703784**	10
DFK-IPC 16/ 4-STF-10,16	**1703797**	10
DFK-IPC 16/ 5-STF-10,16	**1703807**	10
DFK-IPC 16/ 6-STF-10,16	**1703810**	10
DFK-IPC 16/ 7-STF-10,16	**1703823**	10
DFK-IPC 16/ 8-STF-10,16	**1703836**	10
DFK-IPC 16/ 9-STF-10,16	**1703849**	10

Ordering data

Type	Order No.	Pcs. / Pkt.
10.16 mm pitch, color: Green, for 1.0 to 3.0 mm thick housing walls		
DFK-IPC 16/ 2-STF-SH-10,16	**1703933**	10
DFK-IPC 16/ 3-STF-SH-10,16	**1703946**	10
DFK-IPC 16/ 4-STF-SH-10,16	**1703959**	10
DFK-IPC 16/ 5-STF-SH-10,16	**1703962**	10
DFK-IPC 16/ 6-STF-SH-10,16	**1703975**	10
DFK-IPC 16/ 7-STF-SH-10,16	**1703988**	10
DFK-IPC 16/ 8-STF-SH-10,16	**1703991**	10
DFK-IPC 16/ 9-STF-SH-10,16	**1704000**	10

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Connector with a screw connection



- High-capacity plugs with a current carrying capacity of up to 125 A and a connection capacity of 35 mm², solid
- Unrestricted 600-V-UL approval
- Maximum contact safety thanks to an integrated double steel spring
- Standard with screw flange for secure connection even in applications with high levels of vibration
- Low insertion and withdrawal forces for convenient device connection
- Compatible with PC 35 HC/…-GF-15,0 base strip and IPC 35 HC/....-STGF-15,0 plug component

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products**
or starting on page 485.

[1]) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

[2]) Up to 16 mm² = 2.5 Nm
25 mm² = 3.5 Nm
35 mm² = 4.5 Nm



With screw flange, 600 V UL approval



With screw flange and shield, 600 V UL approval

Accessories

For all types	Type	Page
	Marker strips **SK 10,0 WH:REEL** **Order No.** **0812188**	801
	Screwdriver **SZS 1,0 x 6,5** **Order No.** **1205079**	
	Keying profile **CP-HC** **Order No.** **1686478**	38

Dimensional drawing

Note derating curves

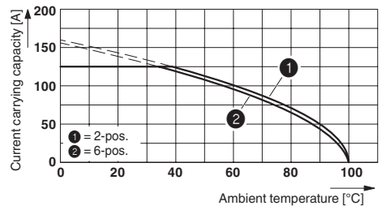
Derating curves, determined in accordance with DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 35 mm2
Reduction factor = 0.8
Number of positions = see diagram

Dimensional drawing



Representative derating curve

Type: PC 35 HC/...-STF-15,00 with PC 35 HC/...-GF-15,00



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	125[1]) / 35		
Rated insulation voltage for pollution degree 2	[V]	1000		
Pitch	[mm]	15		
Connection capacity				
Solid & multi-strand / stranded	[mm²] / [mm²] / AWG	0.5 - 35 / 0.5 - 35 / 20 - 2		
Stranded with ferrules without plastic sleeve	[mm²]	1 - 35		
Stranded with ferrules with plastic sleeve	[mm²]	1.5 - 35		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid & multi-strand / stranded	[mm²]	0.5 - 6 / 0.5 - 6		
Stranded with ferrules without plastic sleeve	[mm²]	0.5 - 4		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 6		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	1000	1000	1000
Rated surge voltage	[kV]	8	8	6
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	600	600	-
Nominal current	[A]	115	115	-
Connection capacity AWG	AWG	16 - 2	16 - 2	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Stripping length	[mm]	20		
Screw thread		M5		
Tightening torque	[Nm]	2.5 - 4.5[2])		
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		

No. of pos.	Dim. a [mm]
2	15.00
3	30.00
4	45.00
5	60.00
6	75.00

Ordering data

Type	Order No.	Pcs. / Pkt.
PC 35 HC/ 2-STF-15,00	**1762592**	25
PC 35 HC/ 3-STF-15,00	**1762602**	25
PC 35 HC/ 4-STF-15,00	**1762615**	25
PC 35 HC/ 5-STF-15,00	**1762628**	10
PC 35 HC/ 6-STF-15,00	**1762631**	10

Ordering data

Type	Order No.	Pcs. / Pkt.
PC 35 HC/ 4-STF-SH-15,00	**1762848**	10

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Connector with a screw connection



- Inverted high-performance connector components with male contact for touch-proof device outputs or free hanging cable-cable connections
- Unrestricted 600-V-UL approval
- Maximum contact safety thanks to an integrated double steel spring
- Standard with screw flange for secure connection even in applications with high levels of vibration
- Low insertion and withdrawal forces for convenient device connection
- Compatible with IPC 35 header HC/…-GF-15,0 and with connector component PC 35 HC/...-STF-15,0

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products**
or starting on page 485.

[1]) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

[2]) Up to 16 mm² = 2.5 Nm
25 mm² = 3.5 Nm
35 mm² = 4.5 Nm



With screw flange, 600 V UL approval



With threaded flange, 600 V UL approval



With screw flange and shield, 600 V UL approval



With threaded flange and shield, 600 V UL approval

Accessories

For all types	Type	Page
	Marker strips **SK 10,0 WH:REEL** **Order No.** **0812188**	801
	Screwdriver **SZS 1,0 x 6,5** **Order No.** **1205079**	
	Keying profile **CP-HC** **Order No.** **1686478**	38
	Screws for mounting on the housing panel DFK-PC 35-SS **Order No.** **1700368**	

Dimensional drawing

Note derating curves

Derating curves, determined in accordance with DIN EN 61984 (VDE 0627):2002-09
Representation based on DIN EN 60512-5-2:2003-01
Connected conductor cross section = 35 mm2
Reduction factor = 0.8
Number of positions = see diagram

Dimensional drawing

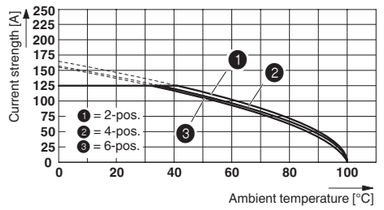


Dimensional drawing

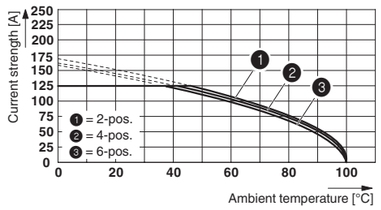
Dimensional drawing

Representative derating curves of the above-mentioned plugs

Type: IPC 35 HC/...-STF-15,0 with IPC 35 HC/...-GF-15,0



Type: PC 35 HC/..-STF-15,0 with IPC 35 HC/..-STGF-15,0



Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current / conductor cross section	[A] / [mm²]	125[1]) / 35		
Rated insulation voltage for pollution degree 2	[V]	1000		
Pitch	[mm]	15		
Connection capacity				
Solid & multi-strand / stranded	[mm²] / [mm²] / AWG	0.5 - 35 / 0.5 - 35 / 20 - 2		
Stranded with ferrules without plastic sleeve	[mm²]	1 - 35		
Stranded with ferrules with plastic sleeve	[mm²]	1.5 - 35		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid & multi-strand / stranded	[mm²]	0.5 - 6 / 0.5 - 6		
Stranded with ferrules without plastic sleeve	[mm²]	0.5 - 4		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 6		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	1000	1000	1000
Rated surge voltage	[kV]	8	8	8
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	600	600	-
Nominal current	[A]	115	115	-
Connection capacity AWG	AWG	16 - 2	16 - 2	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Stripping length	[mm]	20		
Screw thread		M5		
Tightening torque	[Nm]	2.5 - 4.5[2])		
Type of insulation material / insulation material group		PA / I		
Inflammability class according to UL 94		V0		

Ordering data

No. of pos.	Dim. a [mm]
2	15.00
3	30.00
4	45.00
5	60.00
6	75.00

Ordering data

Type	Order No.	Pcs. / Pkt.
IPC 35 HC/ 2-STF-15,00	**1784790**	25
IPC 35 HC/ 3-STF-15,00	**1784800**	25
IPC 35 HC/ 4-STF-15,00	**1784813**	25
IPC 35 HC/ 5-STF-15,00	**1784826**	10
IPC 35 HC/ 6-STF-15,00	**1784839**	10

Ordering data

Type	Order No.	Pcs. / Pkt.
IPC 35 HC/ 2-STGF-15,00	**1784855**	25
IPC 35 HC/ 3-STGF-15,00	**1784868**	25
IPC 35 HC/ 4-STGF-15,00	**1784871**	25
IPC 35 HC/ 5-STGF-15,00	**1784884**	10
IPC 35 HC/ 6-STGF-15,00	**1784897**	10

Ordering data

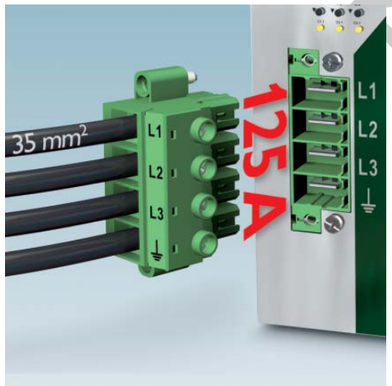
Type	Order No.	Pcs. / Pkt.
IPC 35 HC/ 4-STF-SH-15,00	**1784842**	10

Ordering data

Type	Order No.	Pcs. / Pkt.
IPC 35 HC/ 4-STGF-SH-15,00	**1784907**	10

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Headers with pin contact



- PC 35 HC headers for use in combination with PC 35 plugs and IPC 35 headers
- Horizontal (0° to the PCB) and vertical (90° to the PCB) versions are available
- Integrated double flange for fastening with PC 35 connector and housing panel
- Integrated threaded flange for screwing to the PCB

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products** or starting on page 485.

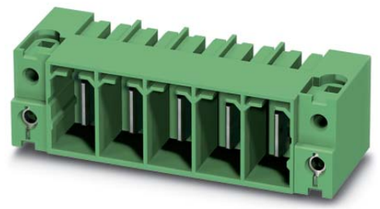
The cutout dimensions for the feed-through versions can be found on page 595.

Header can be screwed to the PCB using DFK-PC 35-SS, Order No. 1700368. Screw connection only permitted prior to soldering.

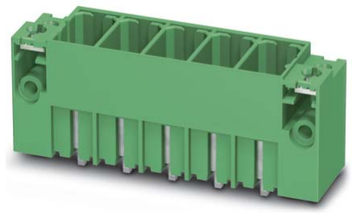
1) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

Accessories

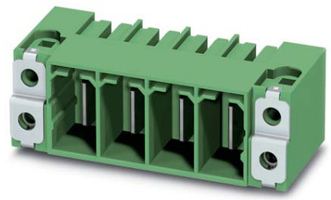
For all types	Type	Page
	Marker strips **SK 10,0 WH:REEL** **Order No. 0812188**	801
	Keying profile **CP-HC** **Order No. 1686478**	38
	Screws for mounting on the housing panel DFK-PC 35-SS **Order No. 1700368**	



Horizontal, 600 V UL approval

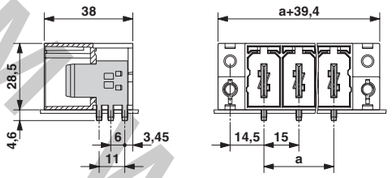


Vertical, 600 V UL approval

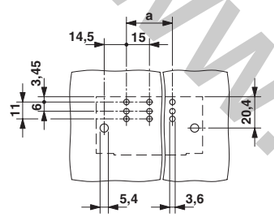


Horizontal, with shield connection, 600 V UL approval

Dimensional drawing



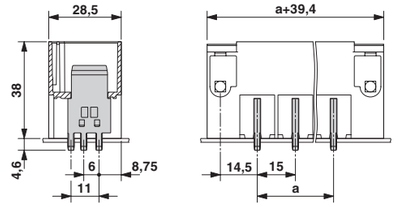
Drawing diagram



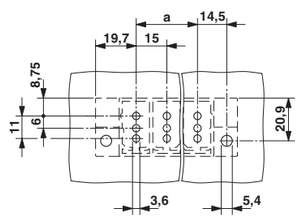
Ordering data

No. of pos.	Dim. a [mm]	Type	Order No.	Pcs. / Pkt.
2	15.00	**PC 35 HC/ 2-GF-15,00**	**1762741**	25
3	30.00	**PC 35 HC/ 3-GF-15,00**	**1762754**	25
4	45.00	**PC 35 HC/ 4-GF-15,00**	**1762767**	25
5	60.00	**PC 35 HC/ 5-GF-15,00**	**1762770**	10
6	75.00	**PC 35 HC/ 6-GF-15,00**	**1762783**	10

Dimensional drawing



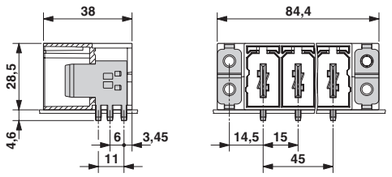
Drawing diagram



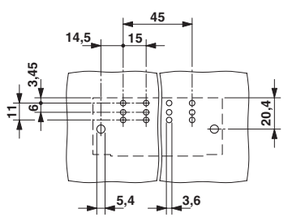
Ordering data

Type	Order No.	Pcs. / Pkt.
PCV 35 HC/ 2-GF-15,00	**1762796**	25
PCV 35 HC/ 3-GF-15,00	**1762806**	25
PCV 35 HC/ 4-GF-15,00	**1762819**	25
PCV 35 HC/ 5-GF-15,00	**1762822**	10
PCV 35 HC/ 6-GF-15,00	**1762835**	10

Dimensional drawing



Drawing diagram



Ordering data

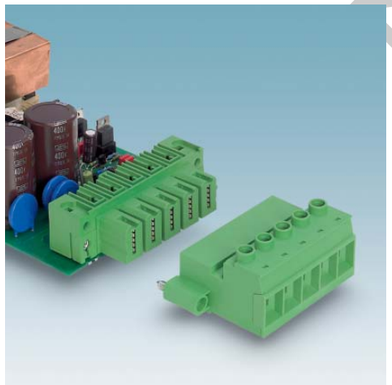
Type	Order No.	Pcs. / Pkt.
PC 35 HC/ 4-GF-SH-15,00	**1762851**	25

Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current	[A]	125¹)		
Rated insulation voltage for pollution degree 2	[V]	1000		
Pitch	[mm]	15		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	1000	1000	1000
Rated surge voltage	[kV]	8	8	8
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	600	600	-
Nominal current	[A]	115	115	-
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		PBT / IIIa		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	3.6 / 2,4 x 2,5 mm		

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Headers with socket contact



- Inverted IPC 35 HC headers for implementing a touch-proof PCB output (in combination with IPC 35 HC plugs) or a PCB/PCB connection (in combination with PC 35 headers)
- Horizontal (0° to the PCB) and vertical (90° to the PCB) versions are available
- DFK versions for fixing in the housing panel
- Integrated threaded flange for screwing to the PCB

Notes:

In accordance with DIN EN 61984, COMBICON connectors have no switching power. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products**
or starting on page 485.

The cutout dimensions for the feed-through versions can be found on page 595.

The header can be screwed to the PCB with DFK-IPC 35-SS Order No. 1703166. Screw connection only permitted prior to soldering.

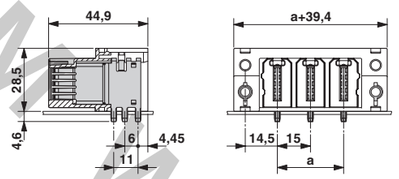
Accessories

For all types	Type	Page
	Marker strips **SK 10,0 WH:REEL** **Order No.** **0812188**	801
	Keying profile **CP-HC** **Order No.** **1686478**	38
	Screws for mounting on the housing panel **DFK-IPC 35-SS** **Order No.** **1703166**	

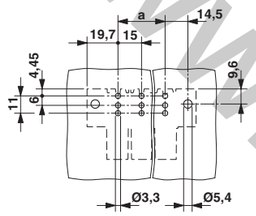


Horizontal, 600 V UL approval

Dimensional drawing



Drilling diagram



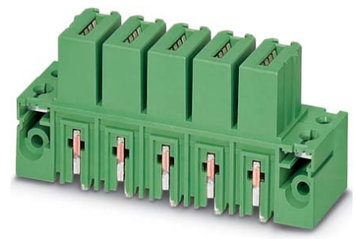
Technical data

Technical data in accordance to IEC / DIN VDE				
Rated current	[A]	125		
Rated insulation voltage for pollution degree 2	[V]	1000		
Pitch	[mm]	15		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	1000	1000	1000
Rated surge voltage	[kV]	8	8	8
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	600	600	-
Nominal current	[A]	115	115	-
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Type of insulation material / insulation material group		PBT / IIIa		
Inflammability class according to UL 94		V0		
Drill hole diameter / pin dimensions	[mm]	3.6 / 2,4 x 2,5 mm		

No. of pos.	Dim. a [mm]
2	15.00
3	30.00
4	45.00
5	60.00
6	75.00

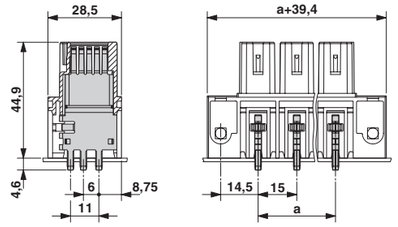
Ordering data

Type	Order No.	Pcs. / Pkt.
IPC 35 HC/ 2-GF-15,00	**1784910**	25
IPC 35 HC/ 3-GF-15,00	**1784923**	25
IPC 35 HC/ 4-GF-15,00	**1784936**	25
IPC 35 HC/ 5-GF-15,00	**1784949**	10
IPC 35 HC/ 6-GF-15,00	**1784952**	10

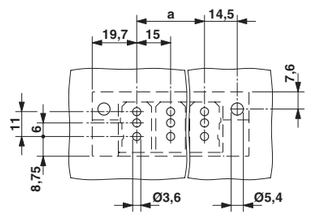


Vertical, 600 V UL approval

Dimensional drawing

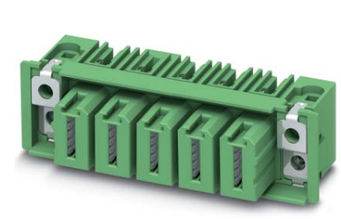


Drilling diagram



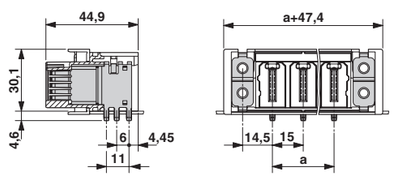
Ordering data

Type	Order No.	Pcs. / Pkt.
IPCV 35 HC/ 2-GF-15,00	**1793558**	25
IPCV 35 HC/ 3-GF-15,00	**1793561**	25
IPCV 35 HC/ 4-GF-15,00	**1793574**	25
IPCV 35 HC/ 5-GF-15,00	**1793587**	10
IPCV 35 HC/ 6-GF-15,00	**1793590**	10

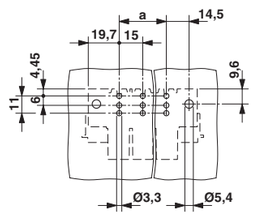


Horizontal, for fixing in the housing panel with shield connection, 600 V UL approval

Dimensional drawing

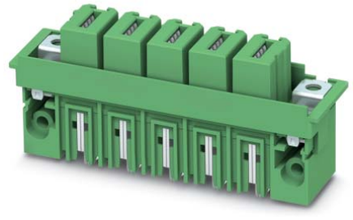


Drilling diagram



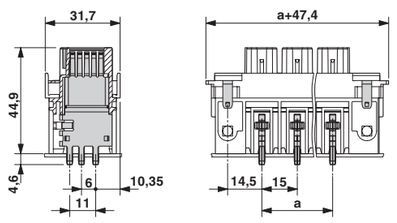
Ordering data

Type	Order No.	Pcs. / Pkt.
DFK-IPC 35 HC/ 2-GF-15,00	**1784965**	25
DFK-IPC 35 HC/ 3-GF-15,00	**1784978**	25
DFK-IPC 35 HC/ 4-GF-15,00	**1784981**	25
DFK-IPC 35 HC/ 5-GF-15,00	**1784994**	10
DFK-IPC 35 HC/ 6-GF-15,00	**1785003**	10

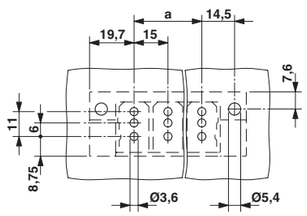


Vertical, for fixing in the housing panel with shield connection, 600 V UL approval

Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
DFK-IPCV 35 HC/ 2-GF-15,00	**1793600**	25
DFK-IPCV 35 HC/ 3-GF-15,00	**1793613**	25
DFK-IPCV 35 HC/ 4-GF-15,00	**1793626**	25
DFK-IPCV 35 HC/ 5-GF-15,00	**1793639**	10
DFK-IPCV 35 HC/ 6-GF-15,00	**1793642**	10

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Routing cables through panels

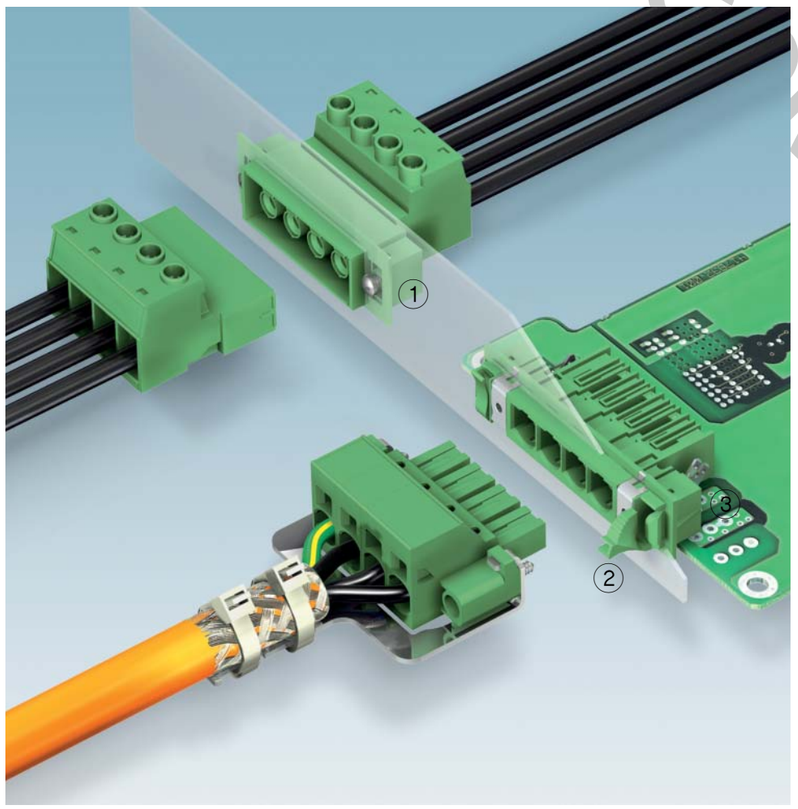
COMBICON power feed-through plug-in connectors enable you to route a conductor through device housing efficiently and without any gaps. PC 5 and PC 16 series feed-through plug-in connectors and headers are inserted in the housing opening and secured with the quick snap-lock mechanism ② without using any additional tools.

As an alternative to the snap-lock mechanism, each plug-in connector also has screw fixings ① for the housing panel. The corresponding screws can be ordered using Order No. 1705449.

In addition to solder-in versions, the version with a screw connection inside the device is a particularly easy-maintenance and fast alternative. Cable/cable connections can therefore be used in devices with a conductor cross section of up to 16 mm² and currents of up to 76 A.

The inverted design, which supports practical connection options, completes the range of feed-through plug-in connectors. In this way, a live device output, for example, can be designed very easily with shock protection.

DFK plug-in connectors in STF/STF-SH versions ③ also offer the option of routing shielding functions to or through the housing panel.





① Screw fixing



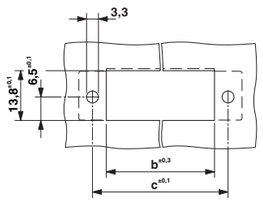
② Snap-lock mechanism



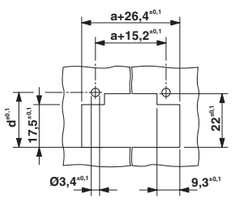
③ Shield routed through with the STF-SH version

Sheet metal cutouts for DFK-PC 4

DFK-PC 4/...G-7,62-FS4,8

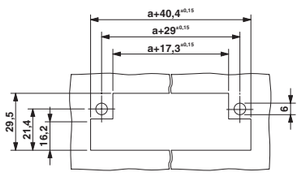


DFK-PC 4/...-GF-7,62



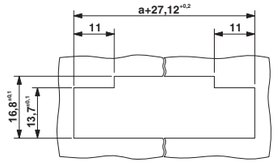
Sheet metal cutouts for PC 35

PC 35 HC/....-GF-15

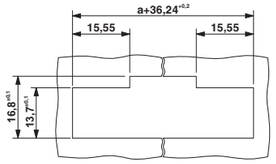


Sheet metal cutouts for DFK-PC(V) 5/...G

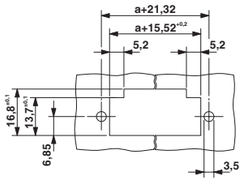
For G and GU versions

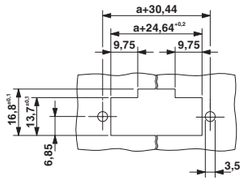


For GF (-SH) and GFU (-SH) versions



For snap-lock mechanism

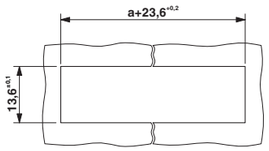




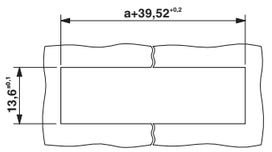
For screw fixing

Sheet metal cutouts for DFK-PC(V) 16

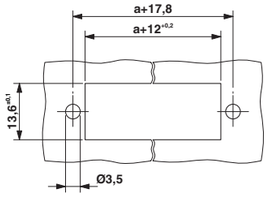
For ST, G, and GU versions

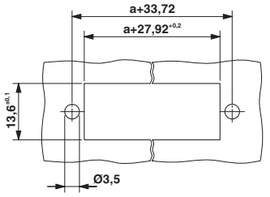


For STF (-SH), GF (-SH), and GFU (-SH) versions



For snap-lock mechanism

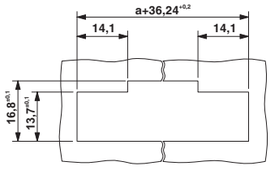




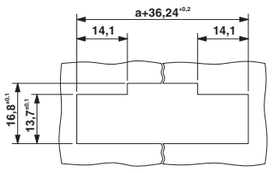
For screw fixing

Sheet metal cutouts for DFK-PC 5/...ST

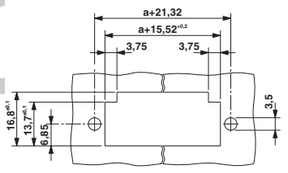
For ST versions

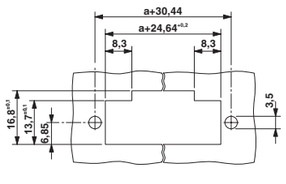


For STF (-SH) versions



For snap-lock mechanism

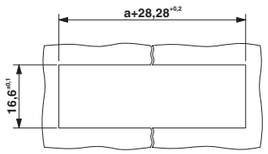




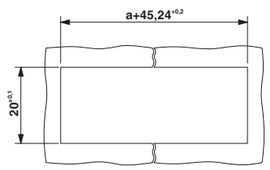
For screw fixing

Sheet metal cutouts for DFK-IPC(V) 16

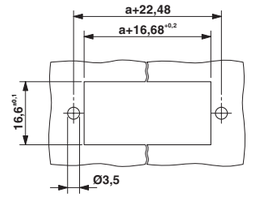
For ST, G, and GU versions

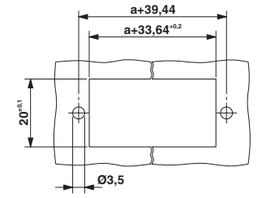


For STF (-SH), GF (-SH), and GFU (-SH) versions



For snap-lock mechanism

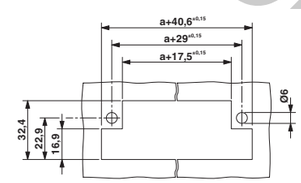




For screw fixing

Sheet metal cutouts for IPC 35

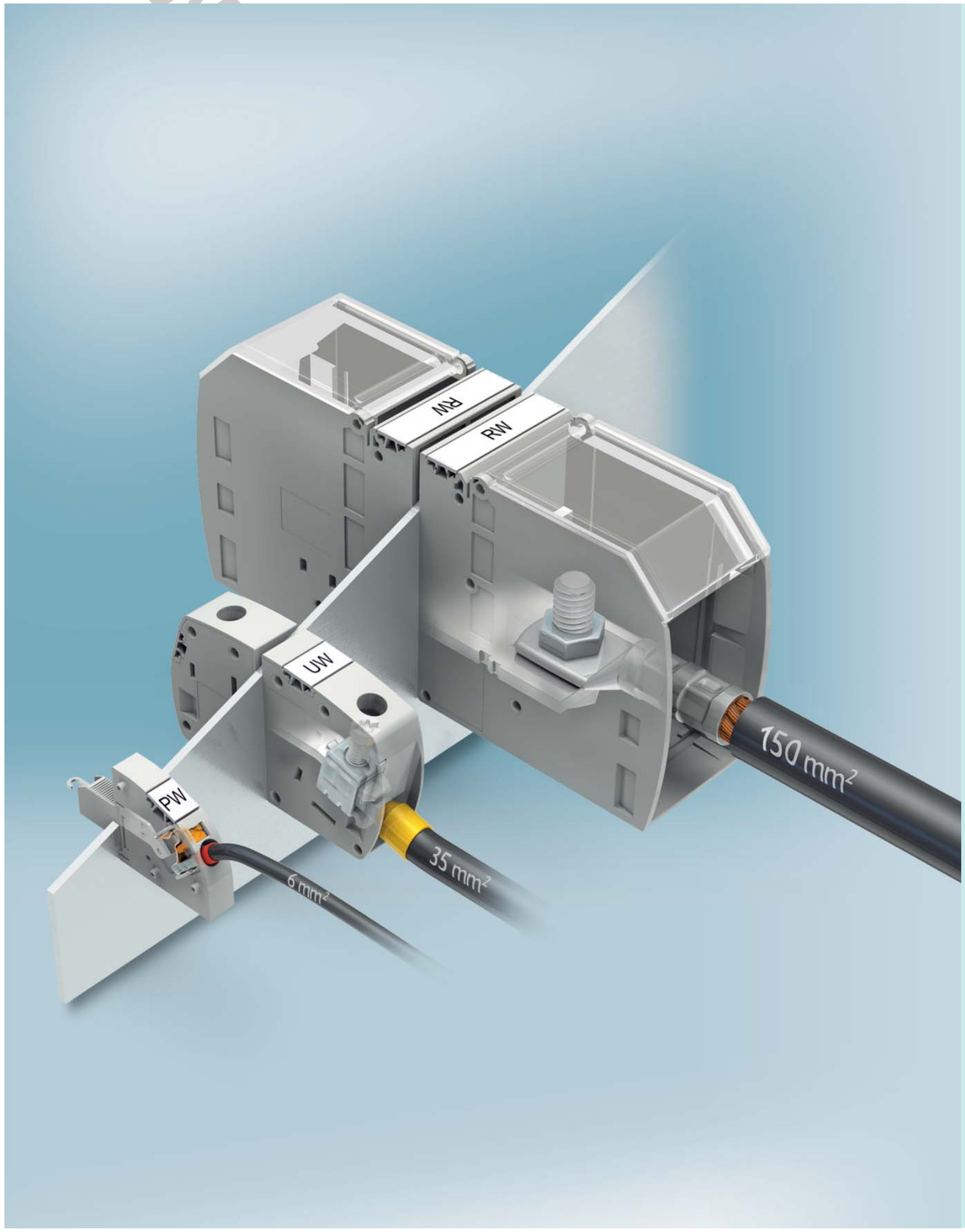
DFK-IPCV 35 HC/....-GF-15



Dimensions table

Number of positions	DFK-PC 5	DFK-(I)PC 16	PC 35 HC/...-GF-15	DFK-IPC 35	DFK-PC 4/...FS4,8		DFK-PC 4/...GF		DFK-PC 4/...GF	
	Dimension "a"	Dimension "a"	Dimension "a"	Dimension "a"	Dimension "b"	Dimension "c"	Dimension "b"	Dimension "c"		
2	7.62	10.16	15.00	15.00	15.19	22.86	22.9	34.1		
3	15.24	20.32	30.00	30.00	22.81	30.48	30.5	41.7		
4	22.86	30.48	45.00	45.00	30.43	38.10	38.1	49.3		
5	30.48	40.64	60.00	60.00	38.05	45.72	45.7	56.9		
6	38.10	50.80	75.00	75.00	45.67	53.34	53.3	64.6		
7	45.72	60.69			53.29	60.96	61.0	72.2		
8	53.34	71.12			60.91	68.58	68.6	79.8	1	21.4
9	60.96	81.28			68.53	76.20	76.2	87.4	2	21.9
10	68.58				76.15	83.82	83.8	95.0	3	22.5
11	76.20				83.77	91.44	91.4	102.7	4	23.1
12	83.82				91.39	99.06	99.1	110.3	5	23.7

Possible panel thickness of 1.0 - 3.0 mm for DFK-PC 5, DFK-(I)PC 16
Possible panel thickness of 1.0 - 5.0 mm for DFK-PC 4
Possible panel thickness of 1.0 - 3.0 mm for PC 35, DFK-IPC 35



Feed-through terminal blocks for high-current applications

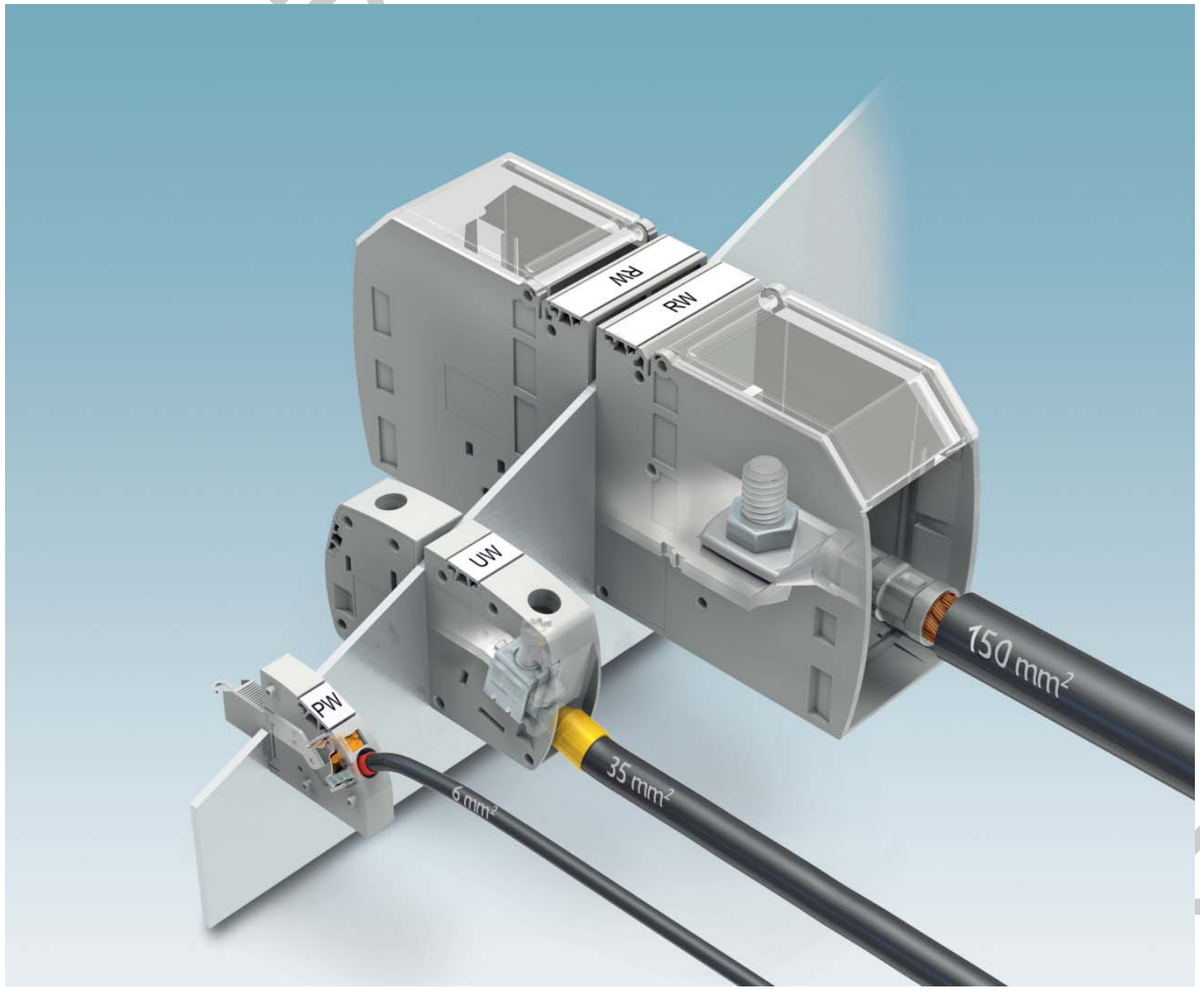
With the feed-through terminal blocks, you can freely select the connection technology. Choose between traditional screw connection, robust bolt connection, and convenient push-in connection - whichever best suits your application. The portfolio includes terminal blocks in the connection range from 0.2 to 150 mm² with a current carrying capacity of up to 309 A. Furthermore, the terminal blocks have unlimited UL approval up to 600 V UL, and up to 1000 V according to IEC.

The feed-through terminal blocks are available in standard or molded design, each with horizontal or vertical connection direction. The different connection directions mean that the product range is able to offer a space-saving connection for all installation locations.

The feed-through terminal blocks are available in single-position design with or without engagement pin on the outer panel. The engagement pin enables the terminal blocks to be snapped together side-by-side in the required number of positions. For neat termination or as single terminal blocks, the terminal blocks are used without the engagement pin.

The feed-through terminal blocks offer users the complete range of wiring "through the panel". The terminal blocks consist of an internal and external element. These pass through the housing panel and snap together easily without the need for tools. The precise engagement mechanism ensures a tight fit, however thick the panel. For high mechanical strain, maximum mechanical stability can be achieved with the option of using screws, rivets, and flange.

Product range overview	**598**
(Molded) feed-through terminal blocks with angled push-in spring connection, PW series	**601**
Inside with solder or spade connection up to 41 A/6 mm²	**601**
Inside with cable lug connection up to 76 A/16 mm²	**603**
Feed-through terminal blocks with horizontal push-lock spring connection, PLW series	**605**
Inside with angled push-in connection up to 41 A/6 mm², outside 16 mm²	**605**
(Molded) feed-through terminal blocks with horizontal, vertical screw connection, UW/HDFK series	**607**
Inside with screw, solder or spade connection up to 41 A/6 mm²	**607**
Inside with screw, solder connection up to 76 A/16 mm²	**610**
Inside with screw, cable lug connection up to 101 A/25 mm²	**612**
Inside with screw, cable lug connection up to 125 A/35 mm²	**614**
Inside with screw, cable lug connection up to 150 A/50 mm²	**619**
Inside with screw, cable lug connection up to 232 A/95 mm²	**620**
Vertical double connection outside up to 152 A/35 mm²	**623**
(Molded) feed-through terminal blocks with horizontal, vertical bolt connection, RW series	**624**
With captive cover nut up to 76 A/16 mm²	**624**
With captive cover nut up to 125 A/35 mm²	**626**
In open housing up to 76 A/16 mm²	**628**
In open housing up to 125 A/35 mm²	**630**
With transparent cover up to 76 A/16 mm²	**632**
With transparent cover up to 125 A/35 mm²	**634**
In open housing up to 309 A/150 mm²	**636**
Special designs, feed-through terminal blocks with screw connection	**639**
DFK 4 with screw connection	**639**
DFK 5-9,5 with screw connection	**641**
VDFK with screw connection for molding	**643**





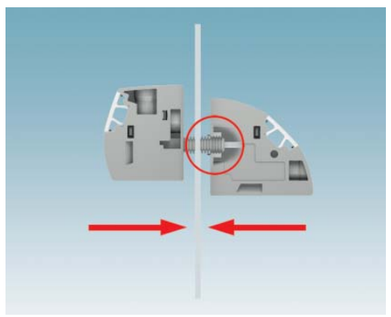
Panels pose no obstacle

Featuring a compact design, the high-current feed-through terminal blocks give you freedom of choice where connection technology is concerned.



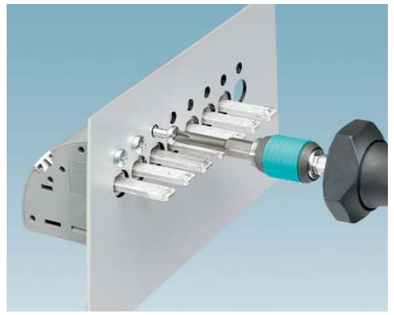
Can be used in any application up to UL 600 V

The product range was specifically developed for devices and applications at the upper end of the power range. Their performance features allow them to be used anywhere in the world.



Easy mounting

The terminal blocks consist of an internal and external element. These pass through the housing panel and snap together easily without the need for tools. The precise engagement mechanism ensures a tight fit, however thick the panel.



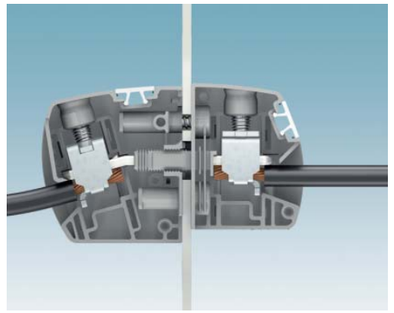
Alternative fixing options for higher levels of mechanical strain are provided by ... screws,



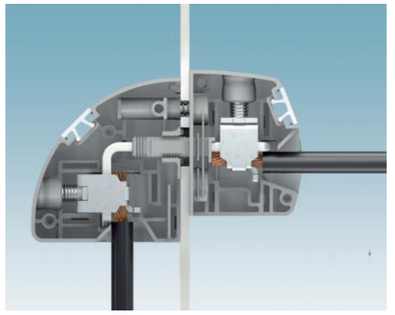
... rivet,



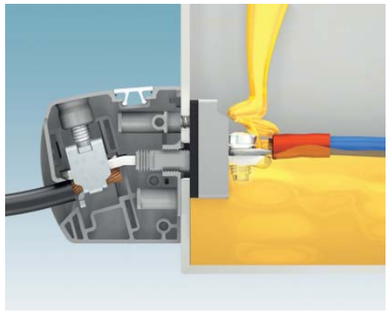
... flange.



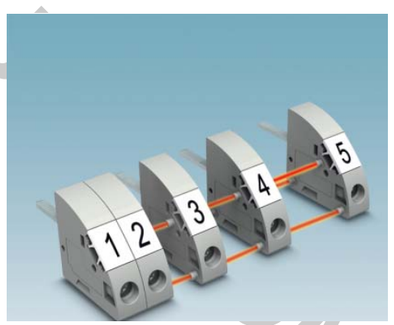
For effective and space-saving conductor routing, whatever the mounting position, high-current feed-through terminal blocks with horizontal and ...



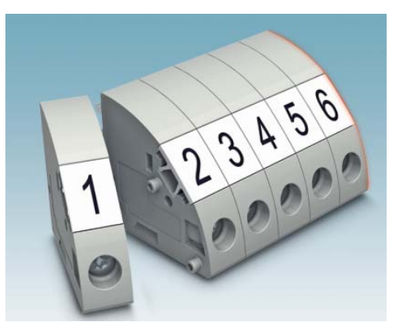
... vertical conductor routing are available.



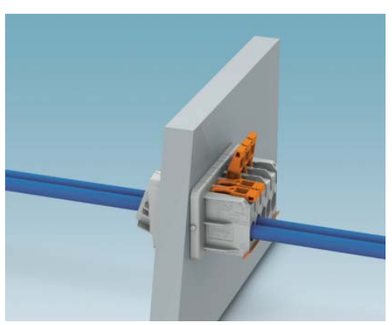
The molded versions have been designed specifically to meet the requirements associated with molded devices. They ensure maximum tightness of seal, even with low-viscosity sealing compounds.



The various engagement pin versions can be used to create pre-assembled blocks and speed up mounting.



The universal marking groove, an integral part of the housing design, enables clear marking of the device connection.



The new PLW series panel feed-through terminal blocks for tool-free operation speed up conductor feed-through with lever technology outside the device and push-in connection technology inside the device; see page 605.

Inside with solder or spade connection up to 41 A/6 mm²



- User-friendly Push-in connection
- Tool-free wiring of conductors with ferrules or solid conductors
- The integrated latch allows you to release connected conductors with any type of tool
- Molded versions ensure maximum tightness of seal
- Easy grouping with engagement pin versions
- Both terminal halves can be easily assembled by simply snapping them together
- Automatic panel thickness compensation
- Flange plates for alternative mounting from the outside of the device

Notes:

Inside = left side of portrait photos
Outside = right side of portrait photos

Corresponding screws for fixing the feed-through terminal blocks are supplied as standard.

Accessories

For all types	Type	
	Screwdriver **SZF 1-0,6 x 3,5** **Order No.** **1204517**	
For PW 4.../S		
	Flange plate **PW 4-F** **Order No.** **3000403**	

Technical data

		PW 4-POT-SCM			PW 4-POT-SL		
Technical data in accordance to IEC / DIN VDE							
Current/conductor cross section	[A] / [mm²]	18 / 4 // 18 / 4			32 / 4 // 32 / 4		
Rated voltage	[V]	800			800		
Connection capacity							
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 4 / 0.2 - 6 / 24 - 12			0.2 - 4 / 0.2 - 6 / 24 - 12		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 6			0.25 - 6		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 4			0.25 - 4		
Insulation coordination							
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	800	1000	1000	800	1000	1000
Rated surge voltage	[kV]	8	8	8	8	8	8
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	300	300	600	300	300	600
Nominal current	[A]	30	30	5	30	30	5
Connection capacity AWG	AWG	24 - 10	24 - 10	24 - 10	24 - 10	24 - 10	24 - 10
Approval data (CSA)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-
General data							
Stripping length	[mm]	10			10		
Insulation material		PA			PA		
Inflammability class according to UL 94		V0			V0		
Panel thickness	[mm]	1 - 4			1 - 4		

Feed-through terminal blocks for high-current applications

(Molded) feed-through terminal blocks with angled push-in spring connection, PW series

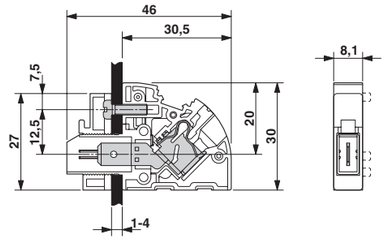


Internal part with spade connection



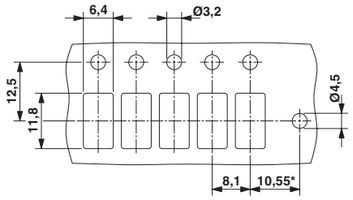
Internal part with solder connection

Dimensional drawing

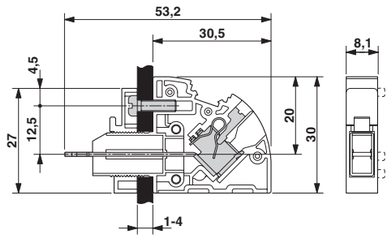


Drilling diagram

*Only when using the PW 4-F flange plate

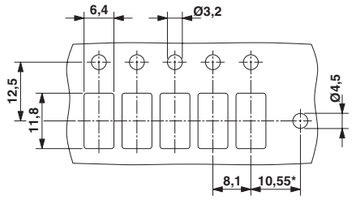


Dimensional drawing



Drilling diagram

*Only when using the PW 4-F flange plate



Description

Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
PW 4-POT-SCM	**3056938**	50
Feed-through terminal block, with engagement pin		
PW 4-POT-SCM/S	**3056941**	50

ZB 8.../ZBF 8... marking material (see Catalog 5)

TMT (EX9,5)R marking material (see online catalog)

Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
PW 4-POT-SL	**3059731**	50
Feed-through terminal block, with engagement pin		
PW 4-POT-SL/S	**3059744**	50

ZB 8.../ZBF 8... marking material (see Catalog 5)

TMT (EX9,5)R marking material (see online catalog)

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Inside with solder or spade connection up to 41 A/6 mm²



- User-friendly Push-in connection
- Tool-free wiring of conductors with ferrules or solid conductors
- Molded versions ensure maximum tightness of seal

- Easy grouping with engagement pin versions
- Both terminal halves can be easily assembled by simply snapping them together
- Automatic panel thickness compensation
- Flange plates for alternative mounting from the outside of the device

Notes:

Inside = left side of portrait photos
Outside = right side of portrait photos

Corresponding screws for fixing the feed-through terminal blocks are supplied as standard.

Accessories

For all types	Type	
	Screwdriver **SZF 1-0,6 x 3,5** **Order No.** **1204517**	
For PW 4.../S		
	Flange plate **PW 4-F** **Order No.** **3000403**	

Technical data

		PWO 4-POT-SCM			PWO 4-POT-SL		
Technical data in accordance to IEC / DIN VDE							
Current/conductor cross section	[A] / [mm²]	18 / 4 // 18 / 4			32 / 4 // 32 / 4		
Rated voltage	[V]	800			800		
Connection capacity							
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 4 / 0.2 - 6 / 24 - 12			0.2 - 4 / 0.2 - 6 / 24 - 12		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 6			0.25 - 6		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 4			0.25 - 4		
Insulation coordination							
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	800	1000	1000	800	1000	1000
Rated surge voltage	[kV]	8	8	8	8	8	8
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	300	300	600	300	300	600
Nominal current	[A]	30	30	5	30	30	5
Connection capacity AWG	AWG	24 - 10	24 - 10	24 - 10	24 - 10	24 - 10	24 - 10
Approval data (CSA)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-
General data							
Stripping length	[mm]	10			10		
Insulation material		PA			PA		
Inflammability class according to UL 94		V0			V0		
Panel thickness	[mm]	1 - 4			1 - 4		

Feed-through terminal blocks for high-current applications

(Molded) feed-through terminal blocks with angled push-in spring connection, PW series

N



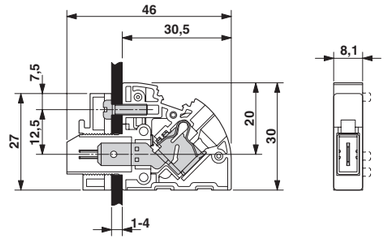
Internal part with spade connection

N

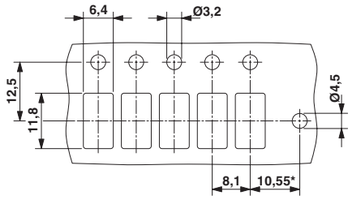


Internal part with solder connection

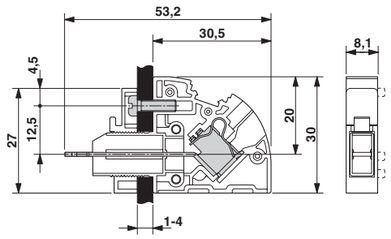
Dimensional drawing



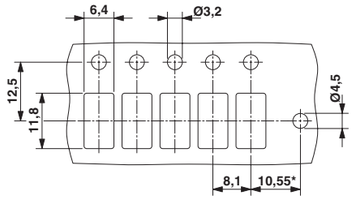
Drilling diagram



Dimensional drawing



Drilling diagram



Description	

Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
PWO 4-POT-SCM	**3056912**	50
Feed-through terminal block, with engagement pin		
PWO 4-POT-SCM/S	**3056925**	50

ZB 8.../ZBF 8... marking material (see Catalog 5)

TMT (EX9,5)R marking material (see online catalog)

Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
PWO 4-POT-SL	**3059715**	50
Feed-through terminal block, with engagement pin		
PWO 4-POT-SL/S	**3059728**	50

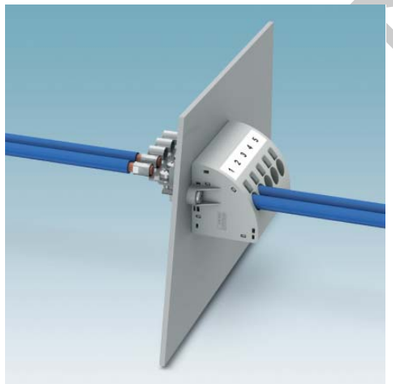
ZB 8.../ZBF 8... marking material (see Catalog 5)

TMT (EX9,5)R marking material (see online catalog)

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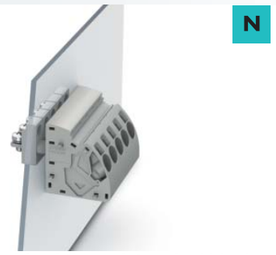
(Molded) feed-through terminal blocks with angled push-in spring connection, PW series

Inside with cable lug connection up to 76 A/16 mm²



- Convenient push-in connection
- The two halves of the terminal can be easily assembled by simply snapping them together
- Tool-free wiring of conductors with ferrules or solid conductors
- Molded version for maximum tightness
- Easy grouping with engagement pin version
- Spacer plates increase air and creepage distances
- Flange plates as an alternative mounting option

Notes:
Corresponding screws for fixing the feed-through terminal blocks are supplied as standard.
Inside = left side of portrait photos Outside = right side of portrait photos
¹) When using DP-PWO 16-9 spacer plate (1705658)



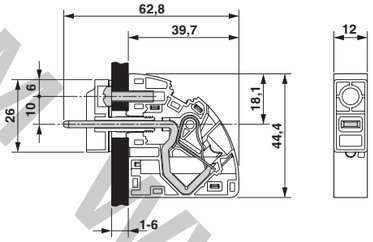
N

16 mm² molded feed-through terminal block, external part with push-in connection, internal part with cable lug connection

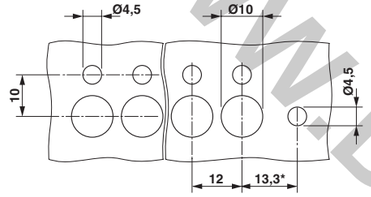
Accessories

For all types	Type	
	Spacer plate, 3 mm thick **DP-PWO 16-3** **Order No.** **1705655**	
	Spacer plate, 6 mm thick **DP-PWO 16-6** **Order No.** **1705657**	
	Spacer plate, 9 mm thick **DP-PWO 16-9** **Order No.** **1705658**	
	Flange plate **PWO 16-F** **Order No.** **1705659**	

Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE				
Current/conductor cross section	[A] / [mm²]	76 / 16 // 76 / 16		
Rated voltage	[V]	1000¹)		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	1.5 - 16 / 1.5 - 16 / 14 - 4		
Stranded with ferrules without plastic sleeve	[mm²]	1.5 - 16		
Stranded with ferrules with plastic sleeve	[mm²]	1.5 - 16		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	- / -		
Stranded with ferrules without plastic sleeve	[mm²]	-		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	1.5 - 4		
Cross section with insertion bridge (solid/stranded)	[mm²]	- / -		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	1000¹)	1000¹)	1000¹)
Rated surge voltage	[kV]	8	8	6
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Stripping length	[mm]	18		
Insulation material		PA		
Inflammability class according to UL 94		V0		
Panel thickness	[mm]	1 - 6		

Ordering data

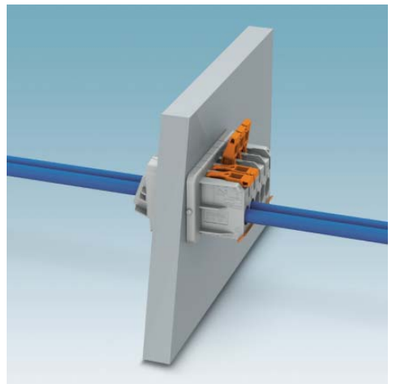
Description	Type	Order No.	Pcs. / Pkt.
	Feed-through terminal block		
	PWO 16-POT	**1705653**	50
	Feed-through terminal block, with engagement pin		
	PWO 16-POT/S	**1705654**	50

ZB 12.../ZBF 12... marking material (see Catalog 5)

TMT (EX9,5)R marking material (see online catalog)

Feed-through terminal blocks with horizontal push-lock spring connection, PLW series

Inside with angled push-in connection up to 41 A/6 mm², outside 16 mm²



- Panel feed-through terminal blocks for tool-free operation with fast connection technology
- Outside the device with installation-friendly push-lock connection up to 16 mm² solid
- Inside the device with quick-fit push-in technology up to 6 mm²
- With sealing option for unauthorized operation
- Spacer for 3 mm panel thickness

Notes:
Inside = left side of portrait photos Outside = right side of portrait photos



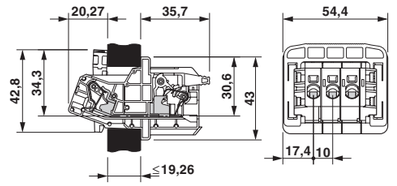
N

16/6 mm² feed-through terminal block, external part with push-lock connection, internal part with push-in connection

Accessories

For all types	Type	
	Spacer for 3 mm device panels, 3-pos. DP-PLW 16-6/3 3MM **Order No.** **1705937**	
	Spacer for 3 mm device panels, 4-pos. DP-PLW 16-6/4 3MM **Order No.** **1705938**	
	Spacer for 3 mm device panels, 5-pos. DP-PLW 16-6/5 3MM **Order No.** **1705939**	

Dimensional drawing



Technical data

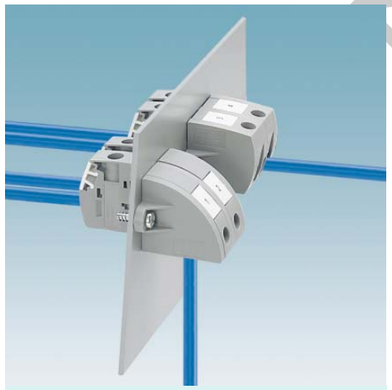
Technical data in accordance to IEC / DIN VDE				
Current/conductor cross section	[A] / [mm²]	41 / 16 // 41 / 16		
Rated voltage	[V]	1000		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	2.5 - 16 / 2.5 - 25 / 14 - 4		
Stranded with ferrules without plastic sleeve	[mm²]	2.5 - 16		
Stranded with ferrules with plastic sleeve	[mm²]	2.5 - 16		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	- / -		
Stranded with ferrules without plastic sleeve	[mm²]	-		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	-		
Cross section with insertion bridge (solid/stranded)	[mm²]	- / -		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	1000	1000	1000
Rated surge voltage	[kV]	8	8	8
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Stripping length	[mm]	18		
Insulation material		PA		
Inflammability class according to UL 94		V0		
Panel thickness	[mm]	19.26		

Ordering data

Description	Type	Order No.	Pcs. / Pkt.
	Feed-through terminal block, 3-pos.		
	PLW 16-6/ 3-10	**1821067**	15
	Feed-through terminal block, 4-pos.		
	PLW 16-6/ 4-10	**1821070**	15
	Feed-through terminal block, 5-pos.		
	PLW 16-6/ 5-10	**1821083**	15

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Inside with screw, solder or spade connection up to 41 A/6 mm²



- Universal screw connection with screw locking
- Both terminal halves can be easily assembled by simply snapping them together
- Automatic panel thickness compensation
- Easy grouping with engagement pin versions
- Touch-proof insulating housing in modern design
- Spacer plates increase air and creepage distances
- Flange plates for alternative mounting from the outside of the device

Notes:
Inside = left side of portrait photos Outside = right side of portrait photos
Corresponding screws for fixing the feed-through terminal blocks are supplied as standard.
For corresponding rivets for fixing the feed-through terminal blocks, see Catalog 5.
¹) The voltage specifications apply for mounting on a conductive housing panel and when using spacer plates.

Accessories

For all types	Type	
	Screwdriver **SZS 0,6 x 3,5** **Order No.** **1205053**	
	Insertion bridge, can be separated **EBS 10-8** **Order No.** **3118135**	
For UW 4 .../S		
	Spacer plate, 3 mm thick **DP-UW 4** **Order No.** **3074499**	
	Flange plate **UW 4-F** **Order No.** **3074512**	
For UWV 4 .../S		
	Spacer plate, 3 mm thick **DP-UWV 4** **Order No.** **3074509**	
	Flange plate **UWV 4-F** **Order No.** **3074596**	

Technical data

		UW 4			UWV 4		
Technical data in accordance to IEC / DIN VDE							
Current/conductor cross section	[A] / [mm²]	41 / 6 // 32 / 4			41 / 6 // 32 / 4		
Rated voltage	[V]	500¹)			500¹)		
Connection capacity							
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 6 / 0.2 - 4 / 24 - 10			0.2 - 6 / 0.2 - 4 / 24 - 10		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 4			0.25 - 4		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 4			0.25 - 4		
Multi-conductor connection capacity (two conductors with the same cross section)							
Solid / stranded	[mm²]	0.2 - 1.5 / 0.2 - 1.5			0.2 - 1.5 / 0.2 - 1.5		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 1.5			0.25 - 1.5		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 2.5			0.5 - 2.5		
Cross section with insertion bridge (solid/stranded)	[mm²]	1.5 - 4 / 1.5 - 2.5			1.5 - 4 / 1.5 - 2.5		
Insulation coordination							
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	500¹)	630¹)	1000¹)	500¹)	630¹)	1000¹)
Rated surge voltage	[kV]	6¹)	6¹)	6¹)	6¹)	6¹)	6¹)
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	300¹)	300¹)	600¹)	300¹)	300¹)	600¹)
Nominal current	[A]	30	30	5	30	30	5
Connection capacity AWG	AWG	24 - 10	24 - 10	24 - 10	24 - 10	24 - 10	24 - 10
Approval data (CSA)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-
General data							
Stripping length	[mm]	9			9		
Terminal sleeve: Thread / Torque	- / [Nm]	M3 / 0.6 - 0.8			M3 / 0.6 - 0.8		
Insulation material		PA			PA		
Inflammability class according to UL 94		V0			V0		
Panel thickness	[mm]	1 - 4			1 - 4		

Feed-through terminal blocks for high-current applications
(Molded) feed-through terminal blocks with horizontal, vertical screw connection, UW/HDFK series

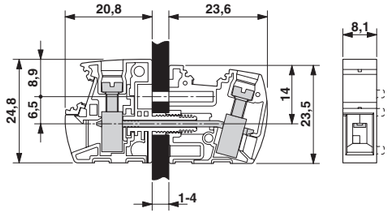


Horizontal conductor connection



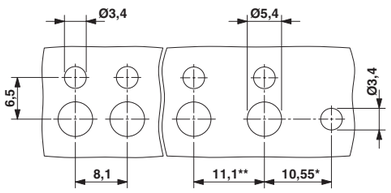
Vertical conductor connection

Dimensional drawing



Drilling diagram

* Only when using the **UW...–F** flange plate
** Dimensions when using the **DP-UW...** spacer plate



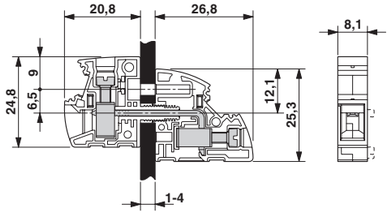
Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
UW 4	**3073306**	50
Feed-through terminal block, with engagement pin		
UW 4/S	**3073319**	50

ZB 8.../ZBF 8... marking material (see Catalog 5)

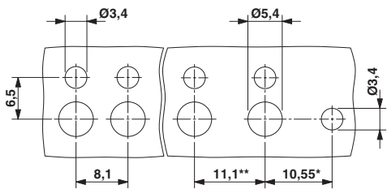
TMT (EX9,5)R marking material (see online catalog)

Dimensional drawing



Drilling diagram

* Only when using the **UW...–F** flange plate
** Dimensions when using the **DP-UW...** spacer plate



Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
UWV 4	**3073380**	50
Feed-through terminal block, with engagement pin		
UWV 4/S	**3073393**	50

ZB 8.../ZBF 8... marking material (see Catalog 5)

TMT (EX9,5)R marking material (see online catalog)

Description

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Inside with screw, solder or spade connection up to 41 A/6 mm²



- Universal screw connection with screw locking
- Both terminal halves can be easily assembled by simply snapping them together
- Automatic panel thickness compensation, thanks to the integrated snap principle in the insulating housing
- Easy grouping with engagement pin versions
- Molded type ensures maximum seal and is available with a slip-on or solder connection.
- Touch-proof insulating housing in modern design
- Spacer plates increase air and creepage distances
- Flange plates for alternative mounting from the outside of the device

Notes:
Inside = left side of portrait photos Outside = right side of portrait photos
Corresponding screws for fixing the feed-through terminal blocks are supplied as standard.
For corresponding rivets for fixing the feed-through terminal blocks, see Catalog 5.
¹) The voltage specifications apply for mounting on a conductive housing panel and when using spacer plates.

Accessories

For all types	Type	
	Screwdriver **SZS 0,6 x 3,5** **Order No.** **1205053**	
	Insertion bridge, can be separated **EBS 10-8** **Order No.** **3118135**	
For UW 4 .../S		
	Spacer plate, 3 mm thick **DP-UW 4** **Order No.** **3074499**	
	Flange plate **UW 4-F** **Order No.** **3074512**	

Technical data

		UW 4-POT-SCM			UW 4-POT-SL		
Technical data in accordance to IEC / DIN VDE							
Current/conductor cross section	[A] / [mm²]	41 / 6 // 32 / 4			41 / 6 // 32 / 4		
Rated voltage	[V]	800¹)			800¹)		
Connection capacity							
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 6 / 0.2 - 4 / 24 - 10			0.2 - 6 / 0.2 - 4 / 24 - 10		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 4			0.25 - 4		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 4			0.25 - 4		
Multi-conductor connection capacity (two conductors with the same cross section)							
Solid / stranded	[mm²]	0.2 - 1.5 / 0.2 - 1.5			0.2 - 1.5 / 0.2 - 1.5		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 1.5			0.25 - 1.5		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 2.5			0.5 - 2.5		
Cross section with insertion bridge (solid/stranded)	[mm²]	1.5 - 4 / 1.5 - 2.5			1.5 - 4 / 1.5 - 2.5		
Insulation coordination							
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	500	630	1000¹)	500	630	1000¹)
Rated surge voltage	[kV]	6	6	6	6	6	6
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	300¹)	300¹)	600¹)	300¹)	300¹)	600¹)
Nominal current	[A]	30	30	5	30	30	5
Connection capacity AWG	AWG	24 - 10	24 - 10	24 - 10	24 - 10	24 - 10	24 - 10
Approval data (CSA)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-
Nominal current	[A]	-	-	-	-	-	-
Connection capacity AWG	AWG	-	-	-	-	-	-
General data							
Stripping length	[mm]	10			10		
Terminal sleeve: Thread / Torque	- / [Nm]	M3 / 0.6 - 0.8			M3 / 0.6 - 0.8		
Insulation material		PA			PA		
Inflammability class according to UL 94		V0			V0		
Panel thickness	[mm]	1 - 4			1 - 4		

Feed-through terminal blocks for high-current applications

(Molded) feed-through terminal blocks with horizontal, vertical screw connection, UW/HDFK series

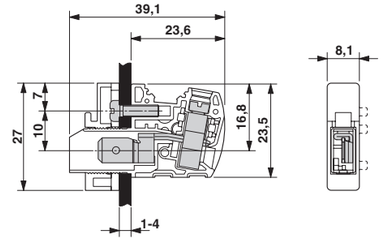


Internal part with spade connection



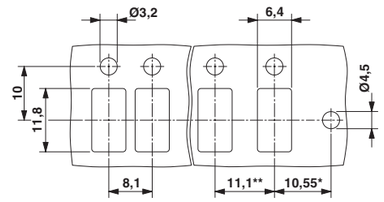
Internal part with solder connection

Dimensional drawing

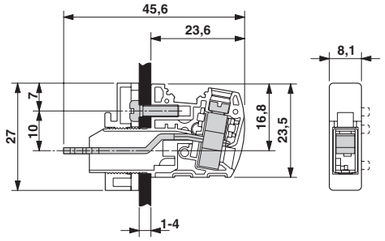


Drilling diagram

*Only when using the UW...-F flange plate
**Dimensions when using the DP-UW... spacer plate

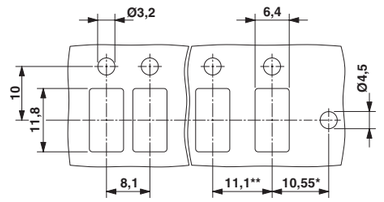


Dimensional drawing



Drilling diagram

*Only when using the UW...-F flange plate
**Dimensions when using the DP-UW... spacer plate



Description	

Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
UW 4-POT-SCM	**3056996**	50
Feed-through terminal block, with engagement pin		
UW 4-POT-SCM/S	**3056909**	50

ZB 8.../ZBF 8... marking material (see Catalog 5)

TMT (EX9,5)R marking material (see online catalog)

Ordering data

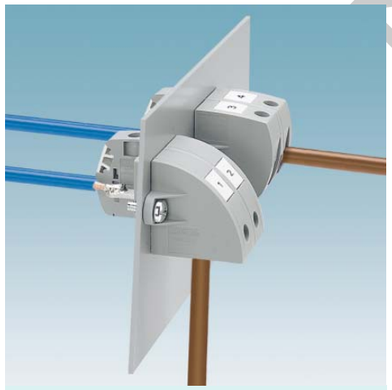
Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
UW 4-POT-SL	**3059757**	50
Feed-through terminal block, with engagement pin		
UW 4-POT-SL/S	**3059760**	50

ZB 8.../ZBF 8... marking material (see Catalog 5)

TMT (EX9,5)R marking material (see online catalog)

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Inside with screw, solder connection up to 76 A/16 mm²



- Universal screw connection with screw locking
- Both terminal halves can be easily assembled by simply snapping them together
- Automatic panel thickness compensation
- Easy grouping with engagement pin versions
- Molded versions ensure maximum tightness of seal
- Touch-proof insulating housing in modern design
- Spacer plates increase air and creepage distances
- Flange plates for alternative mounting from the outside of the device

Notes:
Inside = left side of portrait photos Outside = right side of portrait photos
Corresponding screws for fixing the feed-through terminal blocks are supplied as standard.
For corresponding rivets for fixing the feed-through terminal blocks, see Catalog 5.
¹) The voltage specifications apply for mounting on a conductive housing panel and when using spacer plates.

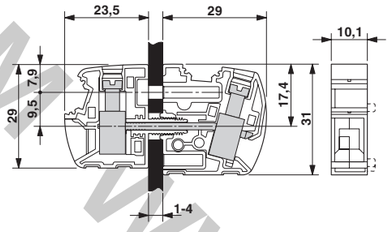
Accessories

For all types	Type	
	Screwdriver **SZS 1,0 x 4,0** **Order No.** **1205066**	
	Insertion bridge, can be separated **EBS 10-10** **Order No.** **0203137**	
For UW 10 .../S		
	Spacer plate, 3 mm thick **DP-UW 10** **Order No.** **3074389**	
	Flange plate **UW 10-F** **Order No.** **3074525**	
For UWV 10 .../S		
	Spacer plate, 3 mm thick **DP-UWV 10** **Order No.** **3074415**	
	Flange plate **UWV 10-F** **Order No.** **3074606**	



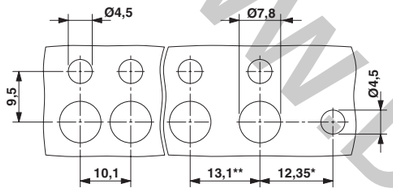
Feed-through terminal blocks, horizontal conductor connection

Dimensional drawing



Drilling diagram

* Only when using the **UW...–F** flange plate
** Dimensions when using the **DP-UW...** spacer plate



Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
UW 10	**3073322**	50
Feed-through terminal block, with engagement pin		
UW 10/S	**3073335**	50

ZB 10.../ZBF 10... marking material (see Catalog 5)

TMT (EX9,5)R marking material (see online catalog)

Technical data

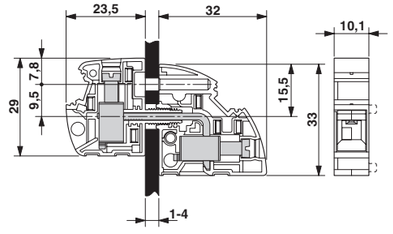
Technical data in accordance to IEC / DIN VDE				
Current/conductor cross section	[A] / [mm²]	76 / 16 // 57 / 10		
Rated voltage	[V]	500¹)		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	0.5 - 16 / 0.5 - 10 / 20 - 6		
Stranded with ferrules without plastic sleeve	[mm²]	0.5 - 10		
Stranded with ferrules with plastic sleeve	[mm²]	0.5 - 10		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	0.5 - 4 / 0.5 - 4		
Stranded with ferrules without plastic sleeve	[mm²]	0.5 - 2.5		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 6		
Cross section with insertion bridge (solid/stranded)	[mm²]	2.5 - 10 / 2.5 - 10		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	500¹)	630¹)	1000¹)
Rated surge voltage	[kV]	6¹)	6¹)	6¹)
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300¹)	300¹)	600¹)
Nominal current	[A]	65	65	5
Connection capacity AWG	AWG	20 - 6	20 - 6	20 - 6
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Stripping length	[mm]	11		
Terminal sleeve: Thread / Torque	- / [Nm]	M4 / 1.5 - 1.8		
Insulation material		PA		
Inflammability class according to UL 94		V0		
Panel thickness	[mm]	1 - 4		

Description



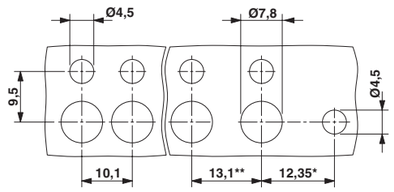
Feed-through terminal blocks, vertical conductor connection

Dimensional drawing



Drilling diagram

* Only when using the **UW...–F** flange plate
** Dimensions when using the **DP-UW...** spacer plate



Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
UWV 10	**3073403**	50
Feed-through terminal block, with engagement pin		
UWV 10/S	**3073416**	50

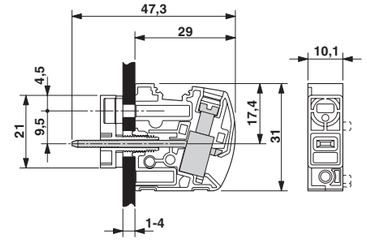
ZB 10.../ZBF 10... marking material (see Catalog 5)

TMT (EX9,5)R marking material (see online catalog)



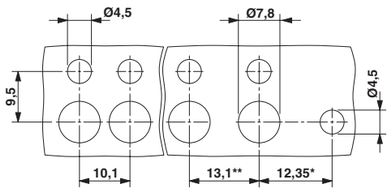
Molded feed-through terminal blocks, horizontal conductor connection, internal part with solder connection

Dimensional drawing



Drilling diagram

* Only when using the **UW...–F** flange plate
** Dimensions when using the **DP-UW...** spacer plate



Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
UW 10-POT	**3073461**	50
Feed-through terminal block, with engagement pin		
UW 10-POT/S	**3073474**	50

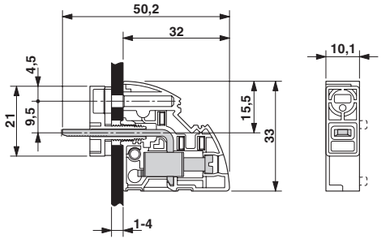
ZB 10.../ZBF 10... marking material (see Catalog 5)

TMT (EX9,5)R marking material (see online catalog)



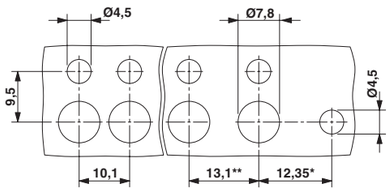
Molded feed-through terminal blocks, vertical conductor connection, internal part with solder connection

Dimensional drawing



Drilling diagram

* Only when using the **UW...–F** flange plate
** Dimensions when using the **DP-UW...** spacer plate



Ordering data

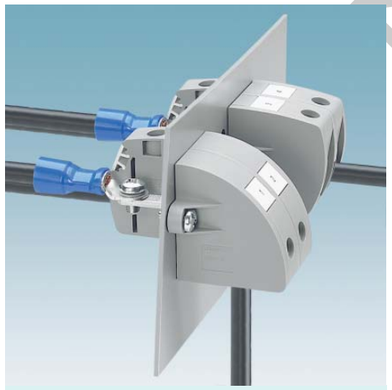
Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
UWV 10-POT	**3073526**	50
Feed-through terminal block, with engagement pin		
UWV 10-POT/S	**3073539**	50

ZB 10.../ZBF 10... marking material (see Catalog 5)

TMT (EX9,5)R marking material (see online catalog)

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Inside with screw, cable lug connection up to 101 A/25 mm²



- Universal screw connection with screw locking
- Both terminal halves can be easily assembled by simply snapping them together
- Automatic panel thickness compensation
- Easy grouping with engagement pin versions
- Molded versions ensure maximum tightness of seal
- Touch-proof insulating housing in modern design
- Spacer plates increase air and creepage distances
- Flange plates for alternative mounting from the outside of the device

Notes:
Inside = left side of portrait photos Outside = right side of portrait photos
Corresponding screws for fixing the feed-through terminal blocks are supplied as standard.
For corresponding rivets for fixing the feed-through terminal blocks, see Catalog 5.
Notes on connecting aluminum conductors can be found at: **www.phoenixcontact.net/products.**
¹) The voltage specifications apply for mounting on a conductive housing panel and when using spacer plates.

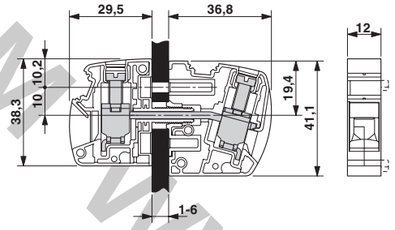
Accessories

For all types	Type	
	Screwdriver **SZS 1,0 x 4,0** **Order No.** **1205066**	
For UW 16 .../S		
	Spacer plate, 3 mm thick **DP-UW 16** **Order No.** **3074392**	
	Flange plate **UW 16-F** **Order No.** **3074538**	
For UWV 16 .../S		
	Spacer plate, 3 mm thick **DP-UWV 16** **Order No.** **3074428**	
	Flange plate **UWV 16-F** **Order No.** **3074619**	



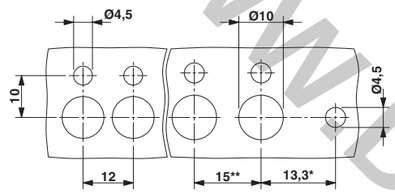
Feed-through terminal blocks, horizontal conductor connection

Dimensional drawing



Drilling diagram

* Only when using the **UW...–F** flange plate
** Dimensions when using the **DP-UW...** spacer plate



Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
UW 16	**3073348**	50
Feed-through terminal block, with engagement pin		
UW 16/S	**3073351**	50

ZB 12.../ZBF 12... marking material (see Catalog 5)

TMT (EX9,5)R marking material (see online catalog)

Technical data

Technical data in accordance to IEC / DIN VDE				
Current/conductor cross section	[A] / [mm²]	101 / 25 // 76 / 16		
Rated voltage	[V]	800¹)		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	6 - 25 / 6 - 16 / 10 - 4		
Stranded with ferrules without plastic sleeve	[mm²]	6 - 16		
Stranded with ferrules with plastic sleeve	[mm²]	6 - 16		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	2.5 - 10 / 2.5 - 6		
Stranded with ferrules without plastic sleeve	[mm²]	4 - 6		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	4 - 6		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	800¹)	1000¹)	1000¹)
Rated surge voltage	[kV]	8¹)	8¹)	8¹)
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	600¹)	600¹)	-
Nominal current	[A]	85	85	-
Connection capacity AWG	AWG	10 - 4	10 - 4	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Stripping length	[mm]	16		
Terminal sleeve: Thread / Torque	- / [Nm]	M5 / 2.5 - 3		
Insulation material		PA		
Inflammability class according to UL 94		V0		
Panel thickness	[mm]	1 - 6		

Description

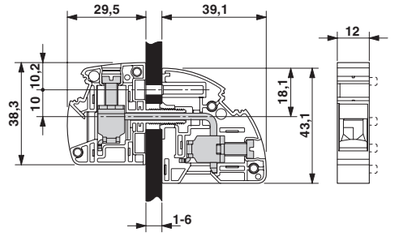
Feed-through terminal blocks for high-current applications

(Molded) feed-through terminal blocks with horizontal, vertical screw connection, UW/HDFK series



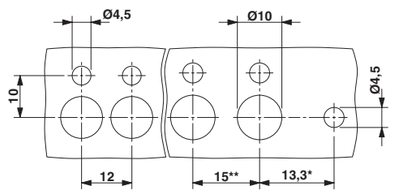
Feed-through terminal blocks, vertical conductor connection

Dimensional drawing



Drilling diagram

* Only when using the **UW...–F** flange plate
** Dimensions when using the **DP-UW...** spacer plate



Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
UWV 16	**3073419**	50
Feed-through terminal block, with engagement pin		
UWV 16/S	**3073432**	50

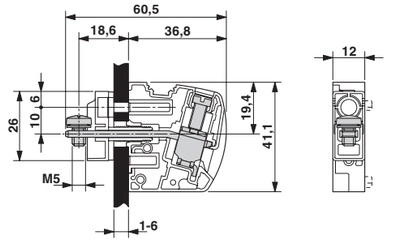
ZB 12.../ZBF 12... marking material (see Catalog 5)

TMT (EX9,5)R marking material (see online catalog)



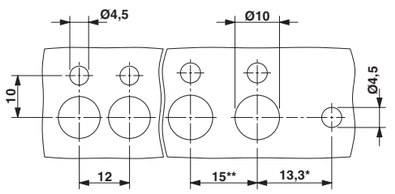
Molded feed-through terminal blocks, horizontal conductor connection, internal part with M5 screw connection

Dimensional drawing



Drilling diagram

* Only when using the **UW...–F** flange plate
** Dimensions when using the **DP-UW...** spacer plate



Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
UW 16-POT	**3073487**	50
Feed-through terminal block, with engagement pin		
UW 16-POT/S	**3073490**	50

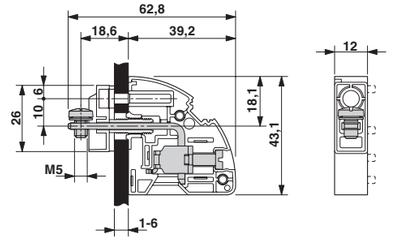
ZB 12.../ZBF 12... marking material (see Catalog 5)

TMT (EX9,5)R marking material (see online catalog)



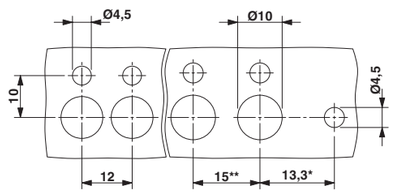
Molded feed-through terminal blocks, vertical conductor connection, internal part with M5 screw connection

Dimensional drawing



Drilling diagram

* Only when using the **UW...–F** flange plate
** Dimensions when using the **DP-UW...** spacer plate



Ordering data

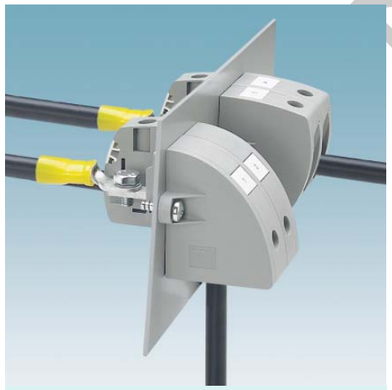
Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
UWV 16-POT	**3073542**	50
Feed-through terminal block, with engagement pin		
UWV 16-POT/S	**3073555**	50

ZB 12.../ZBF 12... marking material (see Catalog 5)

TMT (EX9,5)R marking material (see online catalog)

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Inside with screw, cable lug connection up to 125 A/35 mm²



- Universal screw connection with screw locking
- Both terminal halves can be easily assembled by simply snapping them together
- Automatic panel thickness compensation
- Easy grouping with engagement pin versions
- Molded versions ensure maximum tightness of seal
- Touch-proof insulating housing in modern design
- Spacer plates increase air and creepage distances
- Flange plates for alternative mounting from the outside of the device

Notes:
Inside = left side of portrait photos Outside = right side of portrait photos
Corresponding screws for fixing the feed-through terminal blocks are supplied as standard.
For corresponding rivets for fixing the feed-through terminal blocks, see Catalog 5.
Notes on connecting aluminum conductors can be found at: **www.phoenixcontact.net/products.**
¹) The voltage specifications apply for mounting on a conductive housing panel and when using spacer plates.

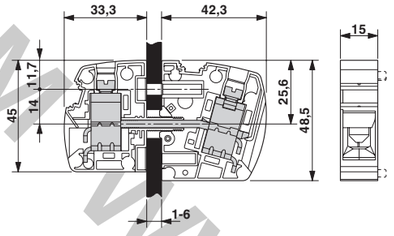
Accessories

For all types	Type	
	Screwdriver **SZS 1,0 x 6,5** **Order No.** **1205079**	
For UW 25 .../S		
	Spacer plate, 4 mm thick **DP-UW 25** **Order No.** **3074402**	
	Flange plate **UW 25-F** **Order No.** **3074541**	
For UWV 25 .../S		
	Spacer plate, 4 mm thick **DP-UWV 25** **Order No.** **3074431**	
	Flange plate **UWV 25-F** **Order No.** **3074622**	



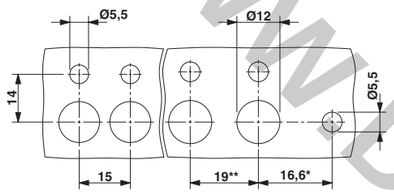
Feed-through terminal blocks, horizontal conductor connection

Dimensional drawing



Drilling diagram

* Only when using the **UW...–F** flange plate
** Dimensions when using the **DP-UW...** spacer plate



Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
UW 25	**3073364**	25
Feed-through terminal block, with engagement pin		
UW 25/S	**3073377**	25

ZB 15.../ZBF 15... marking material (see Catalog 5)

TMT (EX9,5)R marking material (see online catalog)

Technical data

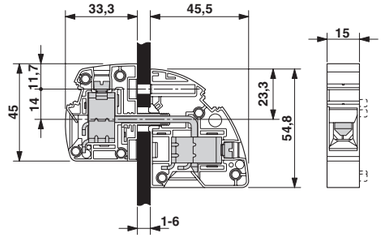
Technical data in accordance to IEC / DIN VDE				
Current/conductor cross section	[A] / [mm²]	125 / 35 // 101 / 25		
Rated voltage	[V]	800¹)		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	6 - 35 / 10 - 25 / 10 - 2		
Stranded with ferrules without plastic sleeve	[mm²]	4 - 25		
Stranded with ferrules with plastic sleeve	[mm²]	4 - 25		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	2.5 - 10 / 4 - 10		
Stranded with ferrules without plastic sleeve	[mm²]	2.5 - 10		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	2.5 - 10		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	800¹)	1000¹)	1000¹)
Rated surge voltage	[kV]	8¹)	8¹)	8¹)
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	600¹)	600¹)	-
Nominal current	[A]	112.5	112.5	-
Connection capacity AWG	AWG	10 - 2	10 - 2	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Stripping length	[mm]	19		
Terminal sleeve: Thread / Torque	- / [Nm]	M5 / 4 - 4.5		
Insulation material		PA		
Inflammability class according to UL 94		V0		
Panel thickness	[mm]	1 - 6		

Description



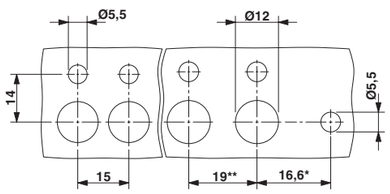
Feed-through terminal blocks, vertical conductor connection

Dimensional drawing



Drilling diagram

* Only when using the **UW...–F** flange plate
** Dimensions when using the **DP-UW...** spacer plate



Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
UWV 25	**3073445**	25
Feed-through terminal block, with engagement pin		
UWV 25/S	**3073458**	25

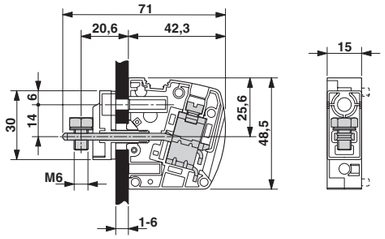
ZB 15.../ZBF 15... marking material (see Catalog 5)

TMT (EX9,5)R marking material (see online catalog)



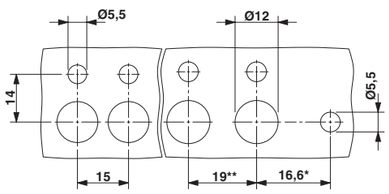
Molded feed-through terminal blocks, horizontal conductor connection, internal part with M6 screw connection

Dimensional drawing



Drilling diagram

* Only when using the **UW...–F** flange plate
** Dimensions when using the **DP-UW...** spacer plate



Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
UW 25-POT	**3073500**	25
Feed-through terminal block, with engagement pin		
UW 25-POT/S	**3073513**	25

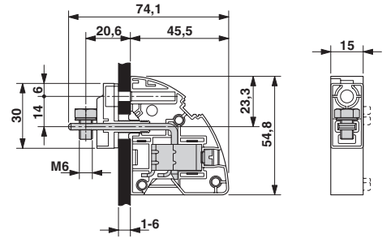
ZB 15.../ZBF 15... marking material (see Catalog 5)

TMT (EX9,5)R marking material (see online catalog)



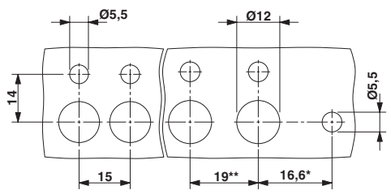
Molded feed-through terminal blocks, vertical conductor connection, internal part with M6 screw connection

Dimensional drawing



Drilling diagram

* Only when using the **UW...–F** flange plate
** Dimensions when using the **DP-UW...** spacer plate



Ordering data

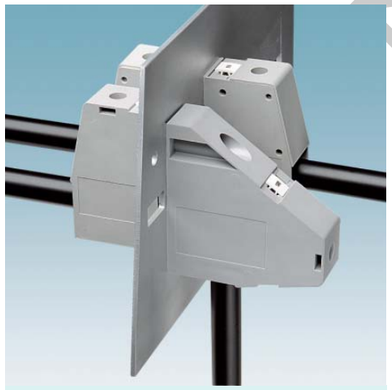
Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
UWV 25-POT	**3073568**	25
Feed-through terminal block, with engagement pin		
UWV 25-POT/S	**3073571**	25

ZB 15.../ZBF 15... marking material (see Catalog 5)

TMT (EX9,5)R marking material (see online catalog)

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Inside with screw, cable lug connection up to 150 A/50 mm²



- Universal screw connection with screw locking
- Both terminal halves can be easily assembled by simply snapping them together
- Automatic panel thickness compensation
- Easy grouping with engagement pin versions
- Touch-proof insulating housing
- Spacer plates increase air and creepage distances

Notes:

Inside = left side of portrait photos
Outside = right side of portrait photos

Notes on connecting aluminum conductors can be found at:
www.phoenixcontact.net/products.

Accessories

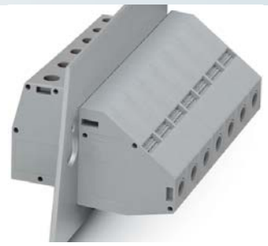
For all types	Type	
	Insertion profile **UKH 50 EP** **Order No.** **3009228**	
	Screwdriver **SZS 1.2X8.0** **Order No.** **1205082**	
Only for HDFK 50		
	Spacer plate **DP-HDFK 50/7.2** **Order No.** **0709990**	

Technical data

		HDFK 50			HDFKV 50		
Technical data in accordance to IEC / DIN VDE							
Current/conductor cross section	[A] / [mm²]	150 / 50 // 150 / 50			150 / 50 // 150 / 50		
Rated voltage	[V]	690			690		
Connection capacity							
Solid / stranded	[mm²] / [mm²] / AWG	16 - 50 / 16 - 50 / 6 - 1/0			16 - 50 / 16 - 50 / 6 - 1/0		
Stranded with ferrules without plastic sleeve	[mm²]	10 - 50			10 - 50		
Stranded with ferrules with plastic sleeve	[mm²]	10 - 50			10 - 50		
Multi-conductor connection capacity (two conductors with the same cross section)							
Solid / stranded	[mm²]	6 - 16 / 10 - 16			6 - 16 / 10 - 16		
Stranded with ferrules without plastic sleeve	[mm²]	6 - 16			6 - 16		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	6 - 10			6 - 10		
Insulation coordination							
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	690	1000	1000	690	1000	1000
Rated surge voltage	[kV]	6	6	6	6	6	6
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	600	600	-	600	600	-
Nominal current	[A]	150	150	-	150	150	-
Connection capacity AWG	AWG	6 - 1/0	6 - 1/0	-	6 - 1/0	6 - 1/0	-
Approval data (CSA)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	600	600	-	600	600	-
Nominal current	[A]	125	125	-	125	125	-
Connection capacity AWG	AWG	6 - 1/0	6 - 1/0	-	6 - 1/0	6 - 1/0	-
General data							
Stripping length	[mm]	24			24		
Terminal sleeve: Thread / Torque	- / [Nm]	M6 / 6 - 8			M6 / 6 - 8		
Insulation material		PA			PA		
Inflammability class according to UL 94		V0			V0		
Panel thickness	[mm]	1 - 6			1 - 6		

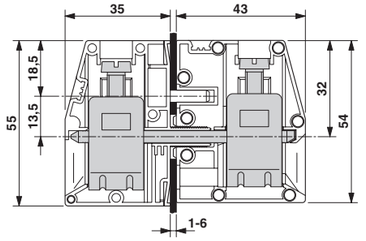


Horizontal conductor connection



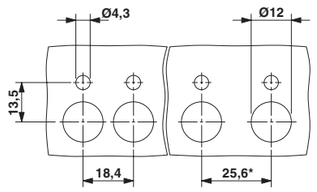
Vertical conductor connection

Dimensional drawing

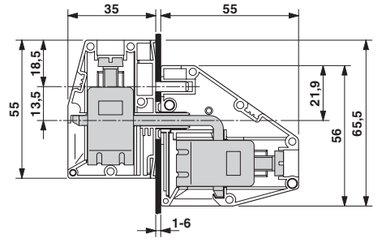


Drilling diagram

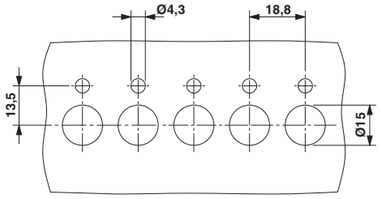
* Dimensions when using the **DP-HDFK 50/7.2** spacer plate



Dimensional drawing



Drilling diagram



Description	

Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
HDFK 50	**0708739**	10
Feed-through terminal block, with engagement pin		
HDFK 50/Z	**0705017**	10

UC-TM 12 marking material for marking the center and lateral groove (see Catalog 5)
ZB 15 marking material for marking the center and lateral groove (see Catalog 5)

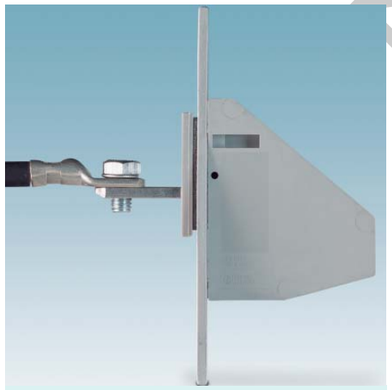
Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
HDFKV 50	**0708522**	10
Feed-through terminal block, with engagement pin		
HDFKV 50/Z	**0714095**	10

UC-TM 12 marking material for marking the center and lateral groove (see Catalog 5)
ZB 15 marking material for marking the center and lateral groove (see Catalog 5)

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Inside with screw, cable lug connection up to 232 A/95 mm²



- Universal screw connection with screw locking
- Both terminal halves can be easily assembled by simply snapping them together
- Automatic panel thickness compensation
- Easy grouping with engagement pin versions
- Molded versions ensure maximum tightness of seal
- Touch-proof insulating housing

Notes:

Inside = left side of portrait photos
Outside = right side of portrait photos

Notes on connecting aluminum conductors can be found at:
www.phoenixcontact.net/products.

¹) 630 V for metal panels from 2.5 mm to 5 mm.
500 V for metal panels from 5 mm to 6 mm.

Accessories

For all types	Type	
Only for HDFK 50-VP and HDFKV 50-VP		
	Insertion profile **UKH 50 EP** **Order No. 3009228**	
	Screwdriver **SZS 1.2X8.0** **Order No. 1205082**	
Only for HDFKV 95-F-VP		
	Insertion profile **UKH 95 EP** **Order No. 3009231**	
	Allen wrench **VDE-ISS 6** **Order No. 1201934**	

Technical data

		HDFK 50-VP			HDFKV 50-VP			HDFK 95-F-VP		
Technical data in accordance to IEC / DIN VDE										
Current/conductor cross section	[A] / [mm²]	150 / 50 // 150 / 50			150 / 50 // 150 / 50			232 / 95 // 232 / 95		
Rated voltage	[V]	690			690			630¹)		
Connection capacity										
Solid / stranded	[mm²] / [mm²] / AWG	16 - 50 / 16 - 50 / 6 - 1/0			16 - 50 / 16 - 50 / 6 - 1/0			35 - 95 / 35 - 95 / 4 - 3/0		
Stranded with ferrules without plastic sleeve	[mm²]	10 - 50			10 - 50			30 - 95		
Stranded with ferrules with plastic sleeve	[mm²]	10 - 50			10 - 50			30 - 95		
Multi-conductor connection capacity (two conductors with the same cross section)										
Solid / stranded	[mm²]	6 - 16 / 10 - 16			6 - 16 / 10 - 16			25 - 35 / 25 - 35		
Stranded with ferrules without plastic sleeve	[mm²]	6 - 16			6 - 16			16 - 35		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	6 - 10			6 - 10			-		
Insulation coordination										
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	690	1000	1000	690	1000	1000	630	1000	1000
Rated surge voltage	[kV]	6	6	6	6	6	6	6	6	6
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	600	600	-	600	600	-	600	600	-
Nominal current	[A]	150	150	-	150	150	-	230	230	-
Connection capacity AWG	AWG	6 - 1/0	6 - 1/0	-	6 - 1/0	6 - 1/0	-	4 - 4/0	4 - 4/0	-
Approval data (CSA)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	600	600	-	600	600	-	600	600	-
Nominal current	[A]	125	125	-	125	125	-	200	200	-
Connection capacity AWG	AWG	6 - 1/0	6 - 1/0	-	6 - 1/0	6 - 1/0	-	2 - 4/0	2 - 4/0	-
General data										
Stripping length	[mm]	24			24			27		
Terminal sleeve: Thread / Torque	- / [Nm]	M6 / 6 - 8			M6 / 6 - 8			M8 / 15 - 20		
Cable lug connection: Thread / tightening torque										
Insulation material		PA			PA			PA		
Inflammability class according to UL 94		V0			V0			V0		
Panel thickness	[mm]	1 - 6			1 - 6			1 - 6		

	Description



50 mm² feed-through terminal blocks, horizontal conductor connection

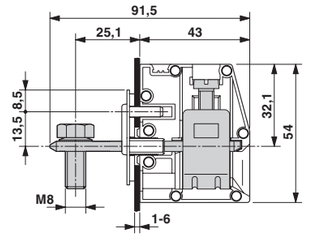


50 mm² feed-through terminal blocks, vertical conductor connection

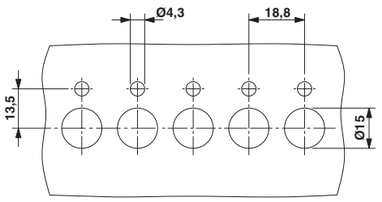


95 mm² feed-through terminal blocks, horizontal conductor connection, external terminal half with screw flange

Dimensional drawing



Drilling diagram

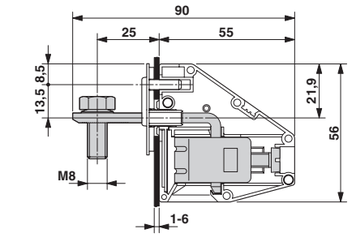


Ordering data

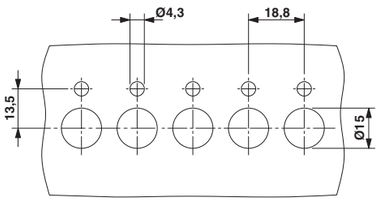
Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
HDFK 50-VP	**0709123**	10
Feed-through terminal block, with engagement pin		
HDFK 50-VP/Z	**0711218**	10

UC-TM 12 marking material for marking the center and lateral groove (see Catalog 5)
ZB 15 marking material for marking the center and lateral groove (see Catalog 5)

Dimensional drawing



Drilling diagram

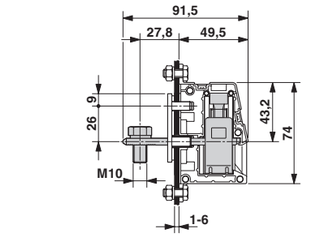


Ordering data

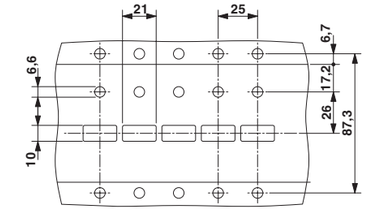
Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
HDFKV 50-VP	**0708580**	10
Feed-through terminal block, with engagement pin		
HDFKV 50-VP/Z	**0717212**	10

UC-TM 12 marking material for marking the center and lateral groove (see Catalog 5)
ZB 15 marking material for marking the center and lateral groove (see Catalog 5)

Dimensional drawing



Drilling diagram



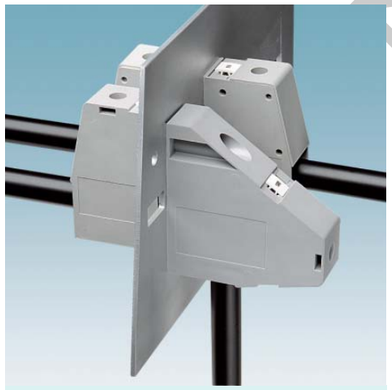
Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
HDFK 95-F-VP	**0709916**	10
Feed-through terminal block, with engagement pin		
HDFK 95-F-VP/Z	**0717076**	10

UC-TM 12 marking material for marking the center and lateral groove (see Catalog 5)
ZB 12 marking material for marking the center and lateral groove (see Catalog 5)

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Inside with screw, cable lug connection up to 232 A/95 mm²



- Universal screw connection with screw locking
- Both terminal halves can be easily assembled by simply snapping them together
- Automatic panel thickness compensation
- Easy grouping with engagement pin versions
- Spacer plates increase air and creepage distances
- Touch-proof insulating housing

Notes:

Inside = left side of portrait photos
Outside = right side of portrait photos

Notes on connecting aluminum conductors can be found at:
www.phoenixcontact.net/products.

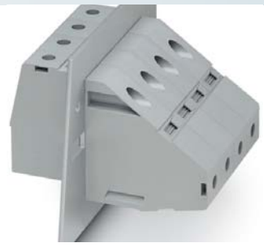
[1]) 1000 V for metal panels from 1 mm to 2.5 mm
800 V for metal panels larger than 2.5 mm up to 5 mm
690 V for metal panels larger than 5 mm up to 6 mm



Horizontal conductor connection



Horizontal conductor connection, external terminal half with screw flange



Vertical conductor connection

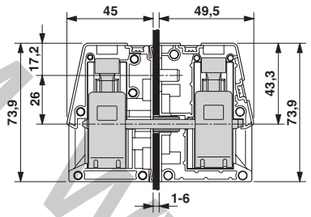


Vertical conductor connection, external terminal half with screw flange

Accessories

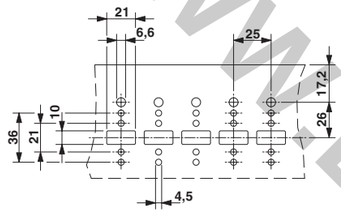
For all types	Type	
	Insertion profile **UKH 95 EP** **Order No. 3009231**	
	Allen wrench **VDE-ISS 6** **Order No. 1201934**	
Only for HDFK 95		
	Spacer plate **DP-HDFK 95/15** **Order No. 0717102**	

Dimensional drawing

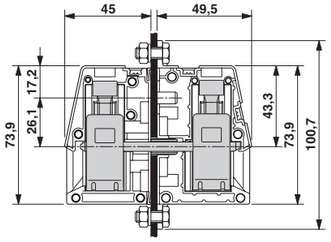


Drilling diagram

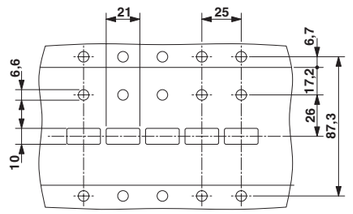
* Dimensions when using the **DP-HDFK 95/15** spacer plate



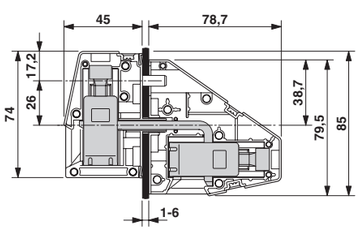
Dimensional drawing



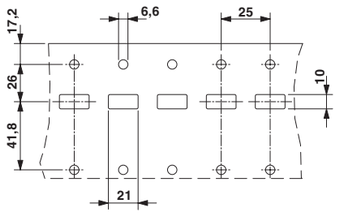
Drilling diagram



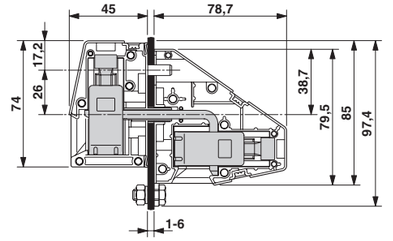
Dimensional drawing



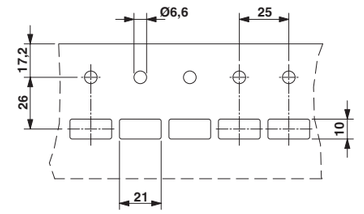
Drilling diagram



Dimensional drawing



Drilling diagram



Technical data

Technical data in accordance to IEC / DIN VDE				
Current/conductor cross section	[A] / [mm²]	232 / 95 // 232 / 95		
Rated voltage	[V]	1000[1])		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	35 - 95 / 35 - 95 / 4 - 2/0		
Stranded with ferrules without plastic sleeve	[mm²]	25 - 95		
Stranded with ferrules with plastic sleeve	[mm²]	25 - 95		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	25 - 35 / 25 - 35		
Stranded with ferrules without plastic sleeve	[mm²]	16 - 35		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	-		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	1000	1000	1000
Rated surge voltage	[kV]	8	6	6
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	600	600	-
Nominal current	[A]	230	230	-
Connection capacity AWG	AWG	4 - 4/0	4 - 4/0	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	600	600	-
Nominal current	[A]	200	200	-
Connection capacity AWG	AWG	2 - 4/0	2 - 4/0	-
General data				
Stripping length	[mm]	27		
Terminal sleeve: Thread / Torque	- / [Nm]	M8 / 15 - 20		
Insulation material		PA		
Inflammability class according to UL 94		V0		
Panel thickness	[mm]	1 - 6		

Description

Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
HDFK 95	**0709534**	10
Feed-through terminal block, with engagement pin		
HDFK 95/Z	**0717364**	10

UC-TM 12 marking material for marking the center and lateral groove (see Catalog 5)
ZB 12 marking material for marking the center and lateral groove (see Catalog 5)

Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
HDFK 95-F	**0709644**	10
Feed-through terminal block, with engagement pin		
HDFK 95-F/Z	**0714037**	10

UC-TM 12 marking material for marking the center and lateral groove (see Catalog 5)
ZB 12 marking material for marking the center and lateral groove (see Catalog 5)

Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
HDFKV 95	**0709547**	10
Feed-through terminal block, with engagement pin		
HDFKV 95/Z	**0714105**	10

UC-TM 12 marking material for marking the center and lateral groove (see Catalog 5)
ZB 12 marking material for marking the center and lateral groove (see Catalog 5)

Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
HDFKV 95-F	**0709673**	10
Feed-through terminal block, with engagement pin		
HDFKV 95-F/Z	**0714118**	10

UC-TM 12 marking material for marking the center and lateral groove (see Catalog 5)
ZB 12 marking material for marking the center and lateral groove (see Catalog 5)

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Vertical double connection outside up to 152 A/35 mm²



- Universal screw connection with screw locking
- Ideal for looping through power supply cables
- Both terminal halves can be easily assembled by simply snapping them together
- Automatic panel thickness compensation
- Easy grouping with engagement pin versions
- Touch-proof insulating housing

Notes:

Inside = left side of portrait photos
Outside = right side of portrait photos

Note:
With the HDFKV-TWIN, the terminal space must be completely open when joining both terminal block halves.

[1]) The max. load current must not be exceeded by the total current of all connected conductors.

[2]) 400 V for metal panels from 1 mm to 2.5 mm
250 V for metal panels larger than 2.5 mm up to 4 mm
500 V for plastic panels from 1 mm to 4 mm

Accessories

For all types	Type	
	Screwdriver **SZS 1,0 x 4,0** **Order No.** **1205066**	
Only for HDFK 10-TWIN		
	Insertion bridge EB 2-10 **Order No.** **0203153**	
	Insertion bridge **EB 3-10** **Order No.** **0203328**	
	Insertion bridge **EB 10-10** **Order No.** **0203137**	

Technical data

		HDFKV 10-TWIN			HDFKV 25-TWIN		
Technical data in accordance to IEC / DIN VDE							
Current/conductor cross section	[A] / [mm²]	76[1]) / 16 // 57[1]) // 10			125[1]) / 35 // 101[1]) / / 25		
Rated voltage	[V]	400[2])			500		
Connection capacity							
Solid / stranded	[mm²] / [mm²] / AWG	0.5 - 16 / 0.5 - 10 / 20 - 6			6 - 35 / 10 - 25 / 10 - 2		
Stranded with ferrules without plastic sleeve	[mm²]	0.5 - 10			4 - 25		
Stranded with ferrules with plastic sleeve	[mm²]	0.5 - 10			4 - 25		
Multi-conductor connection capacity (two conductors with the same cross section)							
Solid / stranded	[mm²]	0.5 - 4 / 0.5 - 4			2.5 - 10 / 4 - 10		
Stranded with ferrules without plastic sleeve	[mm²]	0.5 - 2.5			2.5 - 10		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 6			2.5 - 10		
Cross section with insertion bridge (solid/stranded)	[mm²]	2.5 - 10 / 2.5 - 10			- / -		
Insulation coordination							
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	400	1000	1000	500	1000	1000
Rated surge voltage	[kV]	6	6	6	6	6	6
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	-	600	300	600	600	-
Nominal current	[A]	-	65	10	115	115	-
Connection capacity AWG	AWG	-	24 - 6	24 - 6	8 - 2	8 - 2	-
Approval data (CSA)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	600	600	-
Nominal current	[A]	-	-	-	100	100	-
Connection capacity AWG	AWG	-	-	-	8 - 4	8 - 4	-
General data							
Stripping length	[mm]	11			19		
Terminal sleeve: Thread / Torque	- / [Nm]	M4 / 1.5 - 1.8			M5 / 4 - 4.5		
Insulation material		PA			PA		
Inflammability class according to UL 94		V0			V0		
Panel thickness	[mm]	1 - 4			1 - 6		

Feed-through terminal blocks for high-current applications

(Molded) feed-through terminal blocks with horizontal, vertical screw connection, UW/HDFK series

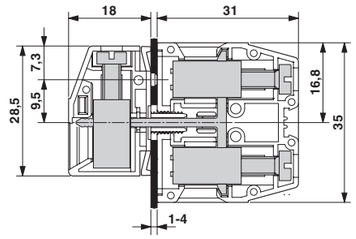


10/16 mm² TWIN feed-through terminal blocks

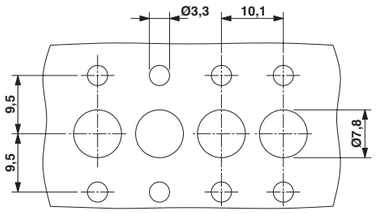


25/35 mm² TWIN feed-through terminal blocks

Dimensional drawing



Drilling diagram

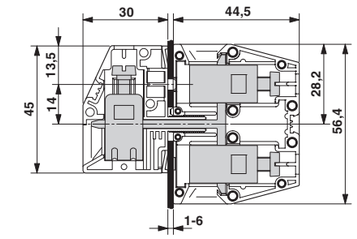


Ordering data

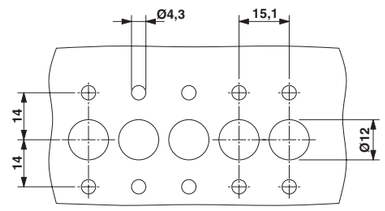
Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
HDFKV 10-TWIN	**0709550**	50

UC-TM 8 marking material for marking the center and lateral groove (see Catalog 5)
ZB 8 marking material for marking the center and lateral groove (see Catalog 5)

Dimensional drawing



Drilling diagram



Ordering data

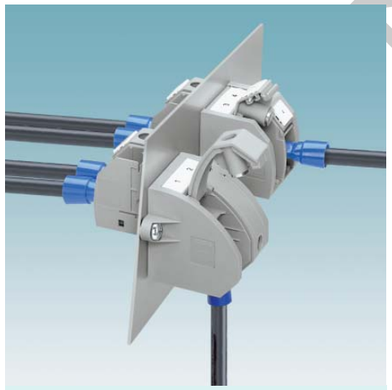
Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
HDFKV 25-TWIN	**0709563**	25

UC-TM 10 marking material for marking the center and lateral groove (see Catalog 5)
ZB 10 marking material for marking the center and lateral groove (see Catalog 5)

Description

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With captive cover nut up to 76 A/16 mm²



- Quick and easy conductor connection thanks to hinged cover flaps with captive clamping nut
- Both terminal halves can be easily assembled by simply snapping them together
- Automatic panel thickness compensation
- Easy grouping with engagement pin versions
- Molded versions ensure maximum tightness of seal
- Touch-proof insulating housing in modern design
- Spring-loaded spacers protect the bolt connection against loosening

Notes:
Inside = left side of portrait photos Outside = right side of portrait photos
Corresponding screws for fixing the feed-through terminal blocks are supplied as standard.
For corresponding rivets for fixing the feed-through terminal blocks, see Catalog 5.

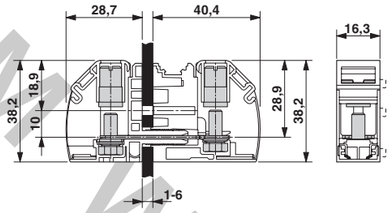
Accessories

For all types	Type	
	Screwdriver **SZS 0,6 x 3,5** **Order No.** **1205053**	
For RW 5 .../S		
	Flange plate **RW 5-F** **Order No.** **3075155**	
For RWV 5 .../S		
	Flange plate **RWV 5-F** **Order No.** **3075317**	



Feed-through terminal blocks, horizontal conductor connection

Dimensional drawing



Drilling diagram

* Only when using the **RW...–F** flange plate

Ordering data

Description	Type	Order No.	Pcs. / Pkt.
	Feed-through terminal block		
	RW 5	**3073584**	10
	Feed-through terminal block, with engagement pin		
	RW 5/S	**3073597**	10

ZB 16.../ZBF 16... marking material for marking the center groove (see Catalog 5)
ZB 12.../ZBF 12... marking material for marking the lateral groove (see Catalog 5)
TMT (EX9,5)R marking material (see online catalog)

Technical data

Technical data in accordance to IEC / DIN VDE				
Current/conductor cross section	[A] / [mm²]	76 / 16 // 76 / 16		
Rated voltage	[V]	1000		
Connection capacity, DIN 46234				
Cable lugs, DIN 46234	[mm²]	0.5 - 16		
Connection bolt / hole diameter / width	[mm]	5 / 5.3 / 11		
Connection capacity DIN 46235				
Cable lugs DIN 46235	[mm²]	6 - 10		
Connection bolt / hole diameter / width	[mm]	5 / 5.3 / 9		
Connection capacity, DIN 46237				
Cable lugs DIN 46237	[mm²]	1 - 6		
Connection bolt / hole diameter / width	[mm]	5 / 5.3 / 10		
Color code	red	1.00 mm²		
	blue	2.50 mm²		
	yellow	6.00 mm²		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	1000	1000	1000
Rated surge voltage	[kV]	8	8	8
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	600	600	-
Nominal current	[A]	65	65	-
Connection capacity AWG	AWG	26 - 6	26 - 6	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Bolt thread/tightening torque	- / [Nm]	M5 / 2.5 - 3		
Insulation material		PA		
Inflammability class according to UL 94		V0		
Panel thickness	[mm]	1 - 6		

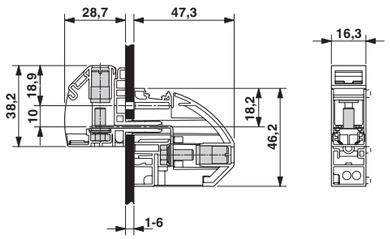
Feed-through terminal blocks for high-current applications

(Molded) feed-through terminal blocks with horizontal, vertical bolt connection, RW series



Feed-through terminal blocks, vertical conductor connection

Dimensional drawing



Drilling diagram

* Only when using the **RW...–F** flange plate

Ordering data

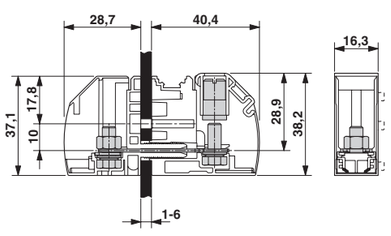
Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
RWV 5	**3073746**	10
Feed-through terminal block, with engagement pin		
RWV 5/S	**3073759**	10

ZB 16.../ZBF 16... marking material for marking the center groove (see Catalog 5)
ZB 12.../ZBF 12... marking material for marking the lateral groove (see Catalog 5)
TMT (EX9,5)R marking material (see online catalog)



Molded feed-through terminal blocks, horizontal conductor connection, internal part with M5 bolt connection

Dimensional drawing



Drilling diagram

* Only when using the **RW...–F** flange plate

Ordering data

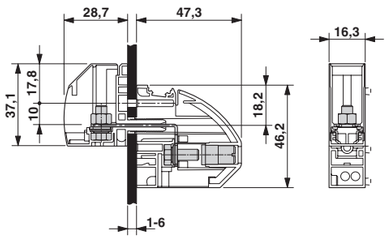
Type	Order No.	Pcs. / Pkt.
Feed-through terminal block, with sponge rubber seal		
RW 5-POT	**3073665**	10
Feed-through terminal block, with engagement pin and sponge rubber seal		
RW 5-POT/S	**3073678**	10

ZB 16.../ZBF 16... marking material for marking the center groove (see Catalog 5)
ZB 12.../ZBF 12... marking material for marking the lateral groove (see Catalog 5)
TMT (EX9,5)R marking material (see online catalog)



Molded feed-through terminal blocks, vertical conductor connection, internal part with M5 bolt connection

Dimensional drawing



Drilling diagram

* Only when using the **RW...–F** flange plate

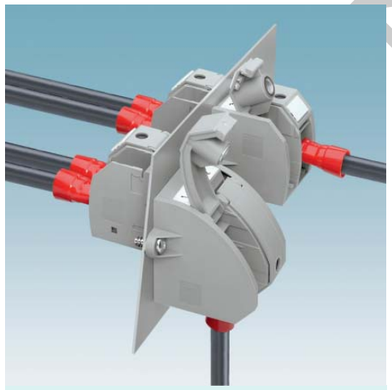
Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block, with sponge rubber seal		
RWV 5-POT	**3073788**	10
Feed-through terminal block, with engagement pin and sponge rubber seal		
RWV 5-POT/S	**3073791**	10

ZB 16.../ZBF 16... marking material for marking the center groove (see Catalog 5)
TMT (EX9,5)R marking material (see online catalog)

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With captive cover nut up to 125 A/35 mm²



- Quick and easy conductor connection thanks to hinged cover flaps with captive clamping nut
- Both terminal halves can be easily assembled by simply snapping them together
- Automatic panel thickness compensation
- Easy grouping with engagement pin versions
- Molded versions ensure maximum tightness of seal
- Touch-proof insulating housing in modern design
- Spring-loaded spacers protect the bolt connection against loosening

Notes:
Inside = left side of portrait photos Outside = right side of portrait photos
Corresponding screws for fixing the feed-through terminal blocks are supplied as standard.
For corresponding rivets for fixing the feed-through terminal blocks, see Catalog 5.



Feed-through terminal blocks, horizontal conductor connection



Feed-through terminal blocks, vertical conductor connection



Molded feed-through terminal blocks, horizontal conductor connection, internal part with M8 bolt connection



Molded feed-through terminal blocks, vertical conductor connection, internal part with M8 bolt connection

Accessories

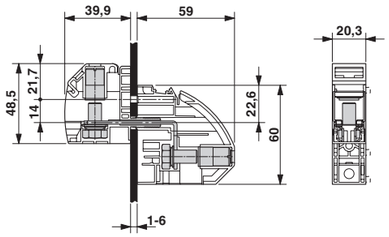
For all types	Type	
	Screwdriver **SZS 1,0 x 4,0** **Order No.** **1205066**	
For RW 8 .../S		
	Flange plate **RW 8-F** **Order No.** **3075171**	
For RWV 8 .../S		
	Flange plate **RWV 8-F** **Order No.** **3075333**	

Dimensional drawing

Drilling diagram

* Only when using the **RW...–F** flange plate

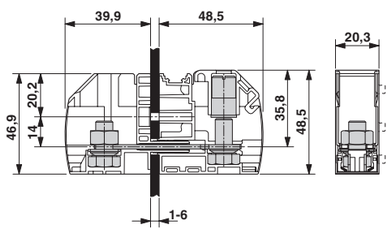
Dimensional drawing



Drilling diagram

* Only when using the **RW...–F** flange plate

Dimensional drawing

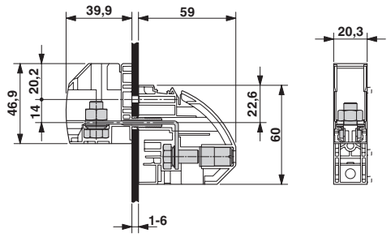


Drilling diagram

* Only when using the **RW...–F** flange plate

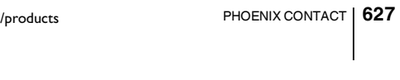


Dimensional drawing



Drilling diagram

* Only when using the **RW...–F** flange plate



Technical data

Technical data in accordance to IEC / DIN VDE				
Current/conductor cross section	[A] / [mm²]	125 / 35 // 125 / 35		
Rated voltage	[V]	1000		
Connection capacity, DIN 46234				
Cable lugs, DIN 46234	[mm²]	2.5 - 35		
Connection bolt / hole diameter / width	[mm]	8 / 8.4 / 16		
Connection capacity DIN 46235				
Cable lugs DIN 46235	[mm²]	16 - 25		
Connection bolt / hole diameter / width	[mm]	8 / 8.4 / 14		
Connection capacity, DIN 46237				
Cable lugs DIN 46237	[mm²]	2.5 - 6		
Connection bolt / hole diameter / width	[mm]	8 / 8.4 / 14		
Color code	red	-		
	blue	2.50 mm²		
	yellow	6.00 mm²		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	1000	1000	1000
Rated surge voltage	[kV]	8	8	8
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	600	600	-
Nominal current	[A]	115	115	-
Connection capacity AWG	AWG	14 - 2	14 - 2	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Bolt thread/tightening torque	- / [Nm]	M8 / 4.5 - 5		
Insulation material		PA		
Inflammability class according to UL 94		V0		
Panel thickness	[mm]	1 - 6		

Description

Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
RW 8	**3073607**	10
Feed-through terminal block, with engagement pin		
RW 8/S	**3073610**	10

ZB 20,3 marking material for labeling the center groove (see online catalog)
ZB 16.../ZBF 16... marking material for marking the lateral groove (see Catalog 5)
TMT (EX9,5)R marking material (see online catalog)

Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
RWV 8	**3073762**	10
Feed-through terminal block, with engagement pin		
RWV 8/S	**3073775**	10

ZB 20,3 marking material for labeling the center groove (see online catalog)
ZB 16.../ZBF 16... marking material for marking the lateral groove (see Catalog 5)
TMT (EX9,5)R marking material (see online catalog)

Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block, with sponge rubber seal		
RW 8-POT	**3073681**	10
Feed-through terminal block, with engagement pin and sponge rubber seal		
RW 8-POT/S	**3073694**	10

ZB 20,3 marking material for labeling the center groove (see online catalog)
ZB 16.../ZBF 16... marking material for marking the lateral groove (see Catalog 5)
TMT (EX9,5)R marking material (see online catalog)

Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block, with sponge rubber seal		
RWV 8-POT	**3073801**	10
Feed-through terminal block, with engagement pin and sponge rubber seal		
RWV 8-POT/S	**3073814**	10

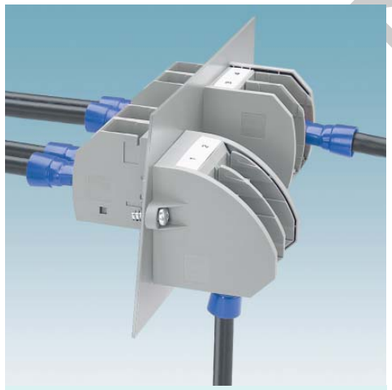
ZB 20,3 marking material for labeling the center groove (see online catalog)

TMT (EX9,5)R marking material (see online catalog)

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(Molded) feed-through terminal blocks with horizontal, vertical bolt connection, RW series

In open housing up to 76 A/16 mm²



- Both terminal halves can be easily assembled by simply snapping them together
- Automatic panel thickness compensation
- Easy grouping with engagement pin versions
- Molded versions ensure maximum tightness of seal
- Spring-loaded spacers protect the bolt connection against loosening

Notes:
Inside = left side of portrait photos Outside = right side of portrait photos
Corresponding screws for fixing the feed-through terminal blocks are supplied as standard.
For corresponding rivets for fixing the feed-through terminal blocks, see Catalog 5.

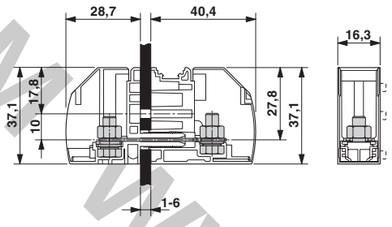
Accessories

For all types	Type	
	Socket wrench **SHN 8** **Order No.** **1209868**	
For RWO 5 .../S		
	Flange plate **RW 5-F** **Order No.** **3075155**	
For RWOV 5 .../S		
	Flange plate **RWV 5-F** **Order No.** **3075317**	



Feed-through terminal blocks, horizontal conductor connection

Dimensional drawing



Drilling diagram

* Only when using the **RW...–F** flange plate

Ordering data

Description	Type	Order No.	Pcs. / Pkt.
	Feed-through terminal block		
	RWO 5	**3056116**	10
	Feed-through terminal block, with engagement pin		
	RWO 5/S	**3056129**	10

ZB 16.../ZBF 16... marking material for marking the center groove (see Catalog 5)
TMT (EX9,5)R marking material (see online catalog)

Technical data

Technical data in accordance to IEC / DIN VDE				
Current/conductor cross section	[A] / [mm²]	76 / 16 // 76 / 16		
Rated voltage	[V]	1000		
Connection capacity, DIN 46234				
Cable lugs, DIN 46234	[mm²]	0.5 - 16		
Connection bolt / hole diameter / width	[mm]	5 / 5.3 / 11		
Connection capacity DIN 46235				
Cable lugs DIN 46235	[mm²]	6 - 10		
Connection bolt / hole diameter / width	[mm]	5 / 5.3 / 9		
Connection capacity, DIN 46237				
Cable lugs DIN 46237	[mm²]	1 - 6		
Connection bolt / hole diameter / width	[mm]	5 / 5.3 / 10		
Color code	red	1.00 mm²		
	blue	2.50 mm²		
	yellow	6.00 mm²		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	1000	1000	1000
Rated surge voltage	[kV]	8	8	8
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	600	600	-
Nominal current	[A]	65	65	-
Connection capacity AWG	AWG	26 - 6	26 - 6	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Bolt thread/tightening torque	- / [Nm]	M5 / 2.5 - 3		
Insulation material		PA		
Inflammability class according to UL 94		V0		
Panel thickness	[mm]	1 - 6		

Feed-through terminal blocks for high-current applications

(Molded) feed-through terminal blocks with horizontal, vertical bolt connection, RW series



Feed-through terminal blocks, vertical conductor connection

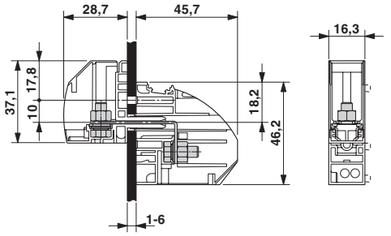


Molded feed-through terminal blocks, horizontal conductor connection, internal part with M5 bolt connection



Molded feed-through terminal blocks, vertical conductor connection, internal part with M5 bolt connection

Dimensional drawing



Drilling diagram

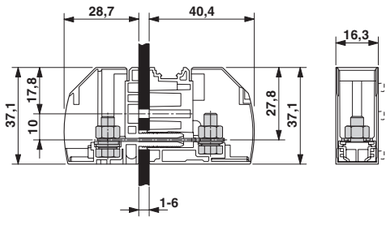
* Only when using the **RW...–F** flange plate

Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
RWOV 5	**3056271**	10
Feed-through terminal block, with engagement pin		
RWOV 5/S	**3056284**	10

ZB 16.../ZBF 16... marking material for marking the center groove (see Catalog 5)
TMT (EX9,5)R marking material (see online catalog)

Dimensional drawing



Drilling diagram

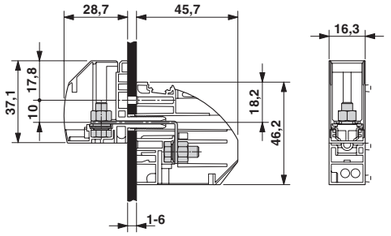
* Only when using the **RW...–F** flange plate

Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block, with sponge rubber seal		
RWO 5-POT	**3056190**	10
Feed-through terminal block, with engagement pin and sponge rubber seal		
RWO 5-POT/S	**3056200**	10

ZB 16.../ZBF 16... marking material for marking the center groove (see Catalog 5)
TMT (EX9,5)R marking material (see online catalog)

Dimensional drawing



Drilling diagram

* Only when using the **RW...–F** flange plate

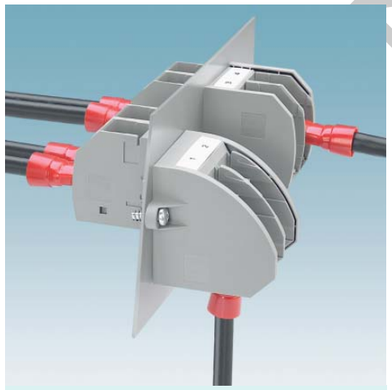
Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block, with sponge rubber seal		
RWOV 5-POT	**3056310**	10
Feed-through terminal block, with engagement pin and sponge rubber seal		
RWOV 5-POT/S	**3056323**	10

ZB 16.../ZBF 16... marking material for marking the center groove (see Catalog 5)
TMT (EX9,5)R marking material (see online catalog)

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In open housing up to 125 A/35 mm²



- Both terminal halves can be easily assembled by simply snapping them together
- Automatic panel thickness compensation
- Easy grouping with engagement pin versions
- Molded versions ensure maximum tightness of seal
- Spring-loaded spacers protect the bolt connection against loosening

Notes:
Inside = left side of portrait photos Outside = right side of portrait photos
Corresponding screws for fixing the feed-through terminal blocks are supplied as standard.
For corresponding rivets for fixing the feed-through terminal blocks, see Catalog 5.



Feed-through terminal blocks, horizontal conductor connection



Feed-through terminal blocks, vertical conductor connection

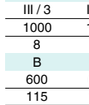


Molded feed-through terminal blocks, horizontal conductor connection, internal part with M8 bolt connection

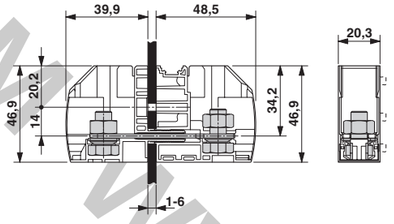


Molded feed-through terminal blocks, vertical conductor connection, internal part with M8 bolt connection

Accessories

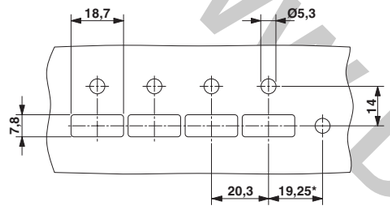
For all types	Type	
	Socket wrench **SHN 13** **Order No.** **1209923**	
For RWO 8 .../S		
	Flange plate **RW 8-F** **Order No.** **3075171**	
For RWOV 8 .../S		
	Flange plate **RWV 8-F** **Order No.** **3075333**	

Dimensional drawing

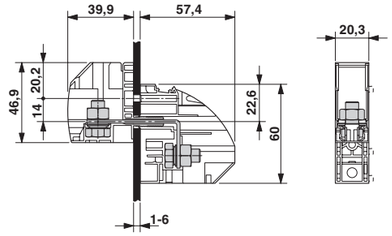


Drilling diagram

* Only when using the **RW...–F** flange plate

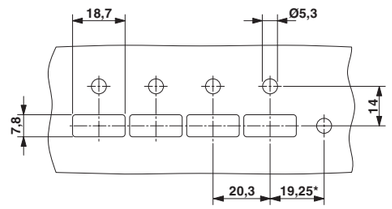


Dimensional drawing

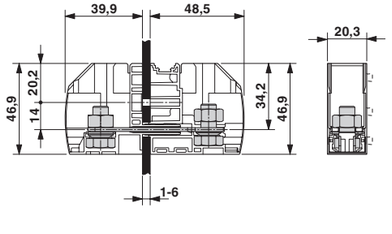


Drilling diagram

* Only when using the **RW...–F** flange plate

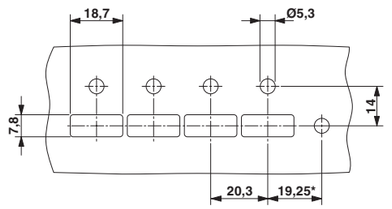


Dimensional drawing

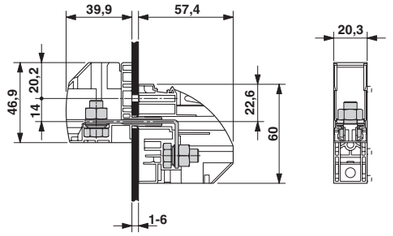


Drilling diagram

* Only when using the **RW...–F** flange plate

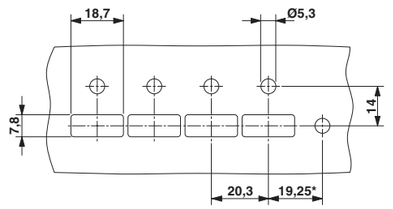


Dimensional drawing



Drilling diagram

* Only when using the **RW...–F** flange plate



Technical data

Technical data in accordance to IEC / DIN VDE				
Current/conductor cross section	[A] / [mm²]	125 / 35 // 125 / 35		
Rated voltage	[V]	1000		
Connection capacity, DIN 46234				
Cable lugs, DIN 46234	[mm²]	2.5 - 35		
Connection bolt / hole diameter / width	[mm]	8 / 8.4 / 16		
Connection capacity DIN 46235				
Cable lugs DIN 46235	[mm²]	16 - 25		
Connection bolt / hole diameter / width	[mm]	8 / 8.4 / 14		
Connection capacity, DIN 46237				
Cable lugs DIN 46237	[mm²]	2.5 - 6		
Connection bolt / hole diameter / width	[mm]	8 / 8.4 / 14		
Color code	red	-		
	blue	2.50 mm²		
	yellow	6.00 mm²		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	1000	1000	1000
Rated surge voltage	[kV]	8	8	8
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	600	600	-
Nominal current	[A]	115	115	-
Connection capacity AWG	AWG	14 - 2	14 - 2	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Bolt thread/tightening torque	- / [Nm]	M8 / 4.5 - 5		
Insulation material		PA		
Inflammability class according to UL 94		V0		
Panel thickness	[mm]	1 - 6		

Description

Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
RWO 8	**3056132**	10
Feed-through terminal block, with engagement pin		
RWO 8/S	**3056145**	10

ZB 20,3 marking material for labeling the center groove (see online catalog)
TMT (EX9,5)R marking material (see online catalog)

Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
RWOV 8	**3056297**	10
Feed-through terminal block, with engagement pin		
RWOV 8/S	**3056307**	10

ZB 20,3 marking material for labeling the center groove (see online catalog)
TMT (EX9,5)R marking material (see online catalog)

Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block, with sponge rubber seal		
RWO 8-POT	**3056213**	10
Feed-through terminal block, with engagement pin and sponge rubber seal		
RWO 8-POT/S	**3056226**	10

ZB 20,3 marking material for labeling the center groove (see online catalog)
TMT (EX9,5)R marking material (see online catalog)

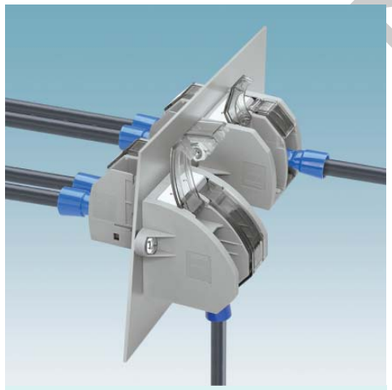
Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block, with sponge rubber seal		
RWOV 8-POT	**3056336**	10
Feed-through terminal block, with engagement pin and sponge rubber seal		
RWOV 8-POT/S	**3056349**	10

ZB 20,3 marking material for labeling the center groove (see online catalog)
TMT (EX9,5)R marking material (see online catalog)

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With transparent cover up to 76 A/16 mm²



- Both terminal halves can be easily assembled by simply snapping them together
- Automatic panel thickness compensation
- Easy grouping with engagement pin versions
- Molded versions ensure maximum tightness of seal
- Touch-proof insulating housing with transparent cover
- Spring-loaded spacers protect the bolt connection against loosening

Notes:
Inside = left side of portrait photos Outside = right side of portrait photos
Corresponding screws for fixing the feed-through terminal blocks are supplied as standard.
For corresponding rivets for fixing the feed-through terminal blocks, see Catalog 5.



Feed-through terminal blocks, horizontal conductor connection



Feed-through terminal blocks, vertical conductor connection



Molded feed-through terminal blocks, horizontal conductor connection, internal part with M5 bolt connection

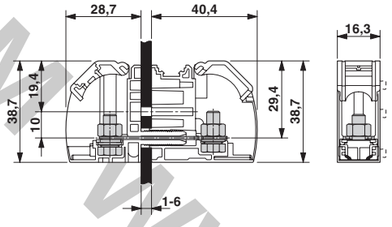


Molded feed-through terminal blocks, vertical conductor connection, internal part with M5 bolt connection

Accessories

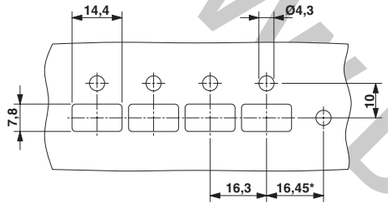
For all types	Type	
	Socket wrench **SHN 8** **Order No.** **1209868**	
For RWO 5 .../S		
	Flange plate **RW 5-F** **Order No.** **3075155**	
For RWOV 5 .../S		
	Flange plate **RWV 5-F** **Order No.** **3075317**	

Dimensional drawing

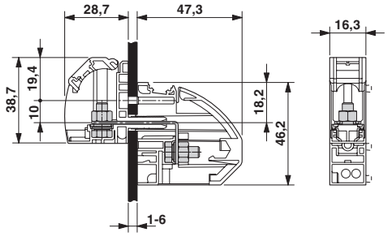


Drilling diagram

* Only when using the **RW...–F** flange plate

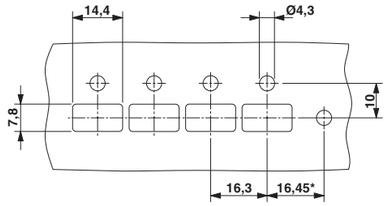


Dimensional drawing

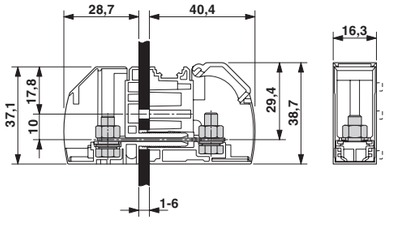


Drilling diagram

* Only when using the **RW...–F** flange plate

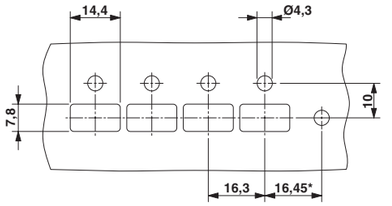


Dimensional drawing

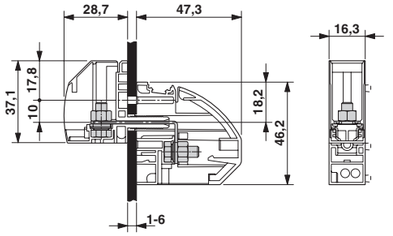


Drilling diagram

* Only when using the **RW...–F** flange plate

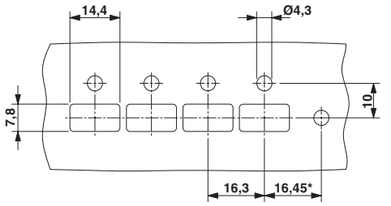


Dimensional drawing



Drilling diagram

* Only when using the **RW...–F** flange plate



Technical data

Technical data in accordance to IEC / DIN VDE				
Current/conductor cross section	[A] / [mm²]	76 / 16 // 76 / 16		
Rated voltage	[V]	1000		
Connection capacity, DIN 46234				
Cable lugs, DIN 46234	[mm²]	0.5 - 16		
Connection bolt / hole diameter / width	[mm]	5 / 5.3 / 11		
Connection capacity DIN 46235				
Cable lugs DIN 46235	[mm²]	6 - 10		
Connection bolt / hole diameter / width	[mm]	5 / 5.3 / 9		
Connection capacity, DIN 46237				
Cable lugs DIN 46237	[mm²]	1 - 6		
Connection bolt / hole diameter / width	[mm]	5 / 5.3 / 10		
Color code	red	1.00 mm²		
	blue	2.50 mm²		
	yellow	6.00 mm²		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	1000	1000	1000
Rated surge voltage	[kV]	8	8	8
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	600	600	-
Nominal current	[A]	65	65	-
Connection capacity AWG	AWG	26 - 6	26 - 6	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Bolt thread/tightening torque	- / [Nm]	M5 / 2.5 - 3		
Insulation material		PA		
Inflammability class according to UL 94		V0		
Panel thickness	[mm]	1 - 6		

Description

Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
RWO 5-TC	**3074910**	10
Feed-through terminal block, with engagement pin		
RWO 5-TC/S	**3074923**	10

ZB 16 marking material for marking the center groove (see Catalog 5)
TMT (EX9,5)R marking material (see online catalog)

Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
RWOV 5-TC	**3075074**	10
Feed-through terminal block, with engagement pin		
RWOV 5-TC/S	**3075087**	10

ZB 16 marking material for marking the center groove (see Catalog 5)
TMT (EX9,5)R marking material (see online catalog)

Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block, with sponge rubber seal		
RWO 5-POT-TC	**3074994**	10
Feed-through terminal block, with engagement pin and sponge rubber seal		
RWO 5-POT-TC/S	**3075003**	10

ZB 16 marking material for marking the center groove (see Catalog 5)
TMT (EX9,5)R marking material (see online catalog)

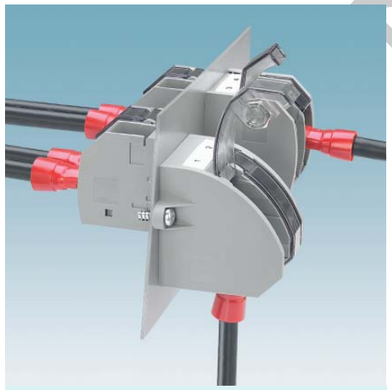
Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block, with sponge rubber seal		
RWOV 5-POT-TC	**3075113**	10
Feed-through terminal block, with engagement pin and sponge rubber seal		
RWOV 5-POT-TC/S	**3075126**	10

ZB 16 marking material for marking the center groove (see Catalog 5)
TMT (EX9,5)R marking material (see online catalog)

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With transparent cover up to 125 A/35 mm²



- Both terminal halves can be easily assembled by simply snapping them together
- Automatic panel thickness compensation
- Easy grouping with engagement pin versions
- Molded versions ensure maximum tightness of seal
- Touch-proof insulating housing with transparent cover
- Spring-loaded spacers protect the bolt connection against loosening

Notes:
Inside = left side of portrait photos Outside = right side of portrait photos
Corresponding screws for fixing the feed-through terminal blocks are supplied as standard.
For corresponding rivets for fixing the feed-through terminal blocks, see Catalog 5.

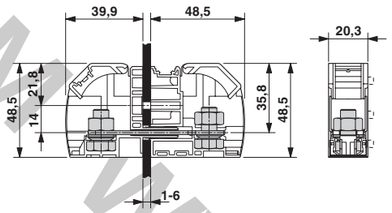
Accessories

For all types	Type	
	Socket wrench **SHN 13** **Order No.** **1209923**	
For RWO 8 .../S		
	Flange plate **RW 8-F** **Order No.** **3075171**	
For RWOV 8 .../S		
	Flange plate **RWV 8-F** **Order No.** **3075333**	



Feed-through terminal blocks, horizontal conductor connection

Dimensional drawing



Drilling diagram

* Only when using the **RW...–F** flange plate

Technical data

Technical data in accordance to IEC / DIN VDE				
Current/conductor cross section	[A] / [mm²]	125 / 35 // 125 / 35		
Rated voltage	[V]	1000		
Connection capacity, DIN 46234				
Cable lugs, DIN 46234	[mm²]	2.5 - 35		
Connection bolt / hole diameter / width	[mm]	8 / 8.4 / 16		
Connection capacity DIN 46235				
Cable lugs DIN 46235	[mm²]	16 - 25		
Connection bolt / hole diameter / width	[mm]	8 / 8.4 / 14		
Connection capacity, DIN 46237				
Cable lugs DIN 46237	[mm²]	2.5 - 6		
Connection bolt / hole diameter / width	[mm]	8 / 8.4 / 14		
Color code	red	-		
	blue	2.50 mm²		
	yellow	6.00 mm²		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	1000	1000	1000
Rated surge voltage	[kV]	8	8	8
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	600	600	-
Nominal current	[A]	115	115	-
Connection capacity AWG	AWG	14 - 2	14 - 2	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Bolt thread/tightening torque	- / [Nm]	M8 / 4.5 - 5		
Insulation material		PA		
Inflammability class according to UL 94		V0		
Panel thickness	[mm]	1 - 6		

Description

Ordering data

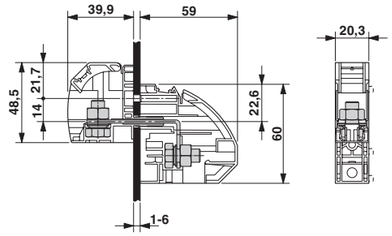
Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
RWO 8-TC	**3074936**	10
Feed-through terminal block, with engagement pin		
RWO 8-TC/S	**3074949**	10

ZB 20,3 marking material for labeling the center groove (see online catalog)
TMT (EX9,5)R marking material (see online catalog)



Feed-through terminal blocks, vertical conductor connection

Dimensional drawing



Drilling diagram

* Only when using the **RW...–F** flange plate

Ordering data

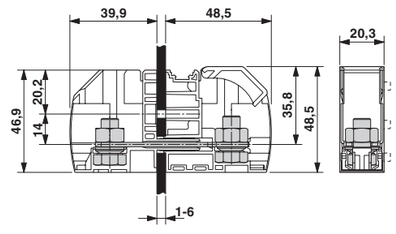
Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
RWOV 8-TC	**3075090**	10
Feed-through terminal block, with engagement pin		
RWOV 8-TC/S	**3075100**	10

ZB 20,3 marking material for labeling the center groove (see online catalog)
TMT (EX9,5)R marking material (see online catalog)



Molded feed-through terminal blocks, horizontal conductor connection, internal part with M8 bolt connection

Dimensional drawing



Drilling diagram

* Only when using the **RW...–F** flange plate

Ordering data

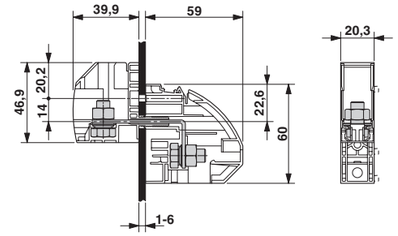
Type	Order No.	Pcs. / Pkt.
Feed-through terminal block, with sponge rubber seal		
RWO 8-POT-TC	**3075016**	10
Feed-through terminal block, with engagement pin and sponge rubber seal		
RWO 8-POT-TC/S	**3075029**	10

ZB 20,3 marking material for labeling the center groove (see online catalog)
TMT (EX9,5)R marking material (see online catalog)



Molded feed-through terminal blocks, vertical conductor connection, internal part with M8 bolt connection

Dimensional drawing



Drilling diagram

* Only when using the **RW...–F** flange plate

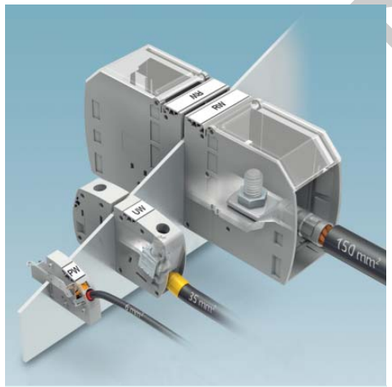
Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block, with sponge rubber seal		
RWOV 8-POT-TC	**3075139**	10
Feed-through terminal block, with engagement pin and sponge rubber seal		
RWOV 8-POT-TC/S	**3075142**	10

ZB 20,3 marking material for labeling the center groove (see online catalog)
TMT (EX9,5)R marking material (see online catalog)

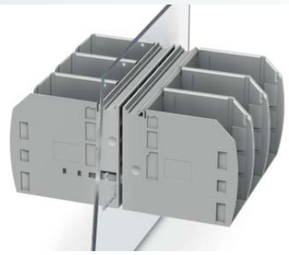
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In open housing up to 309 A/150 mm²



- Both terminal halves can be easily assembled by simply snapping them together
- Automatic panel thickness compensation
- Easy grouping with engagement pin versions
- Touch-proof insulating housing with transparent cover
- Spring-loaded spacers protect the bolt connection against loosening

Notes:
Inside = left side of portrait photos Outside = right side of portrait photos
Corresponding screws for fixing the feed-through terminal blocks are supplied as standard.
For corresponding rivets for fixing the feed-through terminal blocks, see Catalog 5.



With open housing

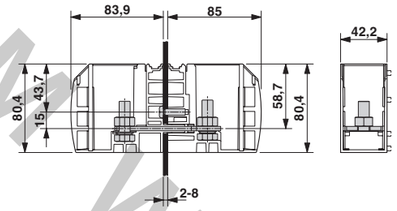


With transparent cover

Accessories

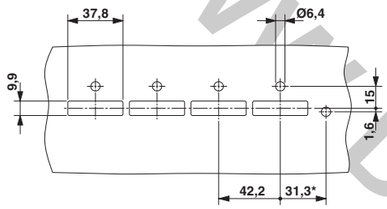
For all types	Type	
	Flange plate **RW 10-F** **Order No.** **3075197**	

Dimensional drawing

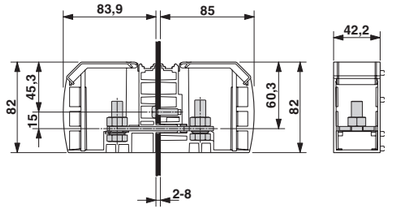


Drilling diagram

* Only when using the **RW...–F** flange plate

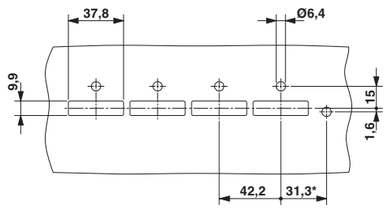


Dimensional drawing



Drilling diagram

* Only when using the **RW...–F** flange plate



Technical data

Technical data in accordance to IEC / DIN VDE				
Current/conductor cross section	[A] / [mm²]	309 / 150 // 309 / 150		
Rated voltage	[V]	1000		
Connection capacity, DIN 46234				
Cable lugs, DIN 46234	[mm²]	6 - 150		
Connection bolt / hole diameter / width	[mm]	10 / 10.5 / 30		
Connection capacity DIN 46235				
Cable lugs DIN 46235	[mm²]	10 - 95		
Connection bolt / hole diameter / width	[mm]	10 / 10.5 / 28		
Connection capacity, DIN 46237				
Cable lugs DIN 46237	[mm²]	- 6		
Connection bolt / hole diameter / width	[mm]	10 / 10.5 / 18		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	1000	1000	1000
Rated surge voltage	[kV]	8	8	8
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	-	-	-
Nominal current	[A]	-	-	-
Connection capacity AWG	AWG	-	-	-
General data				
Bolt thread/tightening torque	- / [Nm]	M10 / 10 - 20		
Insulation material		PA		
Inflammability class according to UL 94		V0		
Panel thickness	[mm]	2 - 8		

Description

Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
RWO 10	**3056158**	5
Feed-through terminal block, with engagement pin		
RWO 10/S	**3056161**	5

ZB 21,1 marking material for labeling the center groove (see online catalog)
TMT (EX9,5)R marking material (see online catalog)

Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block		
RWO 10-TC	**3074952**	5
Feed-through terminal block, with engagement pin		
RWO 10-TC/S	**3074965**	5

ZB 21,1 marking material for labeling the center groove (see online catalog)
TMT (EX9,5)R marking material (see online catalog)

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DFK 4 with screw connection



- Universal screw connection with screw locking
- The feed-through terminal blocks snap into the panel cutout automatically
- Touch-proof insulating housing
- PE terminal block with ground function based on IEC 60947-7-2
- The fuse terminal blocks are available for 5 x 20 mm and 6.3 x 32 mm cartridge fuse inserts

Notes:

Inside = left side of portrait photos
Outside = right side of portrait photos

Current and voltage data for slip-on connections in acc. with EN 61210 are also dependent on nominal size, material, insulation of the slip-on sleeve and conductor cross section.

Accessories

For all types	Type	
	Screwdriver **SZS 0,6 x 3,5** **Order No.** **1205053**	
	Blind cover, width 6 mm B/DFK **Order No.** **0706045**	
	Separating plate TS-DFK **Order No.** **0706210**	
Only for DFK 4		
	Insertion bridge **EB 2-6** **Order No.** **0201155**	
	Insertion bridge **EB 3-6** **Order No.** **0201142**	
	Insertion bridge EB 10-6 **Order No.** **0201139**	

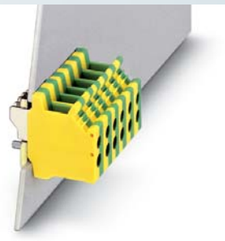
Technical data

		DFK 4			DFK 4-PE			DFK 4-SI(5X20) BK		
Technical data in accordance to IEC / DIN VDE										
Current/conductor cross section	[A] / [mm²]	17.5 / 6 // 17.5 / 1.5			17.5 / 6 // 17.5 / 4			6.3 / 6 // 6.3 / 1.5		
Rated voltage	[V]	400			400			400		
Connection capacity										
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 6 / 0.2 - 4 / 24 - 10			0.2 - 6 / 0.2 - 4 / 24 - 10			0.2 - 6 / 0.2 - 4 / 24 - 10		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 4			0.25 - 4			0.25 - 4		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 2.5			0.25 - 2.5			0.25 - 2.5		
Multi-conductor connection capacity (two conductors with the same cross section)										
Solid / stranded	[mm²]	0.2 - 1.5 / 0.2 - 1.5			0.2 - 1.5 / 0.2 - 1.5			0.2 - 1.5 / 0.2 - 1.5		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 1.5			0.25 - 1.5			0.25 - 1.5		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 2.5			0.5 - 2.5			0.5 - 2.5		
Cross section with insertion bridge (solid/stranded)	[mm²]	- 4 / - 4			- / -			- / -		
Insulation coordination										
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	400	1000	1000						
Rated surge voltage	[kV]	6	6	6						
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	250	-	300	-	-	-	250	-	300
Nominal current	[A]	15	-	15	-	-	-	8	-	8
Connection capacity AWG	AWG	30 - 10	-	30 - 10	-	-	-	30 - 10	-	30 - 10
Approval data (CSA)	Use Group	B	C	D	B	C	D	B	C	D
Nominal voltage	[V]	-	-	-	-	-	-	250	-	300
Nominal current	[A]	-	-	-	-	-	-	8	-	8
Connection capacity AWG	AWG	-	-	-	-	-	-	28 - 10	-	28 - 10
General data										
Stripping length	[mm]	8			8			8		
Terminal sleeve: Thread / Torque	- / [Nm]	M3 / 0.6 - 0.8			M3 / 0.6 - 0.8			M3 / 0.6 - 0.8		
Insulation material		PA			PA			PA		
Inflammability class according to UL 94		V2			V2			V2		

Description	



Feed-through terminal blocks, solder/2.8 mm spade connection inside

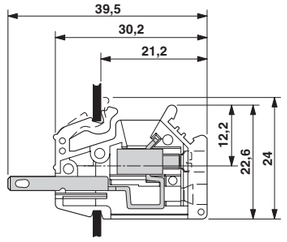


Ground feed-through terminal blocks

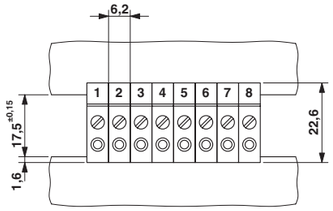


Fuse feed-through terminal blocks for cartridge fuse insert, solder/2.8 mm spade connection inside

Dimensional drawing



Drilling diagram

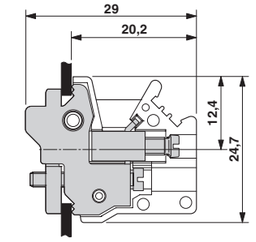


Ordering data

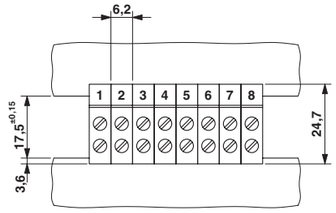
Type	Order No.	Pcs. / Pkt.
Feed-through terminal block, for 1.5 mm thick sheet metal		
DFK 4	0708357	50
Feed-through terminal block, for 2.5 mm thick sheet metal		
DFK/DP-4	0708616	50

ZB 6... marking material for marking the lateral groove (see Catalog 5)
UC-TM 6 marking material for marking the lateral groove (see Catalog 5)

Dimensional drawing



Drilling diagram

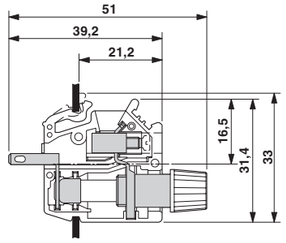


Ordering data

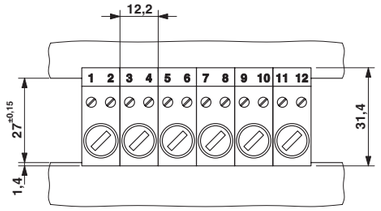
Type	Order No.	Pcs. / Pkt.
PE ground terminal block, for 1.5 mm thick sheet metal		
DFK 4-PE	0708315	50

ZB 6... marking material for marking the lateral groove (see Catalog 5)
UC-TM 6 marking material for marking the lateral groove (see Catalog 5)

Dimensional drawing



Drilling diagram



Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through fuse terminal block, for 5 x 20 cartridge fuse inserts		
DFK 4-SI(5X20) BK	0709301	50
Feed-through fuse terminal block, for 6.3 x 32 cartridge fuse inserts		
DFK 4-SI(6,3X32) BK	0708344	50

ZB 6... marking material for marking the lateral groove (see Catalog 5)
UC-TM 6 marking material for marking the lateral groove (see Catalog 5)

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DFK 5-9,5 with screw connection



- Universal screw connection with screw locking
- Easy fixing using plastic knurled nut
- Touch-proof insulating housing

Notes:

Inside = left side of portrait photos
Outside = right side of portrait photos

Accessories

For all types	Type	
	Screwdriver **SZS 0,6 x 3,5** **Order No.** **1205053**	

Technical data

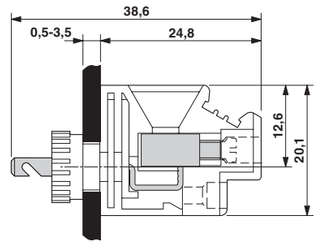
Technical data in accordance to IEC / DIN VDE				
Current/conductor cross section	[A] / [mm²]	17.5 / 6 // 17.5 / 1.5		
Rated voltage	[V]	690		
Connection capacity				
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 6 / 0.2 - 4 / 24 - 10		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 4		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 4		
Multi-conductor connection capacity (two conductors with the same cross section)				
Solid / stranded	[mm²]	0.2 - 1.5 / 0.2 - 2.5		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 1.5		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 2.5		
Cross section with insertion bridge (solid/stranded)	[mm²]	- / -		
Insulation coordination				
Surge voltage category / pollution degree		III / 3	III / 2	II / 2
Rated insulation voltage	[V]	690	1000	1000
Rated surge voltage	[kV]	6	6	6
Approval data (UL/CUL)	Use Group	B	C	D
Nominal voltage	[V]	300	300	600
Nominal current	[A]	30	30	5
Connection capacity AWG	AWG	30 - 10	30 - 10	30 - 10
Approval data (CSA)	Use Group	B	C	D
Nominal voltage	[V]	300	300	600
Nominal current	[A]	30	30	5
Connection capacity AWG	AWG	22 - 10	22 - 10	22 - 10
General data				
Stripping length	[mm]	14		
Terminal sleeve: Thread / Torque	- / [Nm]	M3 / 0.6 - 0.8		
Insulation material		PA		
Inflammability class according to UL 94		V2		
Panel thickness	[mm]	0.5 - 3.5		

Feed-through terminal blocks for high-current applications
Special designs, feed-through terminal blocks with screw connection

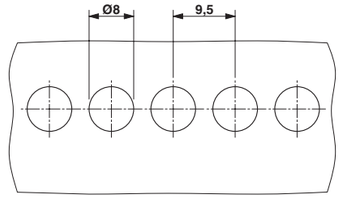


Feed-through terminal blocks, solder/2.8 mm spade connection inside

Dimensional drawing



Drilling diagram



Description

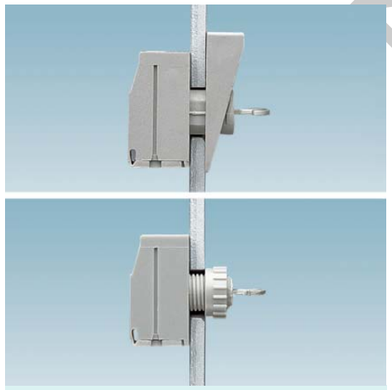
Ordering data

Type	Order No.	Pcs. / Pkt.
Feed-through terminal block, for sheet metal 0.5 - 3.5 mm thick		
DFK 5-9,5	**0706605**	50

ZB 6... marking material for marking the lateral groove (see Catalog 5)
UC-TM 6 marking material for marking the lateral groove (see Catalog 5)

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VDFK with screw connection for molding



- Universal screw connection with screw locking
- Terminal blocks can be grouped
- Easy fixing using plastic knurled nut or quick mounting wedge
- Touch-proof insulating housing
- Spacer plates increase air and creepage distances

Notes:

Inside = left side of portrait photos
Outside = right side of portrait photos

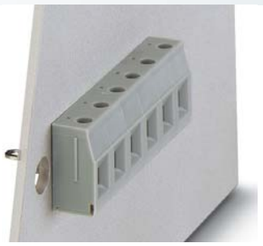
Accessories

For all types	Type	
	Screwdriver **SZS 0,6 x 3,5** **Order No.** **1205053**	
	Spacer plate, 4 mm thick **DP-VDFK 4/4** **Order No.** **0717144**	

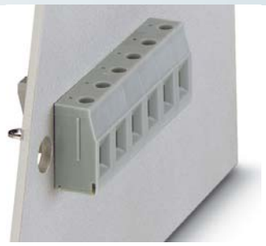
Technical data

		VDFK 4			VDFK 4/K		
Technical data in accordance to IEC / DIN VDE							
Current/conductor cross section	[A] / [mm²]	32 / 6 // 32 / 4			32 / 6 // 32 / 4		
Rated voltage	[V]	500			500		
Connection capacity							
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 6 / 0.2 - 4 / 24 - 10			0.2 - 6 / 0.2 - 4 / 24 - 10		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 4			0.25 - 4		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 4			0.25 - 4		
Multi-conductor connection capacity (two conductors with the same cross section)							
Solid / stranded	[mm²]	0.2 - 1.5 / 0.2 - 1.5			0.2 - 1.5 / 0.2 - 1.5		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 1.5			0.25 - 1.5		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 1.5			0.5 - 1.5		
Cross section with insertion bridge (solid/stranded)	[mm²]	- / -			- / -		
Insulation coordination							
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	500	1000	1000	500	1000	1000
Rated surge voltage	[kV]	6	6	6	6	6	6
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	300	150	300	300	150	300
Nominal current	[A]	30	30	10	30	30	10
Connection capacity AWG	AWG	30 - 10	30 - 10	30 - 10	30 - 10	30 - 10	30 - 10
Approval data (CSA)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	300	-	300	300	-	300
Nominal current	[A]	30	-	10	30	-	10
Connection capacity AWG	AWG	28 - 10	-	28 - 10	28 - 10	-	28 - 10
General data							
Stripping length	[mm]	8			8		
Terminal sleeve: Thread / Torque	- / [Nm]	M3 / 0.6 - 0.8			M3 / 0.6 - 0.8		
Insulation material		PA			PA		
Inflammability class according to UL 94		V0			V0		

Feed-through terminal blocks for high-current applications
Special designs, feed-through terminal blocks with screw connection

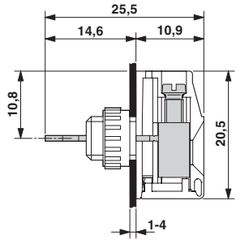


Molded feed-through terminal blocks, with solder connection and knurled nut inside



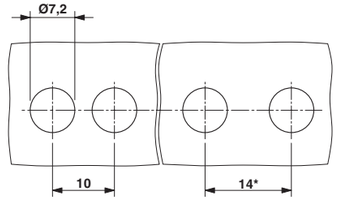
Molded feed-through terminal blocks, with solder connection and securing wedge inside

Dimensional drawing



Drilling diagram

* Dimensions when using the **DP-VDFK 4/4** spacer plate



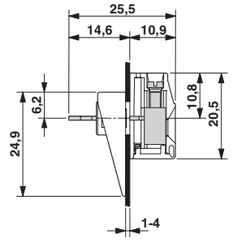
Description

Ordering data

Type	Order No.	Pcs. / Pkt.
Molded feed-through terminal block, for housing panels 1 ... 4 mm thick		
VDFK 4	**0708250**	50
Molded feed-through terminal block, for 4...8 mm		
VDFK 4-DP	**0708360**	50

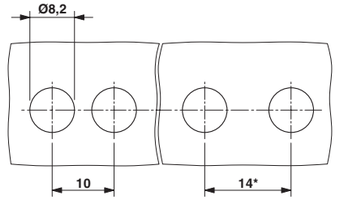
BN-ZB 10 marking material (see online catalog)

Dimensional drawing



Drilling diagram

* Dimensions when using the **DP-VDFK 4/4** spacer plate



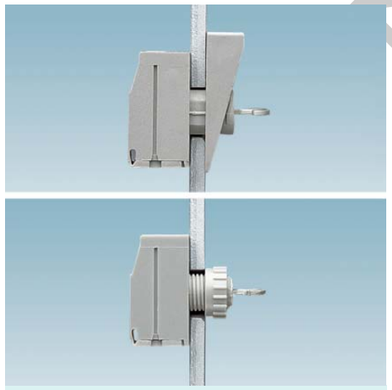
Ordering data

Type	Order No.	Pcs. / Pkt.
Molded feed-through terminal block, for housing panels 1 ... 4 mm thick		
VDFK 4/K	**0709233**	50
Molded feed-through terminal block, for housing panels 4...7 mm thick		
VDFK 4/K-DP	**0709220**	50

BN-ZB 10 marking material (see online catalog)

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VDFK with screw connection for molding



- Universal screw connection with screw locking
- Terminal blocks can be grouped
- Easy fixing using plastic knurled nut or quick mounting wedge
- Touch-proof insulating housing
- Strain relief can be snapped on as an option
- Spacer plates increase air and creepage distances

Notes:

Inside = left side of portrait photos
Outside = right side of portrait photos

Accessories

For all types	Type	
	Screwdriver **SZS 1,0 x 4,0** **Order No.** **1205066**	
	Spacer plate, 4 mm thick **DP-VDFK 6/4** **Order No.** **0717157**	
	Strain relief **VDFK 6 ZEL** **Order No.** **0711072**	

Technical data

		VDFK 6			VDFK 6/K		
Technical data in accordance to IEC / DIN VDE							
Current/conductor cross section	[A] / [mm²]	57 / 10 // 41 / 6			57 / 10 // 41 / 6		
Rated voltage	[V]	500			500		
Connection capacity							
Solid / stranded	[mm²] / [mm²] / AWG	0.2 - 10 / 0.2 - 6 / 24 - 8			0.2 - 10 / 0.2 - 6 / 24 - 8		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 6			0.25 - 6		
Stranded with ferrules with plastic sleeve	[mm²]	0.25 - 6			0.25 - 6		
Multi-conductor connection capacity (two conductors with the same cross section)							
Solid / stranded	[mm²]	0.2 - 4 / 0.2 - 4			0.2 - 4 / 0.2 - 4		
Stranded with ferrules without plastic sleeve	[mm²]	0.25 - 2.5			0.25 - 2.5		
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5 - 4			0.5 - 4		
Cross section with insertion bridge (solid/stranded)	[mm²]	- / -			- / -		
Insulation coordination							
Surge voltage category / pollution degree		III / 3	III / 2	II / 2	III / 3	III / 2	II / 2
Rated insulation voltage	[V]	500	1000	1000	500	1000	1000
Rated surge voltage	[kV]	6	6	6	6	6	6
Approval data (UL/CUL)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	300	150	300	300	150	300
Nominal current	[A]	50	50	10	50	50	10
Connection capacity AWG	AWG	26 - 8	26 - 8	26 - 8	26 - 8	26 - 8	26 - 8
Approval data (CSA)	Use Group	B	C	D	B	C	D
Nominal voltage	[V]	300	150	300	300	150	300
Nominal current	[A]	50	50	10	50	50	10
Connection capacity AWG	AWG	26 - 8	26 - 8	26 - 8	26 - 8	26 - 8	26 - 8
General data							
Stripping length	[mm]	9			9		
Terminal sleeve: Thread / Torque	- / [Nm]	M4 / 1.5 - 1.8			M4 / 1.5 - 1.8		
Insulation material		PA			PA		
Inflammability class according to UL 94		V0			V0		

Feed-through terminal blocks for high-current applications
Special designs, feed-through terminal blocks with screw connection

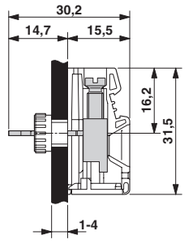


Molded feed-through terminal blocks, with solder connection and knurled nut inside



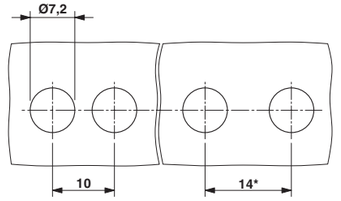
Molded feed-through terminal blocks, with solder connection and securing wedge inside

Dimensional drawing



Drilling diagram

* Dimensions when using the **DP-VDFK 6/4** spacer plate

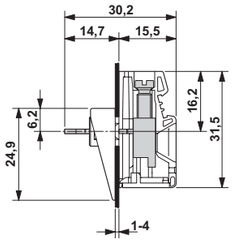


Ordering data

Type	Order No.	Pcs. / Pkt.
Molded feed-through terminal block, for housing panels 1 ... 4 mm thick		
VDFK 6	**0711027**	50
Molded feed-through terminal block, for 4...8 mm		
VDFK 6-DP	**0711014**	50

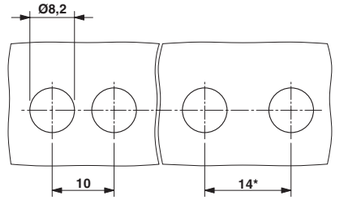
UC-TM 10 marking material for marking the lateral groove (see Catalog 5)
ZB 10 marking material for marking the lateral groove (see Catalog 5)
BN-ZB 10 marking material (see online catalog)

Dimensional drawing



Drilling diagram

* Dimensions when using the **DP-VDFK 6/4** spacer plate



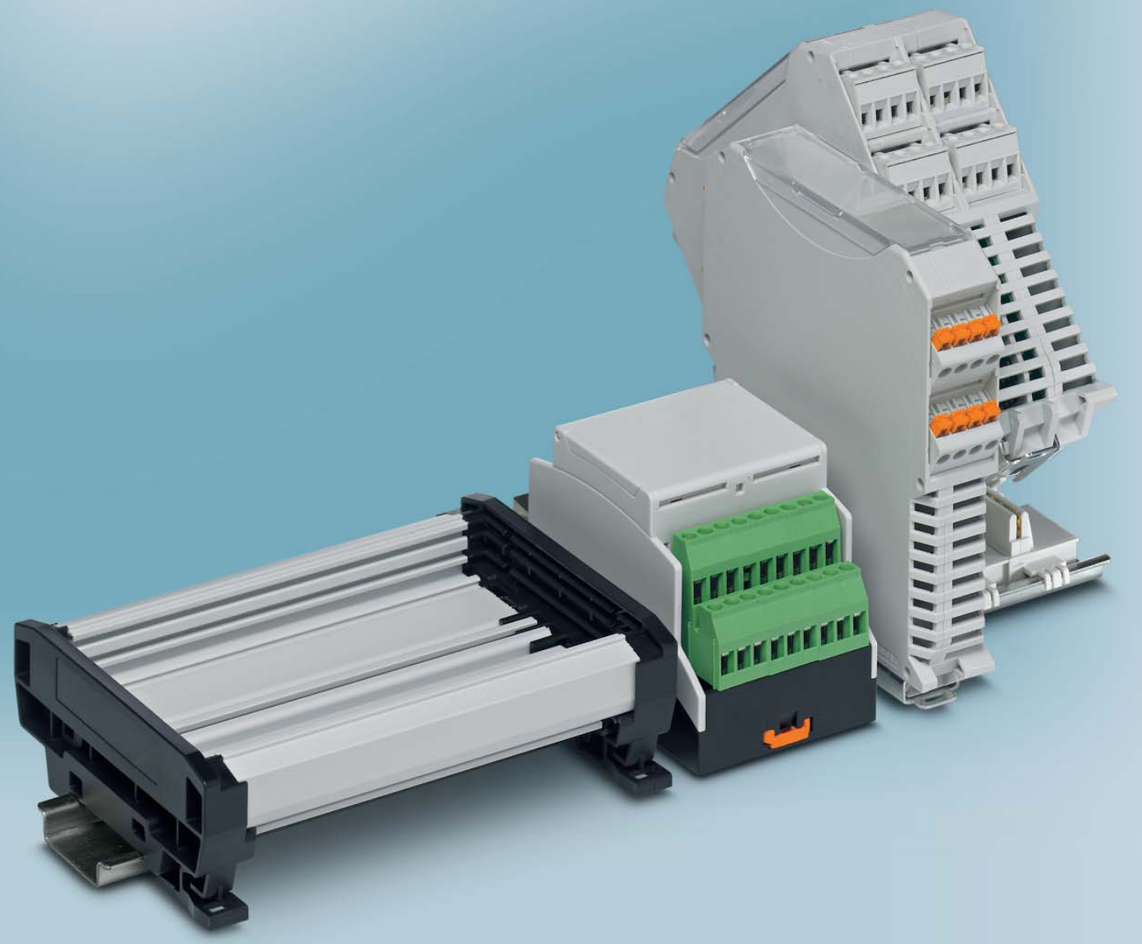
Ordering data

Type	Order No.	Pcs. / Pkt.
Molded feed-through terminal block, for housing panels 1 ... 4 mm thick		
VDFK 6/K	**0711056**	50
Molded feed-through terminal block, for housing panels 4...7 mm thick		
VDFK 6/K-DP	**0711043**	50

UC-TM 10 marking material for marking the lateral groove (see Catalog 5)
ZB 10 marking material for marking the lateral groove (see Catalog 5)
BN-ZB 10 marking material (see online catalog)

Description

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Electronics housing

Phoenix Contact component housings transform the assembled PCB into a shock-proof and dust-proof electronics module. The housings are mounted quickly and safely on standard 35 mm DIN rails. Apart from a few exceptions, the connection terminal blocks can be fitted and machine-soldered during PCB assembly.

The panel mounting bases consist of modular components, which form a DIN-rail mountable chassis for accommodating the PCB. The surface of the PCB is freely accessible, making it particularly suitable for bulky operating elements or large plug-in connectors. If a device cannot be mounted directly on a standard DIN rail, Phoenix Contact mounting plates are available for adaptation.

Whether screw, spring-cage or fast connection, individual housing with customized connection technology is no problem for Phoenix Contact. We will develop and produce your special housing solution in accordance with your particular design specifications. From modifying a standard product through to developing a new solution, we provide expert support throughout.

Customer-specific solutions	**648**
Modular component housings for industrial electronics	**650**
ME modular component housing	**652**
ME BUS modular component housings	**662**
ME TBUS modular component housing	**666**
TBUS DIN rail connectors	**676**
ME MAX modular component housing	**678**
Building installation housings according to DIN EN 43880	**694**
BC installation component housing	**698**
Basic housings for universal use	**704**
EMG system component housing	**708**
EG receptacle-type component housing	**718**
UEG universal component housing	**722**
UEGM universal component housings	**724**
UEGH universal component housing	**726**
UEGM-MSTB universal component housings	**728**
Multifunctional housings for complex electronics	**730**
ME-PLC function component housing	**732**
CM compact component housings	**736**
EFG single component housing	**738**
UEG-EU universal component housing	**739**
Profile racks and adapters	**740**
UM-ALU 4 aluminum profile housing	**742**
UM-PRO and UM-BASIC press-drawn section panel mounting bases	**748**
UM press-drawn section panel mounting bases	**754**
UMK plug-in module panel mounting bases	**760**
UM plug-in module panel mounting bases	**758**
UTA, EM-MP/SISM DIN rail adapters	**764**
HC-ALU handheld housings for use in the field	**766**

Electronics housings in other colors



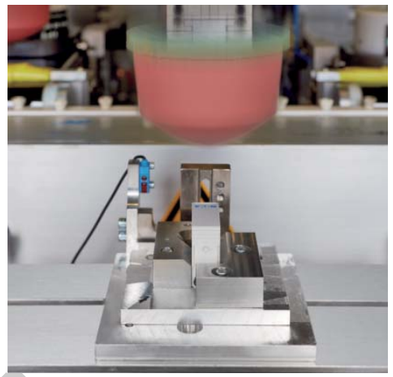
Electronics housings can also be produced in colors other than the standard color, either completely or as a combination of different colored housing parts. Our ability to reproduce your own company color maximizes brand recognition value.

Mechanically processed electronics housings



We can mill the necessary openings for connection systems, displays, screens or operating elements. Customer-specific cutouts can be made on each side of the housing with our state-of-the-art milling machines. This means that you do not have to carry out additional manufacturing work or deal with the associated logistical issues. Your stock inventory is thereby reduced to components that are ready for assembly.

Marking and printing on electronics housings



Phoenix Contact offers the option of printing housings or housing parts according to your specifications. The following procedures are available:
– Pad printing: ideal for one- or two-color printing
– Screen printing: for printing in multiple colors on larger surfaces
– Laser printing: particularly suitable for content that changes on a regular basis, e.g., serial numbers or barcodes

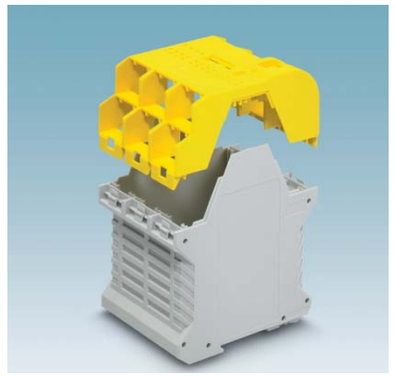
Electronics housing for industrial electronics and semi-industrial applications
Customer-specific solutions

Customer-specific adaptations in series tools



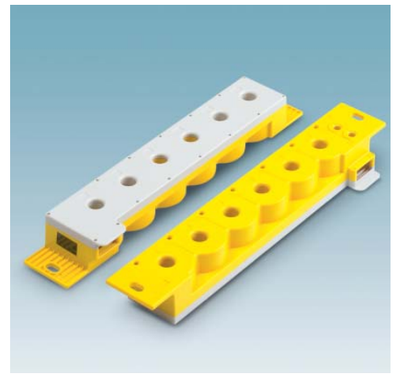
For large volumes, injection molding is often a more cost-effective approach than mechanical finishing. Phoenix Contact is able to offer you the option of producing customized housing components directly from an original mold.

Development of a customer-specific housing component



To deliver a solution adapted to meet your specific requirements, it is sometimes necessary to replace individual standard housing parts with customer-specific design features. We design housing parts according to your specifications and combine them with proven standard components.

Development of new customer-specific housings



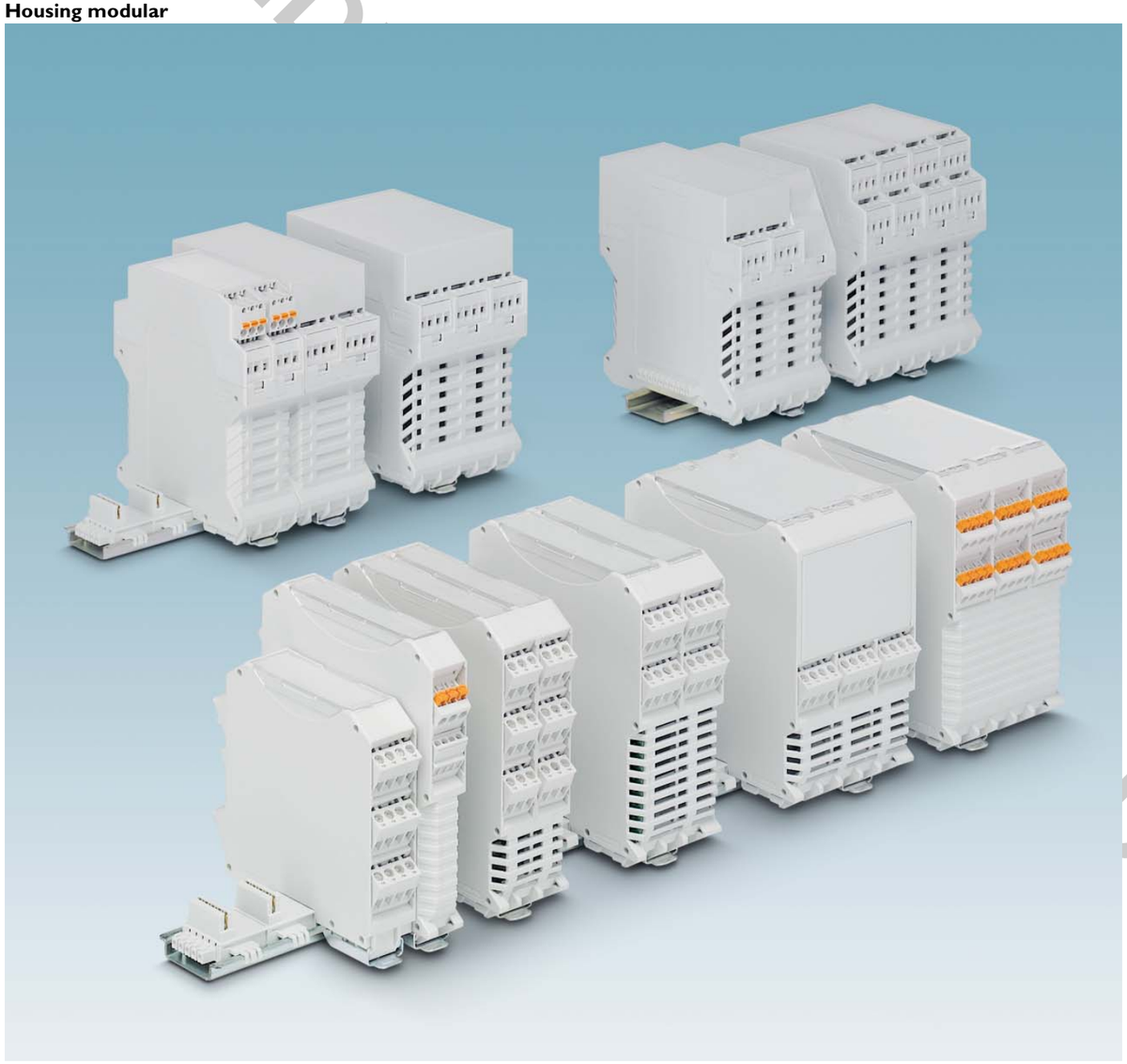
Do you need a new, special housing designed according to your requirements? With the expertise of our experienced housing specialists, we will support and assist you through all the necessary steps.

What you can expect from us:
– Draft of concept
– Design
– Prototype construction
– Tool engineering
– Pre-series production
– Series production

The example shown here is the housing for a custom-made insulation fault evaluator by Bender GmbH & Co. KG Grünberg.

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Housing modular

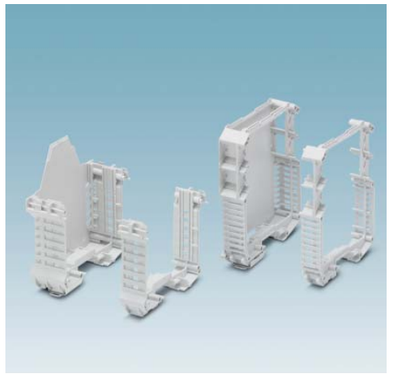


ME and ME MAX modular electronics housings offer a functional and design-oriented “packaging” solution for modern electronic components. Variable connection technology, bus connectors, and modularity ensure the right device design for every application.

Electronics housing for industrial electronics and semi-industrial applications
Modular component housing for industrial electronics



Flat designs
Flat and super-flat designs are the ideal solution for use in distributed terminal boxes.



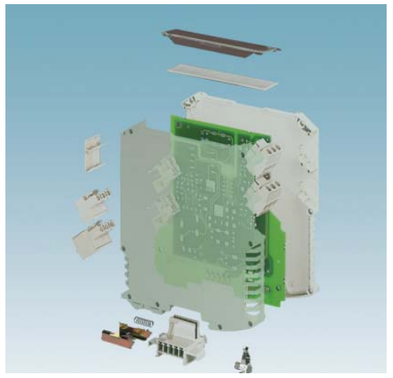
Modular construction
Housing widths with 17.5 mm or 22.5 mm pitch can be increased as required by aligning intermediate elements.



Connection Systems
Hard soldered or plug-in connection technology with variable pitch dimensions and numbers of positions maximizes flexibility where PCB connections are concerned.



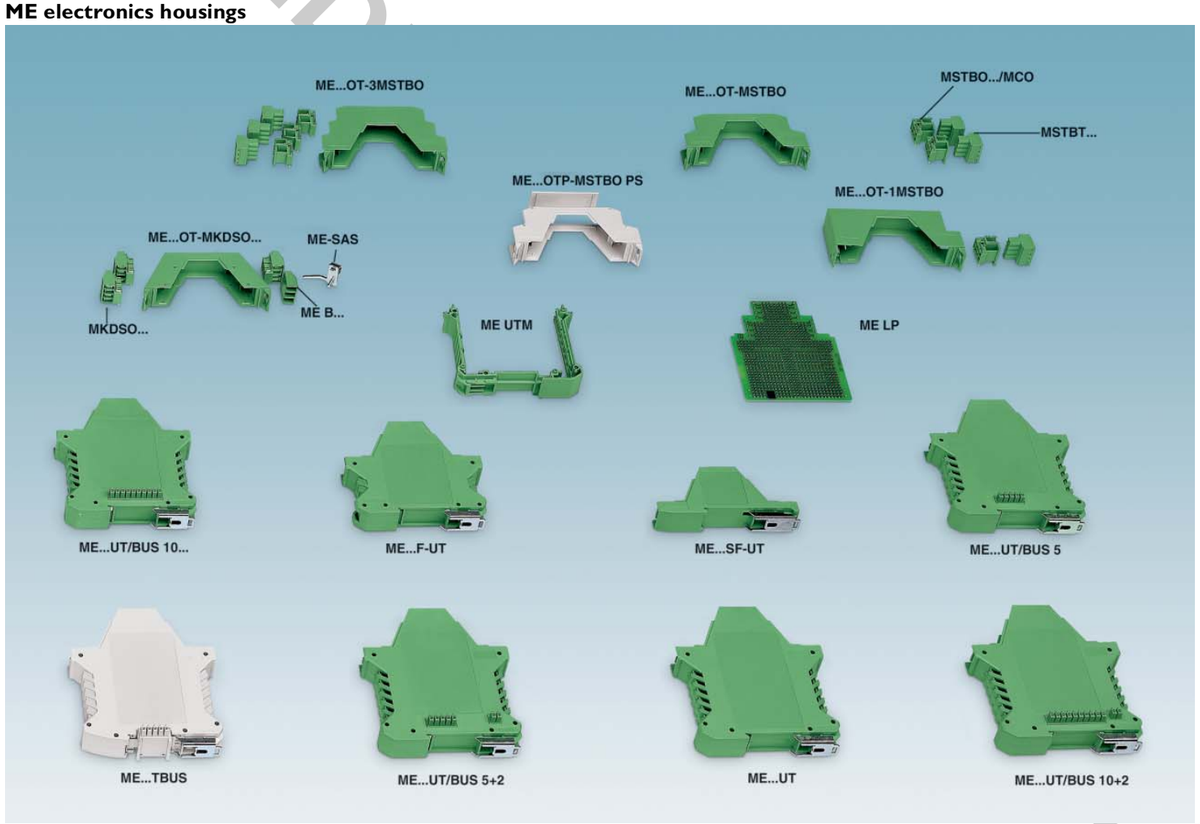
ME housing range
Your advantages at a glance:
– Pre-assembled receptacle housing
– Various cover versions
– Same PCB geometry for different PCB connection technologies
– Optional: DIN rail connector or integrated cross connector

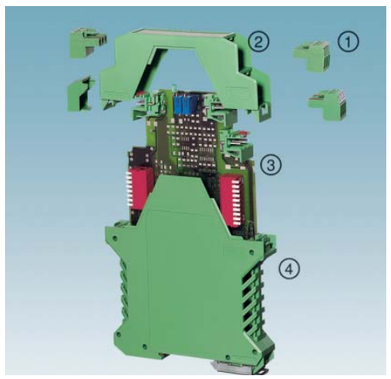


ME MAX housing range
Your advantages at a glance:
– Large PCB assembly area
– Large front panel with transparent cover and fitted cover
– Half-shell design
– Optional with DIN rail connector

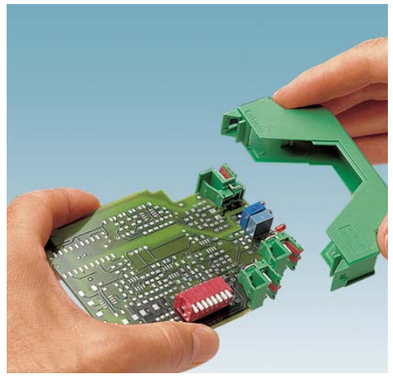
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ME electronics housings



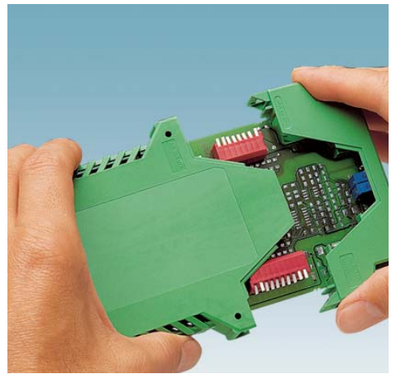


① MSTBO/MKDSO, etc., PCB connection technology see page 656
② ME...OT upper housing parts starting on page 670
③ ME LP sample PCB see page 658
④ ME...UT housing bases starting on page 658

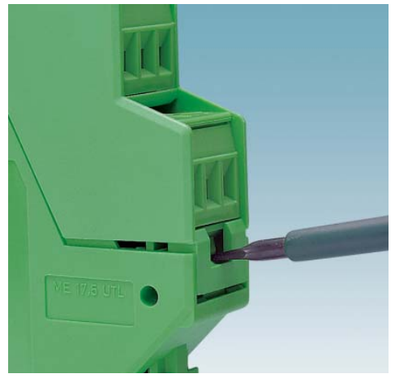


Mounting principle

Electronic components and PCB connection technology can be assembled and soldered in a single step. The upper part of the housing is mounted simply by latching with the soldered connection technology.

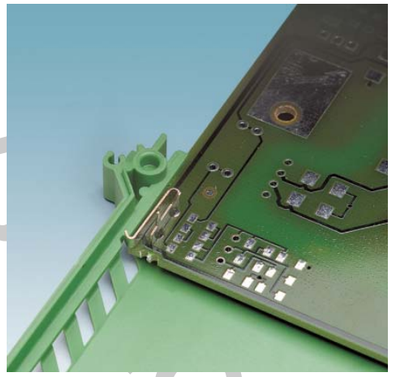


Having been pre-assembled in this way, the upper part is then pushed into the base of the housing, where it locks automatically.



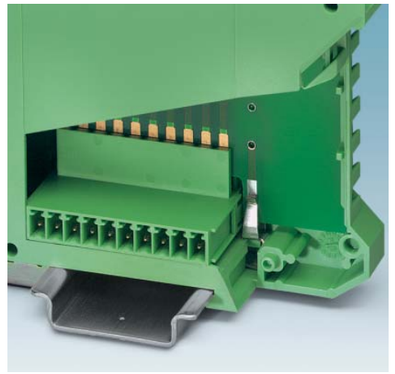
Release

The housing can be easily opened by simply pressing on the lock hook, e.g., using a screwdriver.



Partial removal

After approximately 4 cm, the ME LPZS PCB stop prevents the PCB from being removed completely and simultaneously locks it in place.



Integrated bus connectors

The bus connector integrated in the bottom of the ME housing is in one piece. The conductive path contact points on the PCB make direct contact with the gold-plated contact forks of the cross connector when the electronics module is inserted.
A functional earth ground contact also integrated into the bottom of the housing connects the inserted PCB directly to the grounded DIN rail.



DIN rail connectors

The ME…TBUS connector snaps onto all standard NS 35/7,5 or NS 35/15 DIN rails. When an individual device is removed from the topology, the contact chain is not interrupted.

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Matrix for selecting the housing base

ME housing base	Type	Page	Width [mm]	Without bus connector	With bus connector			With bus connector			Intermediate element for increasing the housing width	
					Integrated			Integrated		For DIN rails		
Start by selecting the housing base →				ME... UT (G) Page 658	**5-pos.** ME... UT BUS/5 Page 662	**5+2-pos.** ME... UT BUS/5+2 Page 662		**10-pos.** ME... UT BUS/10 Page 662	**10+2-pos.** ME... UT BUS/10+2 Page 662	**5-pos.** ME...-TBUS **Page 666**	**17.5 mm pitch** ME 35 UTM / ME35 UTMG **Page 675**	**22.5 mm pitch** ME 45 UTM / ME 45 UTMG Page 675
Tall design (standard)												
	ME 12,5 UT...	658	12.5	•								
	ME 17,5 UT...	658	17.5	•	•	•		•	•	•	•	
	ME 22,5 UT...	659	22.5	•	•	•		•	•	•		•
	ME 35 UT...	660	35	•	•	•		•	•	•	•	
	ME 45 UT....	660	45	•	•	•		•	•	•		•
	ME 67,5 UT....	661	67.5	•		•		•	•	•		•
	ME 90 UT....	661	90	•		•		•	•	•		•
Flat design	ME 22,5 F-UT....	659	22.5	•	•	•		•	•	•		
Ultra-flat design	ME 22,5 SF	659	22.5	•								

Then select the housing upper part →

Matrix for selecting the housing upper part

ME housing base	Type	Page	ME upper housing parts				ME upper housing parts	
			For PCB terminal block connection		For COMBICON connection			For COMBICON connection
			Screw ME... OTU-MKDSO Page 670	**Spring-cage** ME... OT-FKDSO Page 670	**Single-level** ME...OT-1MSTBO Page 670		**Double-level** ME.. OT-MSTBO Page 670	**Three-level** ME... OT-3MSTBO Page 670
Select the housing upper part according to the housing width →								
Tall design (standard)								
	ME 12,5 UT...	658	•	•			•	
	ME 17,5 UT...	658	•	•			•	
	ME 22,5 UT...	659	•	•	•		•	•
	ME 35 UT...	660	O	O			•	
	ME 45 UT....	660	•	•	•		•	O
	ME 67,5 UT....	661	O	O	•		O	O
	ME 90 UT....	661	O	O	•		O	O
Flat design	ME 22,5 F-UT....	659	•	•	•		•	•
Ultra-flat design	ME 22,5 SF	659	•	•	•		•	•

Then select the connection technology →

• = Housing upper part available in corresponding design width.
O = Combination of several upper parts with smaller design width in the same housing pitch.

Matrix for selecting the connection technology

ME housing upper part	Type	Page	Width [mm]	PCB terminal block					COMBICON connection					Number of terminal points
				Screw					Header					
Select the connection technology according to the selected housing upper part	→			3.5 mm pitch MKDSO 1,5/...3,5 Page 89	5 mm pitch MKDSO 2,5/... Page 113	7.5 mm pitch MKDSO 2,5 HV...7,5 Page 125	5 mm pitch FKDSO 2,5/.... Page 153		3.5 mm pitch MCO 1,5/…3,5 Page 232	5 mm pitch MSTBO 2,5/… Page 322	Pitch: 5, touch proof MSTBO 2,5/…P Page 325	Pitch: 5, THR MSTBO 2,5/…THR UTMG Page 309	7.25 mm pitch GMSTBO 2,5 HV/...THR UTMG Page 510	
	ME 12,5 OTU-MKDSO	670	12.5	• 3-pos.	• 2-pos.									2 per housing side
	ME 17,5 OTU-MKDSO	670	17.5	• 4-pos.	• 3-pos.									2 per housing side
	ME 22,5 OTU-MKDSO	671	22.5	• 5-pos.	• 4-pos.									2 per housing side
	ME 45 OTU-MKDSO	671	45	• 5-pos.	• 4-pos.									4 per housing side
	ME 12,5 OT-FKDSO	670	12.5				• 2-pos.							2 per housing side
	ME 17,5 OT-FKDSO	670	17.5				• 3-pos.							2 per housing side
	ME 22,5 OT-FKDSO	671	22.5				• 4-pos.							2 per housing side
	ME 45 OT-FKDSO	671	45				• 4-pos.							4 per housing side
	ME 22,5 OT-1MSTBO	670	22.5						• 5-pos.	• 4-pos.	• 4-pos.	• 4-pos.	• 3-pos.	1 → Housing upper part can only be fitted with terminal block on one side
	ME 45 OT-1MSTBO	670	45						• 5-pos.	• 4-pos.	• 4-pos.	• 4-pos.	• 3-pos.	2 → Housing upper part can only be fitted with terminal block on one side
	ME 67,5 OT-1MSTBO	671	67.5						• 5-pos.	• 4-pos.	• 4-pos.	• 4-pos.	• 3-pos.	3 → Housing upper part can only be fitted with terminal block on one side
	ME 90 OT-1MSTBO	671	90						• 5-pos.	• 4-pos.	• 4-pos.	• 4-pos.	• 3-pos.	4 → Housing upper part can only be fitted with terminal block on one side
	ME 12,5 OT-MSTBO	670	12.5						• 3-pos.	• 2-pos.	• 2-pos.	• 2-pos.		2 per housing side
	ME 17,5 OT-MSTBO	670	17.5						• 4-pos.	• 3-pos.	• 3-pos.	• 3-pos.	• 2-pos.	2 per housing side
	ME 22,5 OT-MSTBO	671	22.5						• 5-pos.	• 4-pos.	• 4-pos.	• 4-pos.	• 3-pos.	2 per housing side
	ME 35 OT-MSTBO	671	35						• 4-pos.	• 3-pos.	• 3-pos.	• 3-pos.	• 2-pos.	4 per housing side
	ME 45 OT-MSTBO	671	45						• 5-pos.	• 4-pos.	• 4-pos.	• 4-pos.	• 3-pos.	4 per housing side
	ME 22,5 OT-3MSTBO	671	22.5						• 5-pos.	• 4-pos.	• 4-pos.	• 4-pos.	• 3-pos.	3 per housing side
						Only for ME MAX housing range								

Matrix for selecting the filler plug

ME housing upper part	Type	Page	Width [mm]	Filler plug			
				For PCB terminal block upper part		For COMBICON upper part	
Select the filler plug according to the selected housing upper part	→			ME B-…MKDSO Page 674	ME B-…FKDSO Page 674	ME B-...MSTBO Page 674	ME B-…3MSTBO Page 674
	ME 12,5 OTU-MKDSO	670	12.5	•			
	ME 17,5 OTU-MKDSO	670	17.5	•			
	ME 22,5 OTU-MKDSO	671	22.5	•			
	ME 45 OTU-MKDSO	671	45	•			
	ME 12,5 OT-FKDSO	670	12.5		•		
	ME 17,5 OT-FKDSO	670	17.5		•		
	ME 22,5 OT-FKDSO	671	22.5		•		
	ME 45 OT-FKDSO	671	45		•		
	ME 22,5 OT-1MSTBO	671	22.5			•	
	ME 45 OT-1MSTBO	671	45			•	
	ME 67,5 OT-1MSTBO	671	67.5			•	
	ME 90 OT-1MSTBO	671	90			•	
	ME 12,5 OT-MSTBO	670	12.5			•	
	ME 17,5 OT-MSTBO	670	17.5			•	
	ME 22,5 OT-MSTBO	671	22.5			•	
	ME 35 OT-MSTBO	671	35			•	
	ME 45 OT-MSTBO	671	45			•	
	ME 22,5 OT-3MSTBO	671	22.5				•
							2 required per terminal point.

Specified number of positions = number of positions per terminal point

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Bases for ME modular component housing

More housing dimensions, the lay-out of the PCBs, their dimensions and assembly areas can be found in the download center under: www.phoenixcontact.net/products

Notes:
Marking systems and mounting material See Catalog 5
At least one COMBICON base strip or one PCB terminal block must be mounted on each side of the PCB.
For PCB connection technology, see page 656.
For accessories, refer to page: 674.
1) For information on power dissipation, see page 770.



Tall design, width: 12.5 mm



Tall design, width: 17.5 mm



Ultra-flat design, width: 22.5 mm



Flat design, width 22.5 mm



Tall design, width: 22.5 mm

Technical data

	ME 12,5 UT GN	ME 12,5 UTG GN		
Power dissipation P_V at 20°C in horizontal mounting position[1])				
Mounted in rows without spacing	4.4 W	4.3 W	-	-
Mounted in rows with min. 20 mm spacing	8.4 W	7.1 W	-	-
Type of housing				
Electronic housings	Polyamide / V0			

Ordering data

Description	Type	Order No.	Pcs. / Pkt.
Lower part of housing, fully assembled, with metal foot catch			
with vents	**ME 12,5 UT GN**	**2906759**	10
without vents	**ME 12,5 UTG GN**	**2906762**	10
Lower part of housing, fully assembled, with metal foot catch, with integrated functional earth contact			
with vents	**ME 12,5 UT/FE GN**	**2906791**	10
without vents	**ME 12,5 UTG/FE GN**	**2906801**	10
Lower part of housing, fully assembled, with metal foot catch			
with vents, low-profile design			
without vents, low-profile design			
Lower part of housing, fully assembled, with metal foot catch, with integrated functional earth contact, flat design			
with vents			
without vents			

Accessories

PCB, for custom mounting components, for ME housing without bus connector	**ME LP**	**2906908**	5

Technical data

	ME 17,5 UT GN	ME 17,5 UTG GN		
Power dissipation P_V at 20°C in horizontal mounting position[1])				
Mounted in rows without spacing	5.2 W	4.9 W	-	-
Mounted in rows with min. 20 mm spacing	10.8 W	8.9 W	-	-
Type of housing				
Electronic housings	Polyamide / V0			

Ordering data

Type	Order No.	Pcs. / Pkt.
ME 17,5 UT GN	**2906775**	10
ME 17,5 UTG GN	**2906788**	10
ME 17,5 UT/FE GN	**2906924**	10
ME 17,5 UTG/FE GN	**2906937**	10

Accessories

Type	Order No.	Pcs. / Pkt.
ME LP	**2906908**	5

Technical data

	ME 22,5 SF-UT GN			
	-	-	-	-
	-	-	-	-
	Polyamide / V0			

Ordering data

Type	Order No.	Pcs. / Pkt.
ME 22,5 SF-UT GN	**2708009**	10

Technical data

	ME 22,5 F-UT GN	ME 22,5 F-UTG GN		
	5.9 W	5.5 W	-	-
	11.5 W	9.6 W	-	-
	Polyamide / V0			

Ordering data

Type	Order No.	Pcs. / Pkt.
ME 22,5 F-UT GN	**2854131**	10
ME 22,5 F-UTG GN	**2854144**	10
ME 22,5 F-UT/FE GN	**2854160**	10
ME 22,5 F-UTG/FE GN	**2854157**	10

Technical data

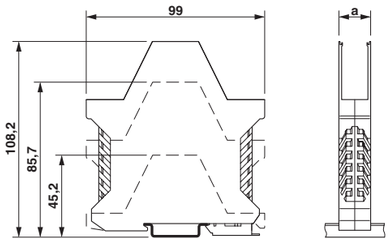
	ME 22,5 UT GN	ME 22,5 UTG GN		
	6.1 W	5.7 W	-	-
	12.1 W	10.1 W	-	-
	Polyamide / V0			

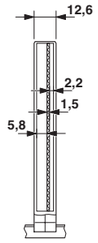
Ordering data

Type	Order No.	Pcs. / Pkt.
ME 22,5 UT GN	**2907130**	10
ME 22,5 UTG GN	**2907127**	10
ME 22,5 UT/FE GN	**2907114**	10
ME 22,5 UTG/FE GN	**2907101**	10

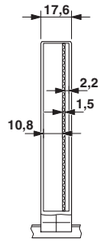
Accessories

Type	Order No.	Pcs. / Pkt.
ME LP		5

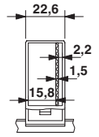




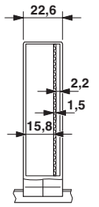
Housing inner dimensions



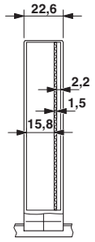
Housing inner dimensions



Housing inner dimensions



Housing inner dimensions



Housing inner dimensions

Bases for ME modular component housing

More housing dimensions, the lay-out of the PCBs, their dimensions and assembly areas can be found in the download center under: www.phoenixcontact.net/products

Notes:
Marking systems and mounting material See Catalog 5
At least one COMBICON base strip or one PCB terminal block must be mounted on each side of the PCB.
For PCB connection technology, see page 656.
For accessories, see page 674.
1) For information on power disspation, see page 770.



Tall design, width: 35 mm



Tall design, width: 45 mm



Tall design, width: 67.5 mm



Tall design, width: 90 mm

Technical data

	ME 35 UT GN	ME 35 UTG GN		
Power dissipation P_V at 20°C in horizontal mounting position[1])				
Mounted in rows without spacing	7.9 W	7.5 W	-	-
Mounted in rows with min. 20 mm spacing	16.3 W	13.8 W	-	-
Type of housing				
Electronic housings	Polyamide / V0			

Ordering data

Description	Type	Order No.	Pcs. / Pkt.
Lower part of housing, fully assembled, with metal foot catch			
with vents	**ME 35 UT GN**	**2907198**	10
without vents	**ME 35 UTG GN**	**2907208**	10
Lower part of housing, fully assembled, with metal foot catch, with integrated functional earth contact			
with vents	**ME 35 UT/FE GN**	**2907211**	10
without vents	**ME 35 UTG/FE GN**	**2907224**	10

Accessories

PCB, for custom mounting components, for ME housing without bus connector			
	ME LP	**2906908**	5

Technical data

	ME 45 UT GN	ME 45 UTG GN		
Power dissipation P_V at 20°C in horizontal mounting position[1])				
Mounted in rows without spacing	8.2 W	7.6 W	-	-
Mounted in rows with min. 20 mm spacing	16.5 W	14.1 W	-	-
Type of housing				
Electronic housings	Polyamide / V0			

Ordering data

Type	Order No.	Pcs. / Pkt.
ME 45 UT GN	**2909361**	10
ME 45 UTG GN	**2909374**	10
ME 45 UT/FE GN	**2909358**	10
ME 45 UTG/FE GN	**2909387**	10

Accessories

ME LP	**2906908**	5

Technical data

	ME 67,5 UT/FE KMGY			
Power dissipation P_V at 20°C in horizontal mounting position[1])				
Mounted in rows without spacing	9.1 W	-	-	-
Mounted in rows with min. 20 mm spacing	17.5 W	-	-	-
Type of housing				
Electronic housings	Polyamide / V0			

Ordering data

Type	Order No.	Pcs. / Pkt.
ME 67,5 UT/FE KMGY	**2200535**	10

Accessories

ME LP	**2906908**	5

Technical data

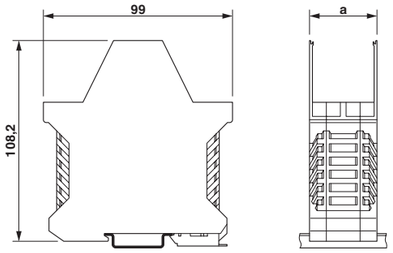
	ME 90 UT/FE KMGY			
Power dissipation P_V at 20°C in horizontal mounting position[1])				
Mounted in rows without spacing	10.4 W	-	-	-
Mounted in rows with min. 20 mm spacing	18.9 W	-	-	-
Type of housing				
Electronic housings	Polyamide / V0			

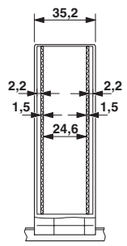
Ordering data

Type	Order No.	Pcs. / Pkt.
ME 90 UT/FE KMGY	**2200536**	10

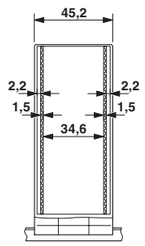
Accessories

ME LP	**2906908**	5

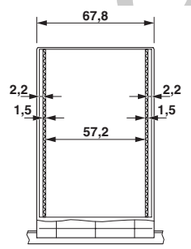




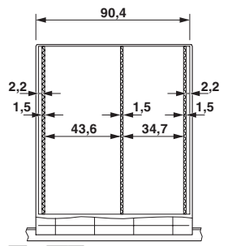
Housing inner dimensions



Housing inner dimensions

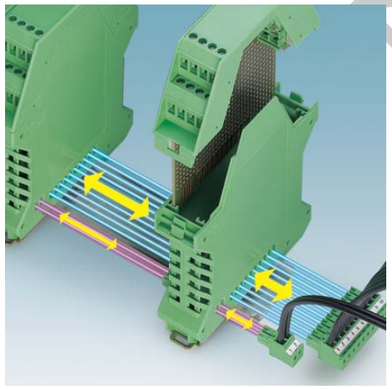


Housing inner dimensions



Housing inner dimensions

ME BUS modular component housing

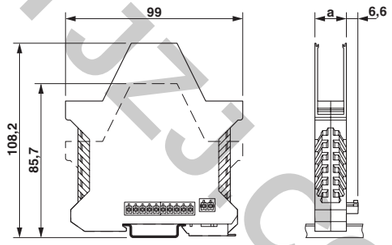


The ME bus housings are the system version of the ME modular electronic housing with integrated, cascadable cross connection.

Main features:
- Six housing widths from 17.5 mm to 90 mm
- 5 or 10 integrated parallel contacts
- 2 optional serial contacts (daisy chain)
- Gold contacts for data transmission and power supply (125 V, 8 A)
- Supply via standard MINI COMBICON connector
- Can be snapped onto commercially available NS 35/7,5 and NS 35/15 DIN rails

More housing dimensions, the layout of the PCBs, their dimensions and assembly areas can be found in the download center under: www.phoenixcontact.net/products

Notes:
Marking systems and mounting material See Catalog 5
At least one COMBICON base strip or one PCB terminal block must be mounted on each side of the PCB.
For PCB connection technology, see page 656.
For accessories, refer to page: 674.
[1]) For information on power dissipation, see page 770.





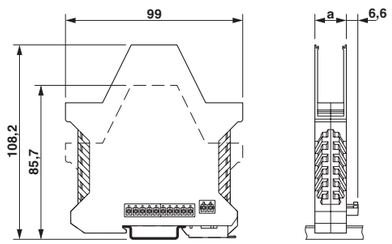
Tall design, width: 17.5 mm

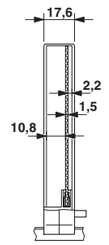
Technical data

	ME 17,5 UT/FE BUS/ 5 GN		
Power dissipation P_V at 20°C in horizontal mounting position[1])			
Mounted in rows without spacing	5.2 W	-	-
Mounted in rows with min. 20 mm spacing	10.8 W	-	-
Type of housing			
Electronic housings	Polyamide / V0		

Ordering data

Description	Type	Order No.	Pcs. / Pkt.
Lower part of a housing, with vents, fully pre-assembled, with integrated bus connector (parallel)			
Without functional earth ground contact, with bus connector, 5-pos.			
Without functional earth ground contact and with bus connector, 10-pos.			
With functional earth ground contact and bus connector, 5-pos.	**ME 17,5 UT/FE BUS/ 5 GN**	**2908728**	10
With functional earth ground contact and bus connector, 10-pos.	**ME 17,5 UT/FE BUS/10 GN**	**2908731**	10
Housing base, with vents and functional earth ground contacts			
With additional serial contacting (2-pos.), with bus connector, 5-pos. and 2-pos.	**ME 17,5 UT/FE BUS/ 5+2 GN**	**2854186**	10
With additional serial contacting (2-pos.), with bus connector, 10-pos. and 2-pos.	**ME 17,5 UT/FE BUS/10+2 GN**	**2854199**	10
Housing base, flat design, fully pre-assembled			
With vents and bus connector, 5-pos.			
Without vents, with bus connector, 5-pos.			
With vents and bus connector, 10-pos.			
Without vents, with bus connector, 10-pos.			
Lower part of housing, flat design, fully pre-assembled with integrated 5 or 10 pos. bus connector (parallel) and additional serial contacting (2-pos.)			
With vents and bus connector, 5-pos., 2-pos.			
Without vents and with bus connector, 5-pos., 2-pos.			
With vents and bus connector, 10-pos., 2-pos.			
Without vents and with bus connector, 10-pos., 2-pos.			





Housing inner dimensions



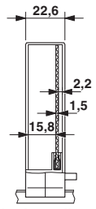
Flat design, width 22.5 mm

Technical data

	ME 22,5 F-UT BUS/ 5 GN		
	5.9 W	-	-
	11.5 W	-	-
	Polyamide / V0		

Ordering data

Type	Order No.	Pcs. / Pkt.
ME 22,5 F-UT BUS/ 5 GN	**2735975**	10
ME 22,5 F-UTG BUS/ 5 GN	**2735988**	10
ME 22,5 F-UT BUS/10 GN	**2735991**	10
ME 22,5 F-UTG BUS/10 GN	**2736000**	10
ME 22,5 F-UT BUS/ 5+2 GN	**2706014**	10
ME 22,5 F-UTG BUS/ 5+2 GN	**2706027**	10
ME 22,5 F-UT BUS/10+2 GN	**2706030**	10
ME 22,5 F-UTG BUS/10+2 GN	**2706043**	10



Housing inner dimensions



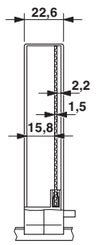
Tall design, width: 22.5 mm

Technical data

	ME 22,5 UT/FE BUS/ 5 GN		
	6.1 W	-	-
	12.1 W	-	-
	Polyamide / V0		

Ordering data

Type	Order No.	Pcs. / Pkt.
ME 22,5 UT/FE BUS/ 5 GN	**2908744**	10
ME 22,5 UT/FE BUS/10 GN	**2908755**	10
ME 22,5 UT/FE BUS/ 5+2 GN	**2854209**	10
ME 22,5 UT/FE BUS/10+2 GN	**2854212**	10



Housing inner dimensions



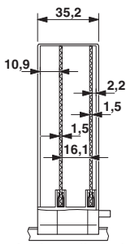
Tall design, width: 35 mm

Technical data

	ME 35 UT BUS/ 5 GN		
	7.9 W	-	-
	16.3 W	-	-
	Polyamide / V0		

Ordering data

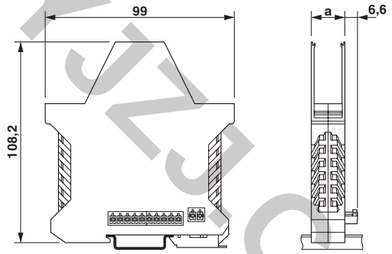
Type	Order No.	Pcs. / Pkt.
ME 35 UT BUS/ 5 GN	**2853637**	10
ME 35 UT BUS/10 GN	**2853640**	10
ME 35 UT/FE BUS/5 GN	**2706771**	10
ME 35 UT/FE BUS/ 5+2 GN	**2735551**	10
ME 35 UT/FE BUS/10+2 GN	**2735564**	10



Housing inner dimensions

ME BUS modular component housing

Notes:
Marking systems and mounting material See Catalog 5
At least one COMBICON base strip or one PCB terminal block must be mounted on each side of the PCB.
For PCB connection technology, see page 656.
For accessories, refer to page: 674.
[1]) For information on power dissipation, see page 770.





Tall design, width: 45 mm



Tall design, width: 67.5 mm



Tall design, width: 90 mm

Technical data

	ME 45 UT BUS/5 GN			
Power dissipation P_V at 20°C in horizontal mounting position[1])				
Mounted in rows without spacing	8.2 W	-	-	-
Mounted in rows with min. 20 mm spacing	16.5 W	-	-	-
Type of housing				
Electronic housings	Polyamide / V0			

Technical data

	ME 67,5 UT/FE BUS/10 KMGY			
Power dissipation P_V at 20°C in horizontal mounting position[1])				
Mounted in rows without spacing	9.1 W	-	-	-
Mounted in rows with min. 20 mm spacing	17.5 W	-	-	-
Type of housing				
Electronic housings	Polyamide / V0			

Technical data

	ME 90 UT/FE BUS/10 KMGY			
Power dissipation P_V at 20°C in horizontal mounting position[1])				
Mounted in rows without spacing	10.4 W	-	-	-
Mounted in rows with min. 20 mm spacing	18.9 W	-	-	-
Type of housing				
Electronic housings	Polyamide / V0			

Ordering data

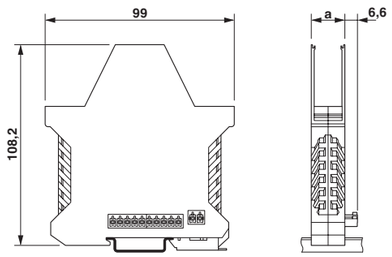
Description	Type	Order No.	Pcs. / Pkt.
Housing base, with vents, fully pre-assembled			
Without functional earth ground contact, with bus connector, 5-pos.	**ME 45 UT BUS/5 GN**	**2853679**	10
Without functional earth ground contact, with bus connector, 10-pos.	**ME 45 UT BUS/10 GN**	**2853682**	10
With functional earth ground contact and bus connector, 5-pos.	**ME 45 UT/FE BUS/ 5 GN**	**2709765**	10
With functional earth ground contact and bus connector, 10-pos.			
Housing base, fully pre-assembled, with metal foot catch, with integrated functional earth ground contacts and vents			
With additional serial contacting (2-pos.), with bus connector, 5-pos. and 2-pos.	**ME 45 UT/FE BUS/ 5+2 GN**	**2735577**	10
With additional serial contacting (2-pos.), with bus connector, 10-pos. and 2-pos.	**ME 45 UT/FE BUS/10+2 GN**	**2735580**	10

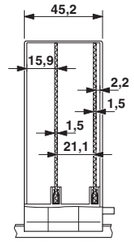
Ordering data

Type	Order No.	Pcs. / Pkt.
ME 67,5 UT/FE BUS/10 KMGY	**2200539**	10
ME 67,5 UT/FE BUS/5+2 KMGY	**2200537**	10
ME 67,5 UT/FE BUS/10+2 KMGY	**2200541**	10

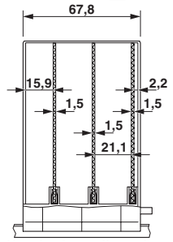
Ordering data

Type	Order No.	Pcs. / Pkt.
ME 90 UT/FE BUS/10 KMGY	**2200540**	10
ME 90 UT/FE BUS/5+2 KMGY	**2200538**	10
ME 90 UT/FE BUS/10+2 KMGY	**2200543**	10

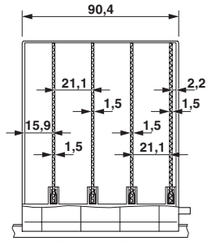




Housing inner dimensions



Housing inner dimensions



Housing inner dimensions

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ME TBUS modular component housing



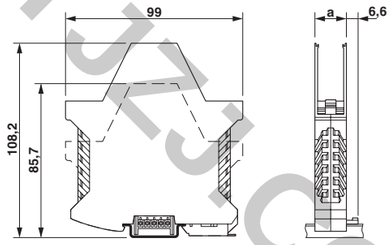
The ME TBUS housings can be interconnected using the DIN-rail mountable ME...TBUS connectors

Main features:

- Six housing widths from 17.5 mm to 90 mm
- ME...TBUS connector with 5 parallel contacts can be snapped onto DIN rails to save space
- Gold contacts for data transmission and power supply (125 V, 8 A)
- When a device is unplugged from the system as a whole, the signal chain is not interrupted
- Supply via standard MINI COMBICON connector
- Can be snapped onto commercially available NS 35/7,5 and NS 35/15 DIN rails

More housing dimensions, the layout of the PCBs, their dimensions and assembly areas can be found in the download center under: www.phoenixcontact.net/products

Notes:
Marking systems and mounting material See Catalog 5
At least one COMBICON base strip or one PCB terminal block must be mounted on each side of the PCB.
For PCB connection technology, see page 656.
For accessories, refer to page: 674.
1) For information on power dissipation, see page 770.
2) DIN rail connectors see page 676.





Tall design, width: 17.5 mm

Technical data

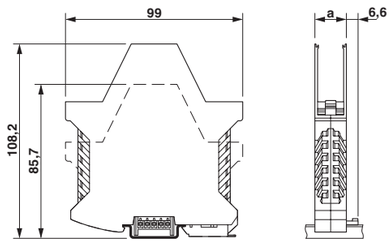
Power dissipation P_V at 20°C in horizontal mounting position[1]	ME 17,5 UT TBUS KMGY	ME 17,5 UTG TBUS KMGY		
Mounted in rows without spacing	5.2 W	4.9 W	-	-
Mounted in rows with min. 20 mm spacing	10.8 W	8.9 W	-	-
Type of housing				
Electronic housings	Polyamide / V0			
Connection data	solid [mm²]	stranded [mm²]	AWG	I [A] / U [V]
ME 17,5.../TBUS...	-	-	-	8 / 125

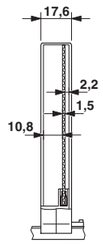
Ordering data

Description	Type	Order No.	Pcs. / Pkt.
Housing lower part, light gray, fully assembled, without TBUS connector			
with vents	**ME 17,5 UT TBUS KMGY**	**2914783**	10
without vents	**ME 17,5 UTG TBUS KMGY**	**2914796**	10
Housing lower part, light gray, fully mounted, without TBUS connector, flat housing type			
with vents			
without vents			

Accessories

DIN rail bus connector, 5-pos.[2]			
	ME 17,5 TBUS 1,5/ 5-ST-3,81 KMGY	**2713645**	50
Power clip for TBUS connector, for strain relief in connection with MC(VR) 1,5/5-... or IMC 1,5/5-ST-3,81 AU plugs	**E/ME TBUS NS35 GY**	**2713780**	50





Housing inner dimensions



Flat design, width 22.5 mm

Technical data

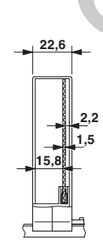
ME 22,5 F-UT TBUS KMGY	ME 22,5 F-UTG TBUS KMGY			
5.9 W	5.5 W	-	-	
11.5 W	9.6 W	-	-	
Polyamide / V0				
solid [mm²]	stranded [mm²]	AWG	I [A]	U [V]
-	-	-	8	125

Ordering data

Type	Order No.	Pcs. / Pkt.
ME 22,5 F-UT TBUS KMGY	**2914835**	10
ME 22,5 F-UTG TBUS KMGY	**2914851**	10

Accessories

ME 22,5 TBUS 1,5/ 5-ST-3,81 KMGY	**2713722**	50
E/ME TBUS NS35 GY	**2713780**	50



Housing inner dimensions



Tall design, width: 22.5 mm

Technical data

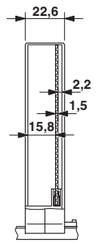
ME 22,5 UT TBUS KMGY	ME 22,5 UTG TBUS KMGY			
6.1 W	5.7 W	-	-	
12.1 W	10.1 W	-	-	
Polyamide / V0				
solid [mm²]	stranded [mm²]	AWG	I [A]	U [V]
-	-	-	8	125

Ordering data

Type	Order No.	Pcs. / Pkt.
ME 22,5 UT TBUS KMGY	**2869524**	10
ME 22,5 UTG TBUS KMGY	**2914806**	10

Accessories

ME 22,5 TBUS 1,5/ 5-ST-3,81 KMGY	**2713722**	50
E/ME TBUS NS35 GY	**2713780**	50



Housing inner dimensions



Tall design, width: 35 mm

Technical data

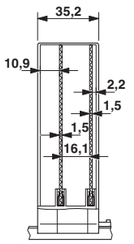
ME 35 UT TBUS KMGY	ME 35 UTG TBUS KMGY			
7.9 W	7.5 W	-	-	
16.3 W	13.8 W	-	-	
Polyamide / V0				
solid [mm²]	stranded [mm²]	AWG	I [A]	U [V]
-	-	-	8	125

Ordering data

Type	Order No.	Pcs. / Pkt.
ME 35 UT TBUS KMGY	**2914819**	10
ME 35 UTG TBUS KMGY	**2914822**	10

Accessories

ME 17,5 TBUS 1,5/ 5-ST-3,81 KMGY	**2713645**	50
E/ME TBUS NS35 GY	**2713780**	50

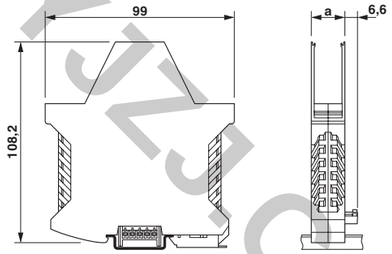


Housing inner dimensions

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ME TBUS modular component housing

Notes:
Marking systems and mounting material See Catalog 5
At least one COMBICON base strip or one PCB terminal block must be mounted on each side of the PCB.
For PCB connection technology, see page 656.
For accessories, refer to page: 674.
1) For information on power dissipation, see page 770.
2) DIN rail connectors see page 676.





Tall design, width: 45 mm



Tall design, width: 67.5 mm



Tall design, width: 90 mm

Technical data

	ME 45 UT TBUS KMGY	ME 45 UTG TBUS KMGY		
Power dissipation P_V at 20°C in horizontal mounting position1)				
Mounted in rows without spacing	8.2 W	7.6 W	-	-
Mounted in rows with min. 20 mm spacing	16.5 W	14.1 W	-	-
Type of housing				
Electronic housings	Polyamide / V0			
Connection data	solid [mm²]	stranded [mm²]	AWG	I [A] / U [V]
ME 17,5.../TBUS...	-	-	-	8 / 125

Ordering data

Description	Type	Order No.	Pcs. / Pkt.
Housing base, fully pre-assembled, with metal foot catch, without TBUS plug			
with vents	**ME 45 UT TBUS KMGY**	**2869511**	10
without vents	**ME 45 UTG TBUS KMGY**	**2914848**	10

Accessories

DIN rail bus connector, 5-pos.2)		
ME 22,5 TBUS 1,5/ 5-ST-3,81 KMGY	**2713722**	50
Power clip for TBUS connector, for strain relief in connection with MC(VR) 1,5/5-... or IMC 1,5/5-ST-3,81 AU plugs	**E/ME TBUS NS35 GY** **2713780**	50

Technical data

	ME 67,5 UT TBUS KMGY			
	9.1 W	-	-	-
	17.5 W	-	-	-
	Polyamide / V0			
	solid [mm²]	stranded [mm²]	AWG	I [A] / U [V]
	-	-	-	8 / 125

Ordering data

Type	Order No.	Pcs. / Pkt.
ME 67,5 UT TBUS KMGY	**2200544**	10

Accessories

ME 22,5 TBUS 1,5/ 5-ST-3,81 KMGY	**2713722**	50
E/ME TBUS NS35 GY	**2713780**	50

Technical data

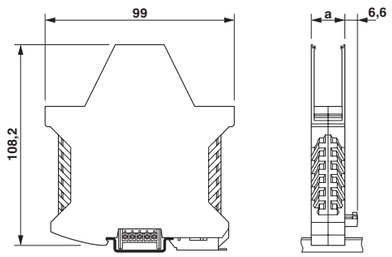
	ME 90 UT TBUS KMGY			
	10.4 W	-	-	-
	18.9 W	-	-	-
	Polyamide / V0			
	solid [mm²]	stranded [mm²]	AWG	I [A] / U [V]
	-	-	-	8 / 125

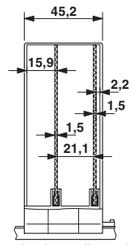
Ordering data

Type	Order No.	Pcs. / Pkt.
ME 90 UT TBUS KMGY	**2200545**	10

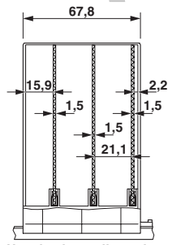
Accessories

ME 22,5 TBUS 1,5/ 5-ST-3,81 KMGY	**2713722**	50
E/ME TBUS NS35 GY	**2713780**	50

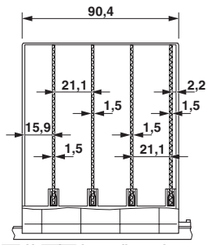




Housing inner dimensions



Housing inner dimensions



Housing inner dimensions

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Upper parts for ME modular component housing

More housing dimensions, the layout of the PCBs, their dimensions and assembly areas can be found in the download center under: www.phoenixcontact.net/products

Notes:
Marking systems and mounting material See Catalog 5
At least one COMBICON base strip or one PCB terminal block must be mounted on each side of the PCB.
For PCB connection technology, see page 656.
For accessories, refer to page: 674.



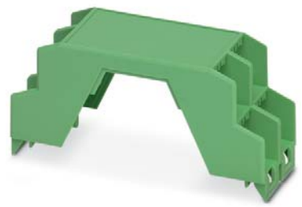
Width: 12.5 mm



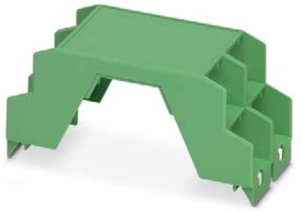
Width: 17.5 mm



Width: 22.5 mm



Width: 35 mm



Width: 45 mm

Type of housing	Technical data	Technical data	Technical data	Technical data	Technical data
Electronic housings	Polyamide / V0	Polyamide / V0	Polyamide / V0	Polyamide / V0	Polyamide / V0

Description	Ordering data Type	Order No.	Pcs. / Pkt.	Ordering data Type	Order No.	Pcs. / Pkt.	Ordering data Type	Order No.	Pcs. / Pkt.	Ordering data Type	Order No.	Pcs. / Pkt.	Ordering data Type	Order No.	Pcs. / Pkt.
Housing upper part, for PCB terminal block connection with 3.5 or 5 mm pitch, color: green	ME 12,5 OTU-MKDSO GN	2278856	10	ME 17,5 OTU-MKDSO GN	2278872	10	ME 22,5 OTU-MKDSO GN	2278966	10	ME 17,5 OTU-MKDSO GN	2278872	10	ME 45 OTU-MKDSO GN	2279826	10
Housing upper part, for COMBICON connection with 3.5 mm or 5 mm pitch, color: green Single-level Double-level Three-level	ME 12,5 OT-MSTBO GN	2906814	10	ME 17,5 OT-MSTBO GN	2906827	10	ME 22,5 OT-1MSTBO GN ME 22,5 OT-MSTBO GN ME 22,5 OT-3MSTBO GN	2709558 2907169 2735962	10 10 10	ME 35 OT-MSTBO GN	2709639	10	ME 45 OT-1MSTBO GN ME 45 OT-MSTBO GN	2709192 2909743	10 10
Housing upper part, for spring-cage PCB terminal block connection with 5 mm pitch, color: light gray				ME 17,5 OT-FKDSO KMGY	2200322	10	ME 22,5 OT-FKDSO KMGY	2200323	10	ME 17,5 OT-FKDSO KMGY	2200322	10	ME 45 OT-FKDSO KMGY	2200327	10
Housing upper part, for PCB terminal block connection with 3.5 or 5 mm pitch, color: light gray				ME 17,5 OTU-MKDSO KMGY	2278940	10	ME 22,5 OTU-MKDSO KMGY	2278953	10	ME 17,5 OTU-MKDSO KMGY	2278940	10	ME 45 OTU-MKDSO KMGY	2279923	10
Housing upper part, for COMBICON connection with 3.5 mm or 5 mm pitch, color: light gray Single-level Double-level Three-level				ME 17,5 OT-MSTBO KMGY	2853747	10	ME 22,5 OT-1MSTBO KMGY ME 22,5 OT-MSTBO KMGY ME 22,5 OT-3MSTBO KMGY	2914877 2907761 2914880	10 50 10	ME 35 OT-MSTBO KMGY	2914864	10	ME 45 OT-1MSTBO KMGY ME 45 OT-MSTBO KMGY	2709299 2854429	10 10
Housing upper part, for COMBICON connection with 3.5 or 5 mm pitch, suitable for fitted covers and Plug Snap, color: light gray				ME 17,5 OTP-MSTBO PS KMGY	2279253	10	ME 22,5 OTP-MSTBO PS KMGY	2279282	10	ME 17,5 OTP-MSTBO PS KMGY	2279253	10	ME 22,5 OTP-MSTBO PS KMGY	2279282	10
Fitted cover for ME upper parts ME ...OTP-MSTBO KMGY, color: light gray				ME 17,5 PLATE-MSTBO KMGY	2279266	10	ME 22,5 PLATE-MSTBO KMGY	2279279	10	ME 17,5 PLATE-MSTBO KMGY	2279266	10	ME 22,5 PLATE-MSTBO KMGY	2279279	10
Housing upper part set, complete with COMBICON headers and plugs for full mounting with 5 mm pitch, color: green Single-level Double-level Three-level	ME 12,5 OT-MSTBO SET	2907428	1	ME 17,5 OT-MSTBO SET	2907431	1	ME 22,5 OT-1MSTBO SET ME 22,5 OT-MSTBO SET ME 22,5 OT-3MSTBO SET	2707741 2907444 2707767	1 1 1	ME 35 OT-MSTBO SET	2707738	1	ME 45 OT-1MSTBO SET ME 45 OT-MSTBO SET	2707754 2909905	1 1
Housing upper part set, complete with PCB terminal blocks for full assembly, 5 mm pitch, color: green	ME 12,5 OT-MKDSO SET	2907457	1	ME 17,5 OT-MKDSO SET	2907460	1	ME 22,5 OT-MKDSO SET	2907473	1	ME 17,5 OT-MKDSO SET	2907460	1	ME 45 OT-MKDSO SET	2909345	1

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Upper parts for ME modular component housing

More housing dimensions, the layout of the PCBs, their dimensions and assembly areas can be found in the download center under: www.phoenixcontact.net/products

Notes:
Marking systems and mounting material See Catalog 5
At least one COMBICON base strip or one PCB terminal block must be mounted on each side of the PCB.
For PCB connection technology, see page 656.
For accessories, refer to page: 674.



Width: 67.5 mm



Width = 90 mm

Technical data	
Type of housing	
Electronic housings	Polyamide / V0

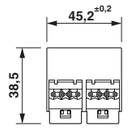
Ordering data			
Description	Type	Order No.	Pcs. / Pkt.
Housing upper part, for COMBICON connection with 3.5 mm or 5 mm pitch, single-level, color: light gray	**ME 67,5 OT-1MSTBO KMGY**	**2200522**	10

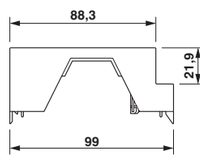
Technical data	
Type of housing	
Electronic housings	Polyamide / V0

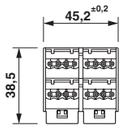
Ordering data			
Description	Type	Order No.	Pcs. / Pkt.
Housing upper part, for COMBICON connection with 3.5 mm or 5 mm pitch, single-level, color: light gray	**ME 90 OT-1MSTBO KMGY**	**2200523**	10

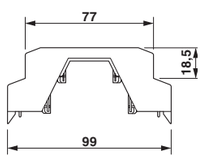
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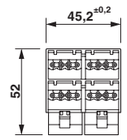
Upper parts ME...

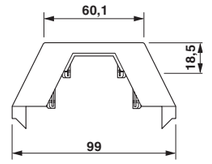








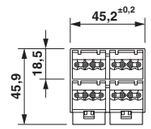


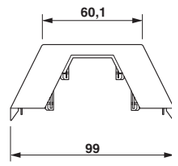


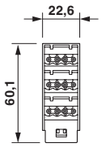
Side view ME...OT-1MSTBO

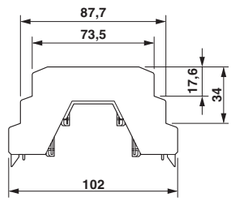
Side view ME...OT-MSTBO

Side view ME...OT-MKDSO









Side view ME...OT-FKDSO

Side view ME...OT-3MSTBO

Accessories for the ME housing



An extensive range of accessories is available for the ME housing range so that functions can be extended in precise accordance with requirements

These include:

- ME B... filler plugs for closing unused terminal points. One filler plug is required for each terminal point
- ME...UTM intermediate elements and ME MF metal foot to increase the housing width
- ME PS... plug snap connector ejector with labeling option in conjunction with ME...OTP-MSTBO PS upper housing parts
- ESL labeling strips for ME PS ejector
- EML... labels to match housing contour for device-specific labels
- ME SAS shield connection clamp for potential connection of shielded cables

Notes:
Marking systems and mounting material See Catalog 5
At least one COMBICON base strip or one PCB terminal block must be mounted on each side of the PCB.
For PCB connection technology, see page 656.



Accessories for ME 12,5



Accessories for ME 17,5



Accessories for ME 22,5

Description	Ordering data		
	Type	Order No.	Pcs. / Pkt.
Filler plugs, for unoccupied terminal points, color: green			
For upper part of COMBICON, single and double-level	ME B-12,5 MSTBO GN	2906856	10
For upper part of a PCB terminal block, double-level	ME B-12,5 MKDSO GN	2906872	10
For upper part of COMBICON, three-level, two pieces required per terminal point			
Filler plug, for unused terminal points, color: light gray			
For upper part of COMBICON, single and double-level	ME B-12,5 MSTBO KMGY	2854801	10
For upper part of a PCB terminal block, double-level			
For upper part of spring-cage PCB terminal block, double-level	ME B-12,5 FKDSO KMGY	2200565	50
For upper part of COMBICON, three-level, 2 required for each 22.5 mm terminal point			
Intermediate element, for modular extension of the housing volume, 17.5 /22.5 mm pitch, color: green			
with vents			
without vents			
Plug snap ejector for COMBICON connectors for use with ME...OTP-MSTBO PS upper housing parts			
for MC connector			
for FMC connector			
for FKCT connector			
For MSTBT connector			
For TVFKCL connector			
For TVFKC connector			
Insert strips for Plug Snap, 1 sheet = 580 or 440 insert strips			
Thermal transfer label, material provided on rolls (1 roll = 200 labels), suitable for the side element of:			
ME … UT …	EML (44X76)R-ME	0828130	1
ME … F-UT …	EML (44X53)R-ME	0828156	1
ME … SF-UT …	EML (29X29)R-ME	0828172	1
ME … UT … BUS …	EML (44X64)R-ME	0828266	1
ME … F-UT … BUS …	EML (44X42)R-ME	0828279	1
ME … UT … TBUS …	EML (44X72)R-ME	0828143	1
ME … F-UT … TBUS …	EML (44X49)R-ME	0828169	1
Metal foot catch for intermediate element			
Shield connection clamp for PCB terminal block	ME-SAS	2853899	10
Keying section for MSTBO headers, is inserted into the recess on the header	CR MSTBO-G1	2199618	100
Coding profile, for COMBICON headers, is inserted into the slot on the plug, red insulating material	CP-MSTB	1734634	100

Ordering data		
Type	Order No.	Pcs. / Pkt.
ME B-17,5 MSTBO GN	2906869	10
ME B-17,5 MKDSO GN	2906885	10
ME B-17,5 MSTBO KMGY	2853776	10
ME B-17,5 MKDSO KMGY	2854115	10
ME B-17,5 FKDSO KMGY	2200566	50
ME 35 UTM	2908265	10
ME 35 UTMG	2908275	10
ME PS-17,5 MC TRANS	2279842	50
ME PS-17,5 FMC TRANS	2279949	50
ESL 15X5	0822592	10
EML (44X76)R-ME	0828130	1
EML (44X53)R-ME	0828156	1
EML (29X29)R-ME	0828172	1
EML (44X64)R-ME	0828266	1
EML (44X42)R-ME	0828279	1
EML (44X72)R-ME	0828143	1
EML (44X49)R-ME	0828169	1
ME MF 17,5	2908281	50
ME-SAS	2853899	10
CR MSTBO-G1	2199618	100
CP-MSTB	1734634	100

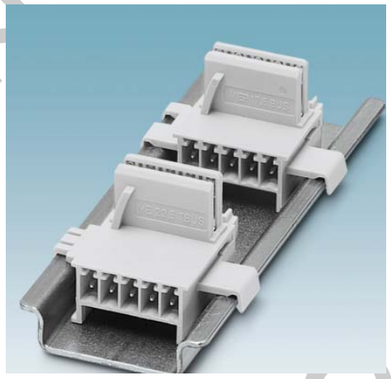
Ordering data		
Type	Order No.	Pcs. / Pkt.
ME B-22,5 MSTBO GN	2907156	10
ME B-22,5 MKDSO GN	2907143	10
ME B-12,5 3MSTBO GN	2709176	50
ME B-22,5 MSTBO KMGY	2907965	50
ME B-22,5 MKDSO KMGY	2908498	10
ME B-22,5 FKDSO KMGY	2200567	50
ME B-12,5 3MSTBO KMGY	2279787	50
ME 45 UTM GN	2853404	10
ME 45 UTMG GN	2853417	10
ME PS-22,5 MC TRANS	2279745	50
ME PS-22,5 FMC TRANS	2279648	50
ME PS-22,5 FKCT TRANS	2279046	50
ME PS-22,5 MSTBT TRANS	2279062	50
ME PS-22,5 TVFKCL TRANS	2279088	50
ME PS-22,5 TVFKC TRANS	2279075	50
ESL 20X5	0822589	10
EML (44X76)R-ME	0828130	1
EML (44X53)R-ME	0828156	1
EML (29X29)R-ME	0828172	1
EML (44X64)R-ME	0828266	1
EML (44X42)R-ME	0828279	1
EML (44X72)R-ME	0828143	1
EML (44X49)R-ME	0828169	1
ME MF 17,5	2908281	50
ME-SAS	2853899	10
CR MSTBO-G1	2199618	100
CP-MSTB	1734634	100

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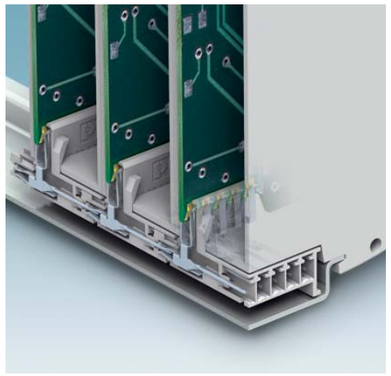
TBUS DIN rail connector



For ME and ME MAX housing ranges
– Equally suitable for both housing ranges
– For housing widths of 6.2 mm, 17.5 mm, and 22.5 mm and multiples thereof
– Snap-on mounting on standard DIN rail NS 35/7,5 or NS 35/15
.



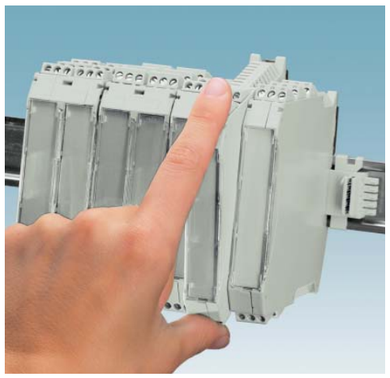
Automatic contacting
– For parallel data transmission and power supply (125 V, 8 A)
– 5-pos.
– Gold-plated contacts
– “Self-constructing” contact chain in the housing pitch



Direct plug-in technology
– When the devices are snapped on, the contact points on the PCB slide directly into the gold-plated contact forks of the bus connector

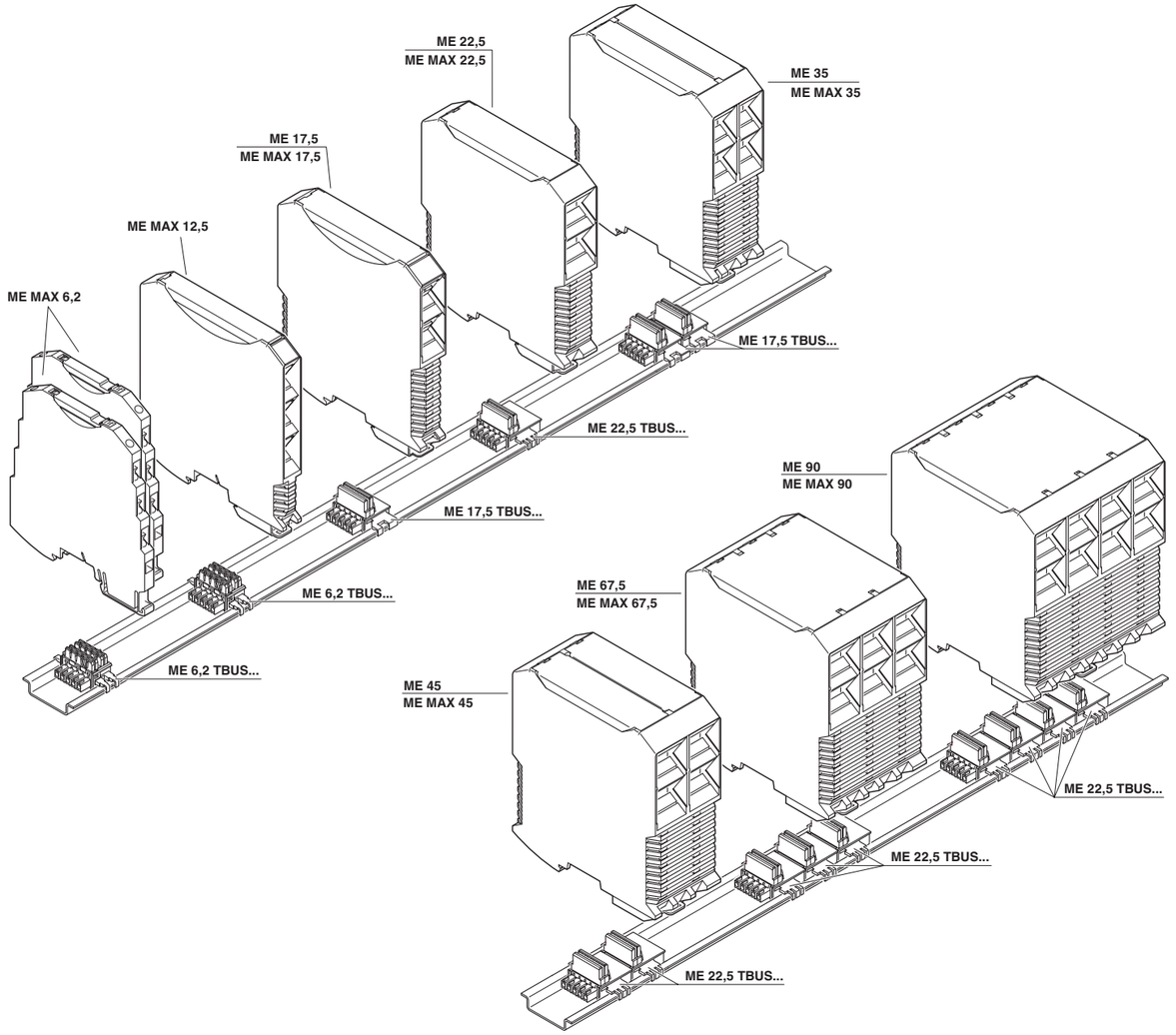


Signal supply
– MINI COMBICON plug-in connectors are used for the signal supply
– Supply clip for strain relief



Individual modules can be unplugged
– When a device is unplugged from the topology, the signal string is not interrupted

Electronics housing for industrial electronics and semi-industrial applications
Modular component housing for industrial electronics



	ME MAX 6,2 Page 682	ME MAX 12,5 Page 684	ME 17,5 Page 666 ME MAX 17,5 Page 685	ME 22,5 Page 667 ME MAX 22,5 Page 686	ME 35 Page 667 ME MAX 35 Page 687	ME 45 Page 668 ME MAX 45 Page 688	ME 67,5 Page 669 ME MAX 67,5 Page 689	ME 90 Page 669 ME MAX 90 Page 690
ME 6,2 TBUS-2,5/5-ST-3,81 KMGY (2969401)	2 housings can be mounted on one TBUS	1 TBUS required per housing						
ME 17,5 TBUS-1,5/5-ST-3,81 KMGY (2713645)			1 TBUS required per housing		2 TBUS required per housing			
ME 22,5 TBUS-1,5/5-ST-3,81 KMGY (2713722)				1 TBUS required per housing		2 TBUS required per housing	3 TBUS required per housing	4 TBUS required per housing

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ME MAX electronics housing



ME MAX U-U1 version electronics housings provide a connection level on one side of the housing combined with a universal cover. The other side of the housing is completely closed with a universal cover. This version is available in design widths from 17.5 up to 90 mm, either with or without vents. The height of the housing is 114.5 mm.



ME MAX 2-2 version electronics housings provide 2 connection levels on each side of the housing. This version is available in design widths from 17.5 up to 90 mm, either with or without vents. The height of the housing is 114.5 mm.



ME MAX 2-2 version electronics housings are also available in a super-flat design. This version is available in design widths of 17.5 mm, 22.5 mm, and 45 mm. The height of the housing is 70.4 mm.



ME MAX 3-3 version electronics housings provide 3 connection levels on each side of the housing. This version is available in design widths from 12.5 up to 90 mm, either with or without vents. The height of the housing is 114.5 mm.

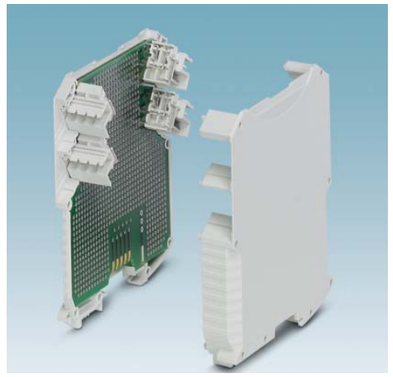


ME MAX 3-3 version electronics housings are also available in a flat design. This version is available in design widths of 22.5 mm and 45 mm. The height of the housing is 92 mm.



ME MAX 6,2 version electronics housings provide 4 connection levels on each side of the housing. The connection technology, which is available in screw or spring-cage format, is firmly integrated in the housing. The height of the housing is 102.5 mm.

Electronics housing for industrial electronics and semi-industrial applications
Modular component housing for industrial electronics

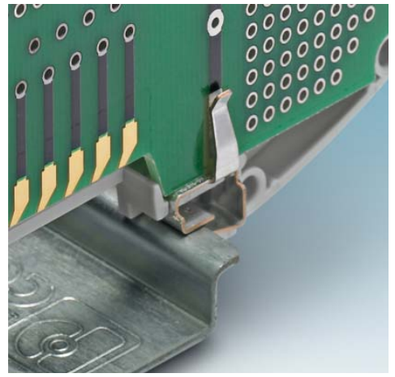


Mounting principle

Electronic components and PCB connection technology can be assembled and soldered in a single step. Once the assembled PCB has been inserted into the narrow housing half-shell, the second housing half-shell is simply snapped on.



Next, the fitted cover is inserted and the transparent cover is mounted. Finally, the metal foot catch is added.



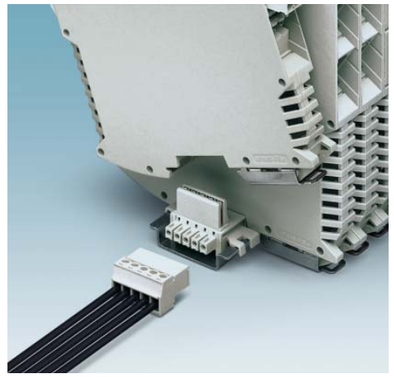
Functional earth ground contact

A functional earth ground contact is available to improve electromagnetic compatibility. It connects the inserted PCB directly to the grounded DIN rail.



Function-oriented design

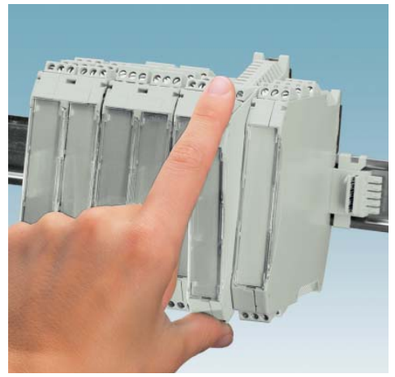
The housing has a large front surface for high-position connectors or operating and setting elements. The fitted cover can be easily modified, labeled, and even removed using a tool if necessary. The hinged transparent cover adds the final touch. The printing is thereby shielded against harmful environmental influences; the setting elements are protected effectively.



DIN rail connectors

The ME…TBUS connector snaps onto all standard NS 35/7.5 or NS 35/15 DIN rails taking up the minimum of space and providing a convenient means of wiring signal and supply voltages.

The bus connection is “self-constructing”, adopting the same pitch as the devices. Snap on the connector, swivel the modules, and you're done! Complex pre-configuration or reworking of the bus connection on site are a thing of the past.



Removing individual modules from the topology

The design allows individual devices to be swung out of the module group. The contact chain is not interrupted.
Gold-plated contacts ensure the required level of transmission reliability. The familiar MINI COMBICON plug-in connectors from Phoenix Contact are suitable for the signal supply.

Electronics housing for industrial electronics and semi-industrial applications

Modular component housing for industrial electronics

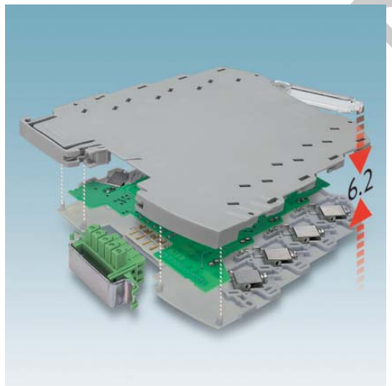
ME MAX housing	Type	Page	Width [mm]	PCB terminal block				COMBICON connection					Number of terminal points
				Screw			Push-in	Header					
				3.5 mm pitch MKDSO 1,5/...3,5 Page 89	5 mm pitch MKDSO 2,5/... Page 113	7.5 mm pitch MKDSO 2,5 HV...7,5 Page 125	5 mm pitch FKDSO 2,5/.... Page 153	3.5 mm pitch MCO 1,5/…3,5 Page 232	5 mm pitch MSTBO 2,5/… Page 322	Pitch: 5, touch proof MSTBO 2,5/…P Page 325	Pitch: 5, THR MSTBO 2,5/…THR UTMG Page 309	7.25 mm pitch GMSTBO 2,5 HV/…THR UTMG Page 510	
	ME MAX 12,5…	684	12.5	• 3-pos.	• 2-pos.		• 2-pos.	• 3-pos.	• 2-pos.	• 2-pos.	• 2-pos.		3 per housing side
	ME MAX 17,5…	685	17.5	• 4-pos.	• 3-pos.	• 2-pos.	• 3-pos.	• 4-pos.	• 3-pos.	• 3-pos.	• 3-pos.	• 2-pos.	Min. 0 to max. 3 per housing side
	ME MAX 22,5…	686	22.5	• 5-pos.	• 4-pos.	• 3-pos.	• 4-pos.	• 5-pos.	• 4-pos.	• 4-pos.	• 4-pos.	• 3-pos.	Min. 0 to max. 3 per housing side
	ME MAX 35…	687	35	• 4-pos.	• 3-pos.	• 2-pos.	• 3-pos.	• 4-pos.	• 3-pos.	• 3-pos.	• 3-pos.	• 2-pos.	Min. 0 to max. 6 per housing side
	ME MAX 45…	688	45	• 5-pos.	• 4-pos.	• 3-pos.	• 4-pos.	• 5-pos.	• 4-pos.	• 4-pos.	• 4-pos.	• 3-pos.	Min. 0 to max. 6 per housing side
	ME MAX 67,5…	689	67.5	• 5-pos.	• 4-pos.	• 3-pos.	• 4-pos.	• 5-pos.	• 4-pos.	• 4-pos.	• 4-pos.	• 3-pos.	Min. 0 to max. 9 per housing side
	ME MAX 90…	690	90	• 5-pos.	• 4-pos.	• 3-pos.	• 4-pos.	• 5-pos.	• 4-pos.	• 4-pos.	• 4-pos.	• 3-pos.	Min. 0 to max. 12 per housing side
	ME MAX 22,5 F…	686	22.5	• 5-pos.	• 4-pos.	• 3-pos.	• 4-pos.	• 5-pos.	• 4-pos.	• 4-pos.	• 4-pos.	• 3-pos.	3 per housing side
	ME MAX 45 F…	688	45	• 5-pos.	• 4-pos.	• 3-pos.	• 4-pos.	• 5-pos.	• 4-pos.	• 4-pos.	• 4-pos.	• 3-pos.	6 per housing side
	ME MAX 17,5 SF…	685	17.5	• 4-pos.	• 3-pos.	• 2-pos.	• 3-pos.	• 4-pos.	• 3-pos.	• 3-pos.	• 3-pos.	• 2-pos.	2 per housing side
	ME MAX 22,5 SF…	686	22.5	• 5-pos.	• 4-pos.	• 3-pos.	• 4-pos.	• 5-pos.	• 4-pos.	• 4-pos.	• 4-pos.	• 3-pos.	2 per housing side
	ME MAX 45 SF…	688	45	• 5-pos.	• 4-pos.	• 3-pos.	• 4-pos.	• 5-pos.	• 4-pos.	• 4-pos.	• 4-pos.	• 3-pos.	4 per housing side

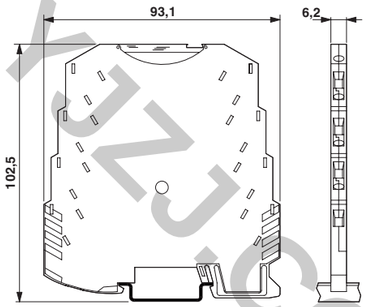
ME MAX housing	Type	Page	Width [mm]	Filler plug		
				ME MAX B-12,5 Page 684	ME MAX B-17,5 Page 685	ME MAX B-22,5 Page 686
	ME MAX 12,5…	684	12.5	•		
	ME MAX 17,5…	685	17.5		•	
	ME MAX 22,5…	686	22.5			•
	ME MAX 35…	687	35		•	
	ME MAX 45…	688	45			•
	ME MAX 67,5…	689	67.5			•
	ME MAX 90…	690	90			•
	ME MAX 22,5 F…	686	22.5			•
	ME MAX 45 F…	688	45			•
	ME MAX 17,5 SF…	685	17.5		•	
	ME MAX 22,5 SF…	686	22.5			•
	ME MAX 45 SF…	688	45			•

Specified number of positions = number of positions per terminal point

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ME MAX modular component housing





The electronic housings ME MAX 6,2 make it possible to realize individual and space-saving electronics components with a width of 6.2 mm.

The connection method is firmly integrated in the housing, making it ready to take the components. Eight connections with a cross section of up to 2.5 mm² are available over four levels. These are available either as SCrew connection (SC) or in Spring-cage technology (SP).

Simple through-contacting

The DIN rail bus connectors are simply pushed into the DIN rail and snapped together. All signals contact automatically when the housing is snapped on. When the device is removed from the whole, the contact chain is not interrupted.

Further advantages:

– The same PCB geometry for spring-cage and screw versions
– Housing can be laser printed with conventional laser systems
– Simple device tests thanks to integrated test openings
– Transparent front cover can be swiveled, reversed, and labeled
– IP20 shock protection

More housing dimensions, the layout of the PCBs, their dimensions and assembly areas can be found in the download center under: www.phoenixcontact.net/products

Notes:
The rated connection data refers to untreated conductors without ferrules.
Torque [Nm] 0,5-0,6.
1) DIN rail connectors see page 676.



8-pos. with screw connection, width: 6.2 mm

cULus

Technical data

Type of housing					
Electronic housings	PBT / V0				
Stripping length	12 mm				
Connection data	solid [mm²]	stranded [mm²]	AWG	I [A]	U [V]
	0.2 - 2.5	0.2 - 2.5	26 - 12	8	250

Ordering data

Description	Type	Order No.	Pcs. / Pkt.
Electronic housings			
For DIN rail bus connector	**ME MAX 6,2 SC 4-4 KMGY**	**2713094**	10

Accessories

DIN rail bus connector, 2 x 5-pos.1)			
Zack flat marker strip, 10-section, unprinted: for individual labeling with TML (101X4,2)R TR, X–PEN or CMS–P1– PLOTTER, sufficient for labeling 100 terminal blocks per pack	**ZBF 6:UNBEDRUCKT**	**0808710**	10
Marker pen, refillable, for manual labeling, 0.35 mm line thickness, can be refilled with CMS–INK–TR–C 5, delivered without ink	**X-PEN 0,35**	**0811228**	1
Screwdriver	**SZF 1-0,6X3,5**	**1204517**	10



8-pos. with spring-cage connection, width: 6.2 mm

cULus

Technical data

	PBT / V0				
	8 mm				
	solid [mm²]	stranded [mm²]	AWG	I [A]	U [V]
	0.2 - 2.5	0.2 - 2.5	24 - 12	8	250

Ordering data

Type	Order No.	Pcs. / Pkt.
ME MAX 6,2 SP 4-4 KMGY	**2713104**	10

Accessories

ZBF 6:UNBEDRUCKT	**0808710**	10
X-PEN 0,35	**0811228**	1
SZF 1-0,6X3,5	**1204517**	10



8-pos. with screw connection, for DIN rail bus connectors, width: 6.2 mm

cULus

Technical data

	PBT / V0				
	12 mm				
	solid [mm²]	stranded [mm²]	AWG	I [A]	U [V]
	0.2 - 2.5	0.2 - 2.5	26 - 12	8	250

Ordering data

Type	Order No.	Pcs. / Pkt.
ME MAX 6,2 SC-TBUS 4-4 KMGY	**2869634**	10

Accessories

ME 6,2 TBUS-2 1,5/5-ST-3,81KMGY	**2969401**	10
ZBF 6:UNBEDRUCKT	**0808710**	10
X-PEN 0,35	**0811228**	1
SZF 1-0,6X3,5	**1204517**	10



8-pos. with spring-cage connection, for DIN rail bus connectors, width: 6.2 mm

cULus

Technical data

	PBT / V0				
	8 mm				
	solid [mm²]	stranded [mm²]	AWG	I [A]	U [V]
	0.2 - 2.5	0.2 - 2.5	24 - 12	8	250

Ordering data

Type	Order No.	Pcs. / Pkt.
ME MAX 6,2 SP-TBUS 4-4 KMGY	**2869647**	10

Accessories

ME 6,2 TBUS-2 1,5/5-ST-3,81KMGY	**2969401**	10
ZBF 6:UNBEDRUCKT	**0808710**	10
X-PEN 0,35	**0811228**	1
SZF 1-0,6X3,5	**1204517**	10

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ME MAX modular component housing

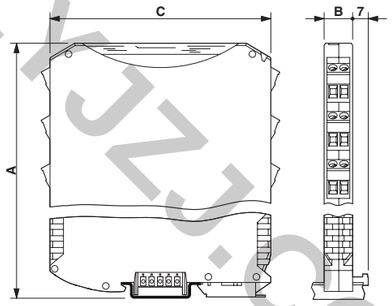


The features at a glance:

- Large PCB surface despite compact housing dimensions
- DIN rail bus connector as an option
- Simple exchange of modules without having to break the contact chain
- Permanent or pluggable connection methods can be mixed on up to three connection levels, with different pitches
- Pluggable connection with screw spring-cage or fast connection methods
- Large front surface for connectors or operating and setting elements with a high number of positions
- The fitted cover is easy to adapt and print
- The transparent front cover can be swung out
- Functional earth ground contact optional
- labels for additional marking optional.

More housing dimensions, the layout of the PCBs, their dimensions and assembly areas can be found in the download center under: www.phoenixcontact.net/products

Notes:
For PCB connection technology, see page 680.
1) For information on power dissipation, see page 770.
2) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.
3) Please observe the derating curves. Derating curves of further combination options on request.
4) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.
5) DIN rail connectors see page 676.



A = 114.5 mm; B = 12.5 mm; C = 99 mm



Width: 12.5 mm

Technical data

Power dissipation P_V at 20°C in horizontal mounting position[1]	ME MAX 12,5 3-3 TBUS KMGY
Mounted in rows without spacing	4.4 W
Mounted in rows with min. 20 mm spacing	8.4 W
Type of housing	
Electronic housings	
Connection data	Polyamide / V0

solid [mm²]	stranded [mm²]	AWG	I [A]	U [V]
0.2 - 2.5	0.2 - 2.5	24 - 12	12[3]	250
0.2 - 2.5	0.2 - 2.5	24 - 12	16[4]	250
0.14 - 2.5	0.14 - 2.5	26 - 14	24[2]	250
-	-	-	8	125

MSTBT 2,5/...
MSTBT 2,5 HC/...
MKDSO 2,5/...
ME 6,2 TBUS-2...

Ordering data

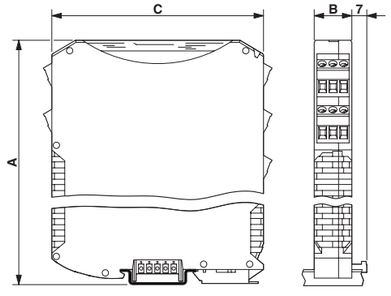
Description	Type	Order No.	Pcs. / Pkt.
Electronic housing, comprising left and right housing shells, front plate, transparent cover, metal foot catch and spring			
6x2 positions, without vents, with TBUS option	**ME MAX 12,5 G 3-3 TBUS KMGY**	**2279017**	10
6x2 positions, with vents, with TBUS option	**ME MAX 12,5 3-3 TBUS KMGY**	**2279020**	10

Accessories

Pin strip for soldering into the PCB, for contacting in DIN rail bus connectors			
Box packaging	**ME TBUS PST 1,5/ 5-3,81**	**2279033**	50
Tape-on-reel packing	**ME TBUS PST 1,5/ 5-3,81 THRR32**	**2914369**	440
DIN rail bus connector, 2 x 5-pos.[5] gray	**ME 6,2 TBUS-2 1,5/5-ST-3,81KMGY**	**2969401**	10
Filler plugs, for unoccupied terminal points	**ME MAX B-12,5 KMGY**	**2914660**	10

ME MAX modular component housing

Notes:
Only actuate the TBUS connector when in no load condition. If for operating reasons small loads must be switched, empirical values are available upon request.
The connection cross section refers to untreated conductors without ferrules.
For PCB connection technology, see page 680.
1) For information on power dissipation, see page 770.
2) As an alternative, the PCB connection system is also available as single-section designs. Versions with spring-cage or fast connection methods are thus possible.
3) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.
4) Please observe the derating curves. Derating curves of further combination options on request.
5) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.
6) DIN rail connectors see page 676.



A = 70.4, 114.5 mm; B = 17.5 mm; C = 85 or 99 mm



Width: 17.5 mm

Technical data

Power dissipation P_V at 20°C in horizontal mounting position[1]	ME MAX 17,5 U-U1 KMGY	ME MAX 17,5 G U-U1 KMGY
Mounted in rows without spacing	5.2 W	4.9 W
Mounted in rows with min. 20 mm spacing	10.8 W	8.9 W
Type of housing		
Electronic housings		
Connection data	Polyamide / V0	

solid [mm²]	stranded [mm²]	AWG	I [A]	U [V]
0.2 - 2.5	0.2 - 2.5	24 - 12	12[4]	250
0.2 - 2.5	0.2 - 2.5	24 - 12	16[5]	250
0.14 - 2.5	0.14 - 2.5	26 - 14	24[3]	250
-	-	-	8	125

MSTBT 2,5/...
MSTBT 2,5 HC/...
MKDSO 2,5/...
ME...TBUS 1,5/...

Ordering data

Description	Width [mm]	Type	Order No.	Pcs. / Pkt.
Electronic housing, comprising left and right housing shells, front plate, transparent cover, metal foot catch and spring				
(1 x 3 positions), with vents		**ME MAX 17,5 U-U1 KMGY**	**2713641**	10
(1 x 3 positions), without vents		**ME MAX 17,5 G U-U1 KMGY**	**2713515**	10
(4 x 3 positions), with vents		**ME MAX 17,5 2-2 KMGY**	**2713599**	10
(4 x 3 positions), without vents		**ME MAX 17,5 G 2-2 KMGY**	**2713609**	10
(6 x 3 positions), with vents		**ME MAX 17,5 3-3 KMGY**	**2713612**	10
(6 x 3 positions), without vents		**ME MAX 17,5 G 3-3 KMGY**	**2713531**	10
Electronic housing, superflat design, height x depth (70.4 x 85 mm)				
(4 x 3 positions), without vents		**ME MAX 17,5 SF G 2-2 KMGY**	**2901369**	10

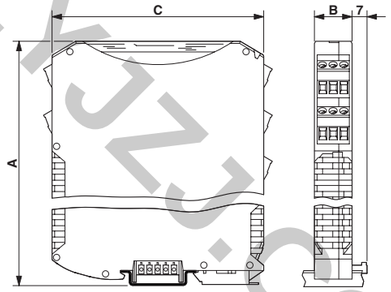
Accessories

PCB connection technology set for 6 x 3 positions (18-pos.) with a 5 mm pitch[2]			
PCB terminal blocks		**MKDSO 2,5/ 3-6 SET KMGY**	**2713735**	1
COMBICON headers and screw plugs		**MSTBO 2,5/ 3-6 ST SET KMGY**	**2713748**	1
PCB, for custom fitting with COMBICON connection method, for high design (114.5 mm)		**ME MAX LP SAMPLE MSTBO 2-2**	**2713777**	5
DIN rail bus connector, 5-pos.[6]				
		ME 17,5 TBUS 1,5/ 5-ST-3,81 KMGY	**2713645**	50
Filler plugs, for unoccupied terminal points		**ME MAX B-17,5 KMGY**	**2706959**	50
Filler plugs for TBUS recess		**ME MAX TBUS BS KMGY**	**2199650**	50
Functional earth ground contact, for connection of the PCB to the grounded DIN rail, for ME BUS, ME TBUS and ME MAX housings		**ME BUS FE CONTACT**	**2278076**	50
Label sheet for laser printer, for electronic housing ME MAX				
1 sheet = 242 labels	12	**BMKLT 14X12 WH**	**0813789**	2

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ME MAX modular component housing

Notes:
Only actuate the TBUS connector when in no load condition. If for operating reasons small loads must be switched, empirical values are available upon request.
The connection cross section refers to untreated conductors without ferrules.
For PCB connection technology, see page 680.
1) For information on power dissipation, see page 770.
2) As an alternative, the PCB connection system is also available as single-section designs. Versions with spring-cage or fast connection methods are thus possible.
3) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.
4) Please observe the derating curves. Derating curves of further combination options on request.
5) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.
6) DIN rail connectors see page 676.



A = 70.4, 92, 114.5 mm; B = 22.5 mm; C = 85, 99 mm



Width: 22.5 mm

Technical data

Power dissipation P_V at 20°C in horizontal mounting position1)	ME MAX 22,5 U-U1 KMGY	ME MAX 22,5 G U-U1 KMGY	ME MAX 22,5 F G 3-3 KMGY	
Mounted in rows without spacing	6.1 W	5.7 W	5.5 W	-
Mounted in rows with min. 20 mm spacing	12.1 W	10.1 W	9.6 W	-
Type of housing				
Electronic housings	Polyamide / V0			

Connection data	solid [mm²]	stranded [mm²]	AWG	I [A]	U [V]
MSTBT 2,5/...	0.2 - 2.5	0.2 - 2.5	24 - 12	12[4]	250
MSTBT 2,5 HC/...	0.2 - 2.5	0.2 - 2.5	24 - 12	16[5]	250
MKDSO 2,5/...	0.14 - 2.5	0.14 - 2.5	26 - 14	24[3]	250
ME...TBUS 1,5/...	-	-	-	8	125

Ordering data

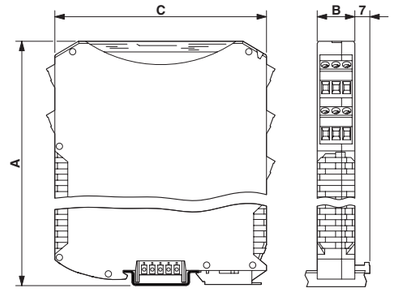
Description	Width [mm]	Type	Order No.	Pcs. / Pkt.
Electronic housing, comprising left and right housing shells, front plate, transparent cover, metal foot catch and spring				
(1 x 4 positions), with vents		**ME MAX 22,5 U-U1 KMGY**	**2713476**	10
(1 x 4 positions), without vents		**ME MAX 22,5 G U-U1 KMGY**	**2713489**	10
(4 x 4 positions), with vents		**ME MAX 22,5 2-2 KMGY**	**2713625**	10
(4 x 4 positions), without vents		**ME MAX 22,5 G 2-2 KMGY**	**2713638**	10
(6 x 4 positions), with vents		**ME MAX 22,5 3-3 KMGY**	**2713939**	10
(6 x 4 positions), without vents		**ME MAX 22,5 G 3-3 KMGY**	**2713942**	10
Electronic housing, comprising left and right housing shells, front plate, transparent cover, metal foot catch and spring				
Low profile design, Height x depth (92 x 85 mm), (6 x 4 positions), without vents		**ME MAX 22,5 F G 3-3 KMGY**	**2869388**	10
Extremely low-profile design, Height x depth (70.4 x 85 mm), (4 x 4 positions), without vents		**ME MAX 22,5 SF G 2-2 KMGY**	**2869362**	10

Accessories

PCB connection technology set for 6 x 4 positions (24-pos.) with a 5 mm pitch2)			
PCB terminal blocks		**MKDSO 2,5/4-6 SET KMGY**	**2713751**	1
COMBICON headers and screw plugs		**MSTBO 2,5/4-6 ST SET KMGY**	**2713764**	1
PCB, for custom fitting with COMBICON connection method, for high design (114.5 mm)		**ME MAX LP SAMPLE MSTBO 2-2**	**2713777**	5
DIN rail bus connector, 5-pos.6)		**ME 22,5 TBUS 1,5/ 5-ST-3,81 KMGY**	**2713722**	50
Filler plugs, for unoccupied terminal points		**ME MAX B-22,5 KMGY**	**2707929**	10
Filler plugs for TBUS recess		**ME MAX TBUS BS KMGY**	**2199650**	50
Functional earth ground contact, for connection of the PCB to the grounded DIN rail, for ME BUS, ME TBUS and ME MAX housings		**ME BUS FE CONTACT**	**2278076**	50
Label sheet for laser printer, for electronic housing ME MAX				
1 sheet = 176 labels	12	**BMKLT 19X12 WH**	**0813792**	4

ME MAX modular component housing

Notes:
Only actuate the TBUS connector when in no load condition. If for operating reasons small loads must be switched, empirical values are available upon request.
The connection cross section refers to untreated conductors without ferrules.
For PCB connection technology, see page 680.
1) For information on power dissipation, see page 770.
2) As an alternative, the PCB connection system is also available as single-section designs. Versions with spring-cage or fast connection methods are thus possible.
3) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.
4) Please observe the derating curves. Derating curves of further combination options on request.
5) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.
6) DIN rail connectors see page 676.



A = 114.5 mm; B = 35 mm; C = 99 mm,



Width: 35 mm

Technical data

Power dissipation P_V at 20°C in horizontal mounting position1)	ME MAX 35 U-U1 KMGY	ME MAX 35 G U-U1 KMGY		
Mounted in rows without spacing	7.9 W	7.5 W	-	-
Mounted in rows with min. 20 mm spacing	16.3 W	13.8 W	-	-
Type of housing				
Electronic housings	Polyamide / V0			

Connection data	solid [mm²]	stranded [mm²]	AWG	I [A]	U [V]
MSTBT 2,5/...	0.2 - 2.5	0.2 - 2.5	24 - 12	12[4]	250
MSTBT 2,5 HC/...	0.2 - 2.5	0.2 - 2.5	24 - 12	16[5]	250
MKDSO 2,5/...	0.14 - 2.5	0.14 - 2.5	26 - 14	24[3]	250
ME...TBUS 1,5/...	-	-	-	8	125

Ordering data

Description	Width [mm]	Type	Order No.	Pcs. / Pkt.
Electronic housing, comprising left and right housing shells, 2 front plates, 2 transparent covers, intermediate element, metal foot catch and spring				
(2 x 3 positions), with vents		**ME MAX 35 U-U1 KMGY**	**2713667**	10
(2 x 3 positions), without vents		**ME MAX 35 G U-U1 KMGY**	**2713528**	10
(8 x 3 positions), with vents		**ME MAX 35 2-2 KMGY**	**2713670**	10
(8 x 3 positions), without vents		**ME MAX 35 G 2-2 KMGY**	**2713683**	10
(12 x 3 positions), with vents		**ME MAX 35 3-3 KMGY**	**2713696**	10
(12 x 3 positions), without vents		**ME MAX 35 G 3-3 KMGY**	**2713544**	10
Electronic housing, as above, but with a wide transparent cover and a wide front plate				
(8 x 3 positions), with vents		**ME MAX 35 LC 2-2 KMGY**	**2200597**	10
(12 x 3 positions), with vents		**ME MAX 35 LC 3-3 KMGY**	**2200596**	10

Accessories

PCB connection technology set for 6 x 3 positions (18-pos.) with a 5 mm pitch2)			
PCB terminal blocks		**MKDSO 2,5/ 3-6 SET KMGY**	**2713735**	1
COMBICON headers and screw plugs		**MSTBO 2,5/ 3-6 ST SET KMGY**	**2713748**	1
PCB, for custom fitting with COMBICON connection method, for high design (114.5 mm)		**ME MAX LP SAMPLE MSTBO 2-2**	**2713777**	5
DIN rail bus connector, 5-pos.6)		**ME 17,5 TBUS 1,5/ 5-ST-3,81 KMGY**	**2713645**	50
Filler plugs, for unoccupied terminal points		**ME MAX B-17,5 KMGY**	**2706959**	50
Filler plugs for TBUS recess		**ME MAX TBUS BS KMGY**	**2199650**	50
Functional earth ground contact, for connection of the PCB to the grounded DIN rail, for ME BUS, ME TBUS and ME MAX housings		**ME BUS FE CONTACT**	**2278076**	50
Label sheet for laser printer, for electronic housing ME MAX				
1 sheet = 110 labels	12	**BMKLT 31,5X12 WH**	**0813802**	4

For additional information, visit www.phoenixcontact.net/products

www.dzyjzj.com

ME MAX modular component housing

Notes:

Only actuate the TBUS connector when in no load condition. If for operating reasons small loads must be switched, empirical values are available upon request.

The connection cross section refers to untreated conductors without ferrules.

For PCB connection technology, see page 680.

[1]) For information on power dissipation, see page 770.

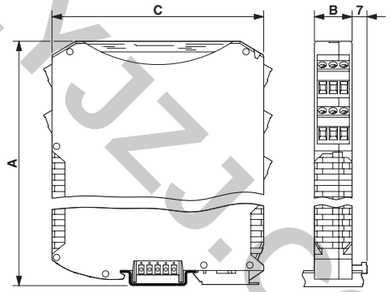
[2]) As an alternative, the PCB connection system is also available as single-section designs. Versions with spring-cage or fast connection methods are thus possible.

[3]) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.

[4]) Please observe the derating curves. Derating curves of further combination options on request.

[5]) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

[6]) DIN rail connectors see page 676.



A = 70.4, 92, 114.5 mm; B = 45 mm; C = 85, 99 mm



Width: 45 mm

Technical data

Power dissipation P_V at 20°C in horizontal mounting position[1])	ME MAX 45 U-U1 KMGY	ME MAX 45 G U-U1 KMGY		
Mounted in rows without spacing	8.2 W	7.6 W	-	-
Mounted in rows with min. 20 mm spacing	16.5 W	14.1 W	-	-
Type of housing				
Electronic housings	Polyamide / V0			
Connection data	solid	stranded		I	U
	[mm²]		AWG	[A]	[V]
MSTBT 2,5/...	0.2 - 2.5	0.2 - 2.5	24 - 12	12[4])	250
MSTBT 2,5 HC/...	0.2 - 2.5	0.2 - 2.5	24 - 12	16[5])	250
MKDSO 2,5/...	0.14 - 2.5	0.14 - 2.5	26 - 14	24[3])	250
ME...TBUS 1,5/...	-	-	-	8	125

Ordering data

Description	Width [mm]	Type	Order No.	Pcs. / Pkt.
Electronic housing, comprising left and right housing shells, 2 front plates, 2 transparent covers, intermediate element, metal foot catch and spring				
(2 x 4 positions), with vents		**ME MAX 45 U-U1 KMGY**	**2713492**	10
(2 x 4 positions), without vents		**ME MAX 45 G U-U1 KMGY**	**2713502**	10
(8 x 4 positions), with vents		**ME MAX 45 2-2 KMGY**	**2713706**	10
(8 x 4 positions), without vents		**ME MAX 45 G 2-2 KMGY**	**2713719**	10
(12 x 4 positions), with vents		**ME MAX 45 3-3 KMGY**	**2713913**	10
(12 x 4 positions), without vents		**ME MAX 45 G 3-3 KMGY**	**2713926**	10
Electronic housing, comprising left and right housing shells, 2 front plates, 2 transparent covers, intermediate element, metal foot catch and spring				
Low profile design, height x depth (92 x 85 mm), (12 x 4 positions), without vents		**ME MAX 45 F G 3-3 KMGY**	**2869391**	10
Superflat design, height x depth (70.4 x 85 mm), (8 x 4 positions), without vents		**ME MAX 45 SF G 2-2 KMGY**	**2869375**	10
Electronic housing, as above, but with a wide transparent cover and a wide front plate				
(8 x 4 positions), with vents		**ME MAX 45 LC 2-2 KMGY**	**2200071**	10
(12 x 4 positions), with vents		**ME MAX 45 LC 3-3 KMGY**	**2890179**	10

Accessories

PCB connection technology set for 6 x 4 positions (24-pos.) with a 5 mm pitch[2])			
PCB terminal blocks COMBICON headers and screw plugs	**MKDSO 2,5/4-6 SET KMGY** **MSTBO 2,5/4-6 ST SET KMGY**	**2713751** **2713764**	1 1
PCB, for custom fitting with COMBICON connection method, for high design (114.5 mm)	**ME MAX LP SAMPLE MSTBO 2-2**	**2713777**	5
DIN rail bus connector, 5-pos.[6])	**ME 22,5 TBUS 1,5/ 5-ST-3,81 KMGY**	**2713722**	50
Filler plugs, for unoccupied terminal points	**ME MAX B-22,5 KMGY**	**2707929**	10
Filler plugs for TBUS recess	**ME MAX TBUS BS KMGY**	**2199650**	50
Functional earth ground contact, for connection of the PCB to the grounded DIN rail, for ME BUS, ME TBUS and ME MAX housings	**ME BUS FE CONTACT**	**2278076**	50
Label sheet for laser printer, for electronic housing ME MAX 1 sheet = 88 labels	12 **BMKLT 41,5X12 WH**	**0813815**	5

ME MAX modular component housing

Notes:

For PCB connection technology, see page 680.

[1]) For information on power dissipation, see page 770.

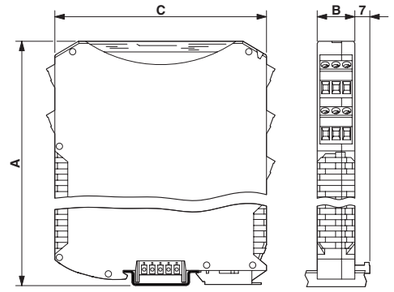
[2]) As an alternative, the PCB connection system is also available as single-section designs. Versions with spring-cage or fast connection methods are thus possible.

[3]) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.

[4]) Please observe the derating curves. Derating curves of further combination options on request.

[5]) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

[6]) DIN rail connectors see page 676.



A = 114.5 mm; B = 67.5 mm; C = 99 mm



Width: 67.5 mm

Technical data

Power dissipation P_V at 20°C in horizontal mounting position[1])	ME MAX 67,5 U-U1 KMGY	ME MAX 67,5 G U-U1 KMGY		
Mounted in rows without spacing	9.1 W	8.5 W	-	-
Mounted in rows with min. 20 mm spacing	17.5 W	15 W	-	-
Type of housing				
Electronic housings	Polyamide / V0			
Connection data	solid	stranded		I	U
	[mm²]		AWG	[A]	[V]
MSTBT 2,5/...	0.2 - 2.5	0.2 - 2.5	24 - 12	12[4])	250
MSTBT 2,5 HC/...	0.2 - 2.5	0.2 - 2.5	24 - 12	16[5])	250
MKDSO 2,5/...	0.14 - 2.5	0.14 - 2.5	26 - 14	24[3])	250
ME...TBUS 1,5/...	-	-	-	8	125

Ordering data

Description	Width [mm]	Type	Order No.	Pcs. / Pkt.
Electronic housing, comprising left and right housing shells, one-piece insertable front plate, one-piece transparent cover, intermediate elements, metal foot catch with spring				
(3 x 4) positions with a 5 mm pitch, with vents		**ME MAX 67,5 U-U1 KMGY**	**2200547**	10
(3 x 4) positions with a 5 mm pitch, without vents		**ME MAX 67,5 G U-U1 KMGY**	**2200528**	10
(12 x 4) positions with a 5 mm pitch, with vents		**ME MAX 67,5 2-2 KMGY**	**2200524**	10
(12 x 4) positions with a 5 mm pitch, without vents		**ME MAX 67,5 G 2-2 KMGY**	**2200525**	10
(18 x 4) positions with a 5 mm pitch, with vents		**ME MAX 67,5 3-3 KMGY**	**2200526**	10
(18 x 4) positions with a 5 mm pitch, without vents		**ME MAX 67,5 G 3-3 KMGY**	**2200527**	10

Accessories

PCB connection technology set for 6 x 4 positions (24-pos.) with a 5 mm pitch[2])			
PCB terminal blocks COMBICON headers and screw plugs	**MKDSO 2,5/4-6 SET KMGY** **MSTBO 2,5/4-6 ST SET KMGY**	**2713751** **2713764**	1 1
PCB, for custom fitting with COMBICON connection method, for high design (114.5 mm)	**ME MAX LP SAMPLE MSTBO 2-2**	**2713777**	5
DIN rail bus connector, 5-pos.[6])	**ME 22,5 TBUS 1,5/ 5-ST-3,81 KMGY**	**2713722**	50
Filler plugs, for unoccupied terminal points	**ME MAX B-22,5 KMGY**	**2707929**	10
Filler plugs for TBUS recess	**ME MAX TBUS BS KMGY**	**2199650**	50
Functional earth ground contact, for connection of the PCB to the grounded DIN rail, for ME BUS, ME TBUS and ME MAX housings	**ME BUS FE CONTACT**	**2278076**	50
Label sheet for laser printer, for electronic housing ME MAX	**BMKLT 41,5X12 WH**	**0813815**	5

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ME MAX modular component housing

Notes:

For PCB connection technology, see page 680.

[1]) For information on power dissipation, see page 770.

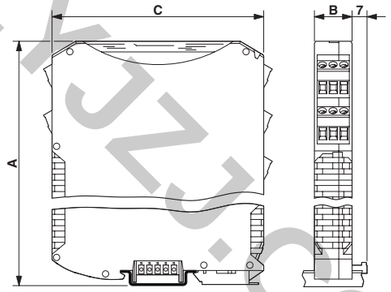
[2]) As an alternative, the PCB connection system is also available as single-section designs. Versions with spring-cage or fast connection methods are thus possible.

[3]) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.

[4]) Please observe the derating curves. Derating curves of further combination options on request.

[5]) Please observe the derating curves and laboratory data sheets. Derating curves of further combination options on request.

[6]) DIN rail connectors see page 676.



A = 114.5 mm; B = 90 mm; C = 99 mm



Width = 90 mm

Technical data

	ME MAX 90 U-U1 KMGY	ME MAX 90 G U-U1 KMGY		
Power dissipation P_V at 20°C in horizontal mounting position[1])				
Mounted in rows without spacing	10.4 W	9.7 W	-	-
Mounted in rows with min. 20 mm spacing	18.9 W	16.4 W	-	-
Type of housing				
Electronic housings	Polyamide / V0			

Connection data	solid [mm²]	stranded [mm²]	AWG	I [A]	U [V]
MSTBT 2,5/...	0.2 - 2.5	0.2 - 2.5	24 - 12	12[4])	250
MSTBT 2,5 HC/...	0.2 - 2.5	0.2 - 2.5	24 - 12	16[5])	250
MKDSO 2,5/...	0.14 - 2.5	0.14 - 2.5	26 - 14	24[3])	250
ME...TBUS 1,5/...	-	-	-	8	125

Ordering data

Description	Width [mm]	Type	Order No.	Pcs. / Pkt.
Electronic housing, comprising left and right housing shells, one-piece insertable front plate, one-piece transparent cover, intermediate elements, metal foot catch with spring				
(4 x 4) positions with 5 mm pitch, with vents		**ME MAX 90 U-U1 KMGY**	**2200546**	10
(4 x 4) positions with 5 mm pitch, without vents		**ME MAX 90 G U-U1 KMGY**	**2200533**	10
(16 x 4) positions with 5 mm pitch, with vents		**ME MAX 90 2-2 KMGY**	**2200529**	10
(16 x 4) positions with 5 mm pitch, without vents		**ME MAX 90 G 2-2 KMGY**	**2200530**	10
(24 x 4) positions with 5 mm pitch, with vents		**ME MAX 90 3-3 KMGY**	**2200531**	10
(24 x 4) positions with 5 mm pitch, without vents		**ME MAX 90 G 3-3 KMGY**	**2200532**	10

Accessories

PCB connection technology set for 6 x 4 positions (24-pos.) with a 5 mm pitch[2])				
PCB terminal blocks		**MKDSO 2,5/4-6 SET KMGY**	**2713751**	1
COMBICON headers and screw plugs		**MSTBO 2,5/4-6 ST SET KMGY**	**2713764**	1
PCB, for custom fitting with COMBICON connection method, for high design (114.5 mm)		**ME MAX LP SAMPLE MSTBO 2-2**	**2713777**	5
DIN rail bus connector, 5-pos.[6])				
		ME 22,5 TBUS 1,5/ 5-ST-3,81 KMGY	**2713722**	50
Filler plugs, for unoccupied terminal points		**ME MAX B-22,5 KMGY**	**2707929**	10
Filler plugs for TBUS recess		**ME MAX TBUS BS KMGY**	**2199650**	50
Functional earth ground contact, for connection of the PCB to the grounded DIN rail, for ME BUS, ME TBUS and ME MAX housings		**ME BUS FE CONTACT**	**2278076**	50
Label sheet for laser printer, for electronic housing ME MAX				
1 sheet = 88 labels	12	**BMKLT 41,5X12 WH**	**0813815**	5

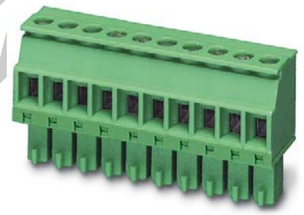
Electronics housing for industrial electronics and semi-industrial applications
Modular component housing for industrial electronics

ME MAX ordering data for delivery quantities < 10 pcs.

Order No.	Type	Pcs. / Pkt.	Description
2201314	ME MAX 17,5 U-U1 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, front plate, transparent cover, metal foot catch and spring, open housing, 3-pos. (1 x 3-pos.), width: 17.5 mm, color: light gray
2201315	ME MAX 17,5 2-2 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, front plate, transparent cover, metal foot catch and spring, open housing, 12-pos. (4 x 3-pos.), width: 17.5 mm, color: light gray
2201316	ME MAX 17,5 3-3 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, front plate, transparent cover, metal foot catch and spring, open housing, 18-pos. (6 x 3-pos.), width: 17.5 mm, color: light gray
2201317	ME MAX 17,5 SF G 2-2 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, front plate, transparent cover, metal foot catch and spring, without vents, 18-pos. (6 x 3-pos.), design: ultra-flat, height x depth (70.4 x 85 mm), width: 17.5 mm, color: light gray
2201318	ME MAX 22,5 U-U1 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, front plate, transparent cover, metal foot catch and spring, open housing, 4-pos. (1 x 4-pos.), width: 22.5 mm, color: light gray
2201319	ME MAX 22,5 2-2 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, front plate, transparent cover, metal foot catch and spring, open housing, 16-pos. (4 x 4-pos.), width: 22.5 mm, color: light gray
2201320	ME MAX 22,5 3-3 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, front plate, transparent cover, metal foot catch and spring, open housing, 24-pos. (6 x 4-pos.), width: 22.5 mm, color: light gray
2201321	ME MAX 22,5 F G 3-3 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, front plate, transparent cover, metal foot catch and spring, closed housing, 24-pos. (6 x 4-pos.), design: flat, width: 22.5 mm, color: light gray
2201322	ME MAX 22,5 SF G 2-2 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, front plate, transparent cover, metal foot catch and spring, closed housing, 16-pos. (4 x 4-pos.), design: ultra-flat, width: 22.5 mm, color: light gray
2201323	ME MAX 35 U-U1 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, 2 x front plate, 2 x transparent cover, intermediate element, metal foot catch and spring, open housing, 6-pos. (2 x 3-pos.), width: 35 mm, color: light gray
2201324	ME MAX 35 LC 2-2 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, one-piece front plate, one-piece transparent cover, intermediate element, metal foot catch and spring, open housing, 24-pos. (8 x 3-pos.), width: 35 mm, color: light gray
2201325	ME MAX 35 LC 3-3 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, one-piece front plate, one-piece transparent cover, intermediate element, metal foot catch and spring, open housing, 36-pos. (12 x 3-pos.), width: 35 mm, color: light gray
2201326	ME MAX 45 U-U1 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, 2 x front plate, 2 x transparent cover, intermediate element, metal foot catch and spring, open housing, 8-pos. (2 x 4-pos.), width: 45 mm, color: light gray
2201328	ME MAX 45 LC 2-2 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, one-piece front plate, one-piece transparent cover, intermediate element, metal foot catch and spring, open housing, 36-pos. (12 x 3-pos.), width: 45 mm, color: light gray
2201329	ME MAX 45 LC 3-3 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, one-piece front plate, one-piece transparent cover, intermediate element, metal foot catch and spring, open housing, 48-pos. (12 x 4-pos.), width: 45 mm, color: light gray
2201330	ME MAX 45 F G 3-3 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, 2 x front plate, 2 x transparent cover, intermediate element, metal foot catch and spring, closed housing, 48-pos. (12 x 4-pos.), design: flat, width: 45 mm, color: light gray
2201331	ME MAX 45 SF G 2-2 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, 2 x front plate, 2 x transparent cover, intermediate element, metal foot catch and spring, closed housing, 32-pos. (8 x 4-pos.), design: ultra-flat, width: 45 mm, color: light gray
2201333	ME MAX 67,5 U-U1 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, one-piece front plate, one-piece transparent cover, intermediate elements, metal foot catch and spring, open housing, 12-pos. (3 x 4-pos.), width: 67.5 mm, color: light gray
2201335	ME MAX 67,5 2-2 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, one-piece front plate, one-piece transparent cover, intermediate elements, metal foot catch and spring, open housing, 48-pos. (12 x 4-pos.), width: 67.5 mm, color: light gray
2201336	ME MAX 67,5 3-3 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, one-piece front plate, one-piece transparent cover, intermediate elements, metal foot catch and spring, open housing, 72-pos. (18 x 4-pos.), width: 67.5 mm, color: light gray
2201337	ME MAX 90 U-U1 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, one-piece front plate, one-piece transparent cover, intermediate elements, metal foot catch and spring, open housing, 16-pos. (4 x 4-pos.), width: 90 mm, color: light gray
2201338	ME MAX 90 2-2 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, one-piece front plate, one-piece transparent cover, intermediate elements, metal foot catch and spring, open housing, 64-pos. (16 x 4-pos.), width: 90 mm, color: light gray
2201339	ME MAX 90 3-3 KMGY VPE 1	1	Electronics housing, consisting of: left and right housing shells, one-piece front plate, one-piece transparent cover, intermediate elements, metal foot catch and spring, open housing, 96-pos. (24 x 4-pos.), width: 90 mm, color: light gray

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Overview of connector plugs for integrated bus connectors and DIN rail connectors



Standard color green



Standard color light gray

Technical data

Connection data	solid [mm²]	stranded [mm²]	AWG	I [A]	U [V]
MCVR 1,5/...	0.14 - 1.5	0.14 - 1.5	28 - 16	8	160
MC 1,5/...	0.14 - 1.5	0.14 - 1.5	28 - 16	8	160
IMC 1,5/ ...	0.14 - 1.5	0.14 - 1.5	28 - 16	8	160

Technical data

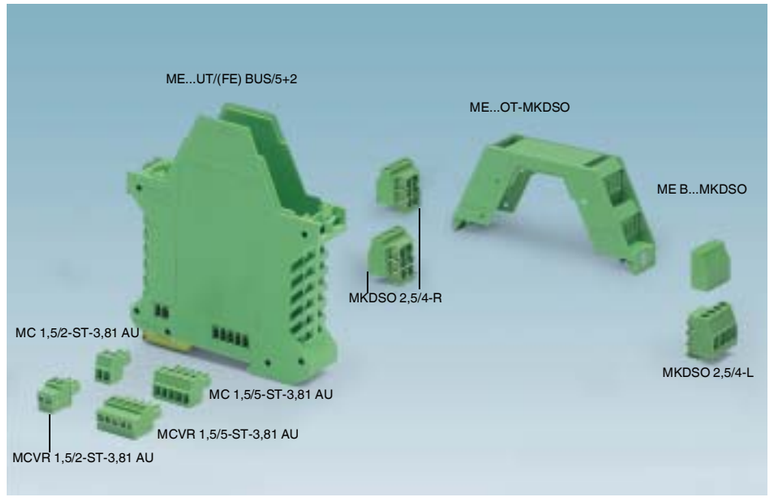
Connection data	solid [mm²]	stranded [mm²]	AWG	I [A]	U [V]
MCVR 1,5/...	0.14 - 1.5	0.14 - 1.5	28 - 16	8	160
MC 1,5/...	0.14 - 1.5	0.14 - 1.5	28 - 16	8	160
IMC 1,5/ ...	0.14 - 1.5	0.14 - 1.5	28 - 16	8	160

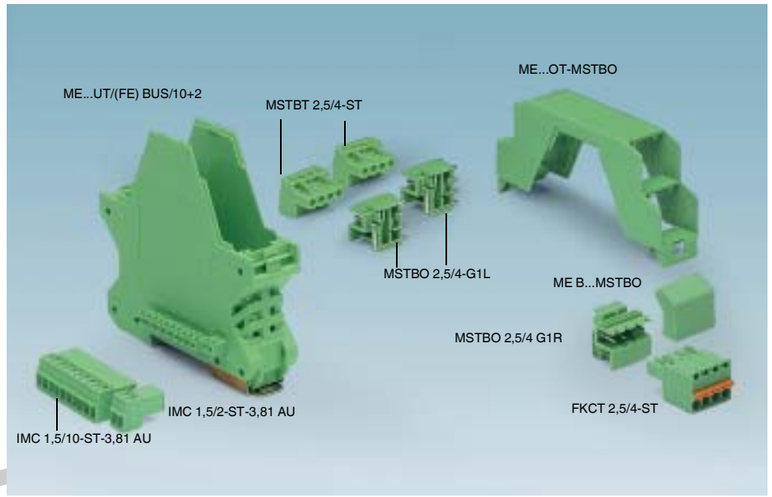
Ordering data

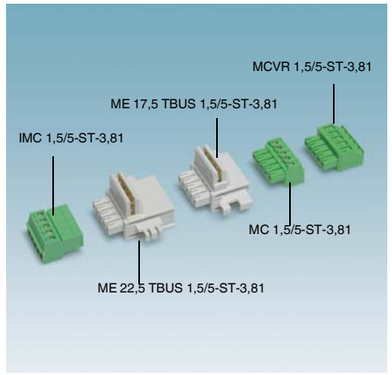
Description	Grid [mm]	No. of pos.	Width [mm]	Type	Order No.	Pcs. / Pkt.
Plugs for bus connectors, plug-in direction parallel to the conductor axis, gold-plated contacts						
	3.81	2		**MCVR 1,5/ 2-ST-3,81 AU**	**1940680**	50
	3.81	5		**MCVR 1,5/ 5-ST-3,81 AU**	**1893203**	50
	3.81	10		**MCVR 1,5/10-ST-3,81 AU**	**1893216**	50
Plugs for bus connectors, plug-in direction parallel to the PCB axis, gold-plated contacts						
	3.81	2		**MC 1,5/ 2-ST-3,81 AU**	**1851999**	50
	3.81	5		**MC 1,5/ 5-ST-3,81 AU**	**1860883**	50
	3.81	10		**MC 1,5/10-ST-3,81 AU**	**1879599**	50
Inverted plugs for bus connectors, plug-in direction parallel to the conductor axis, gold-plated contacts						
	3.81	2		**IMC 1,5/ 2-ST-3,81 AU**	**1943263**	50
	3.81	5		**IMC 1,5/ 5-ST-3,81 AU**	**1943276**	50
	3.81	10		**IMC 1,5/10-ST-3,81 AU**	**1943289**	50
Terminal cover, 1 strip covers up to 12 terminal points						
For terminal opening (male)				**ME B-KA**	**2854173**	50
For plug side (female)				**ME B-SA/NS 35**	**2935959**	10
Spacers, for protection of the input or output contacts for DIN rail NS 35						
				ME DH27 NS 35	**2908760**	50
				ME DH36 NS 35	**2909895**	50
Power clip for TBUS connector, for strain relief in connection with MC(VR) 1,5/5-... or IMC 1,5/5-ST-3,81 AU plugs						

Ordering data

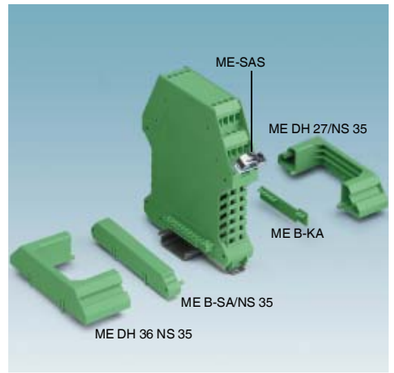
Type	Order No.	Pcs. / Pkt.
MCVR 1,5/ 5-ST-3,81 GY7035 AU	**1719684**	50
MCVR 1,5/10-ST-3,81 KMGY AU	**1936186**	50
MC 1,5/ 5-ST-3,81 GY7035 AU	**1719697**	50
IMC 1,5/ 5-ST-3,81 GY7035 AU	**1719707**	50
ME B-KA KMGY	**2706302**	50
ME B-SA/NS 35 KMGY	**2706700**	10
ME DH 27 NS 35 KMGY	**2706289**	10
ME DH 36 NS 35 KMGY	**2706292**	10
E/ME TBUS NS35 GY	**2713780**	50

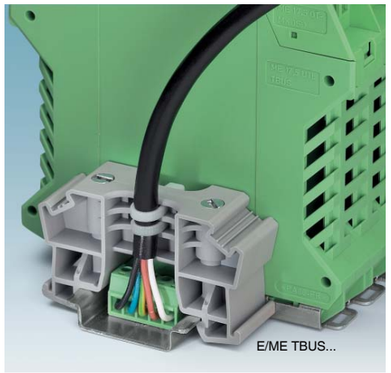




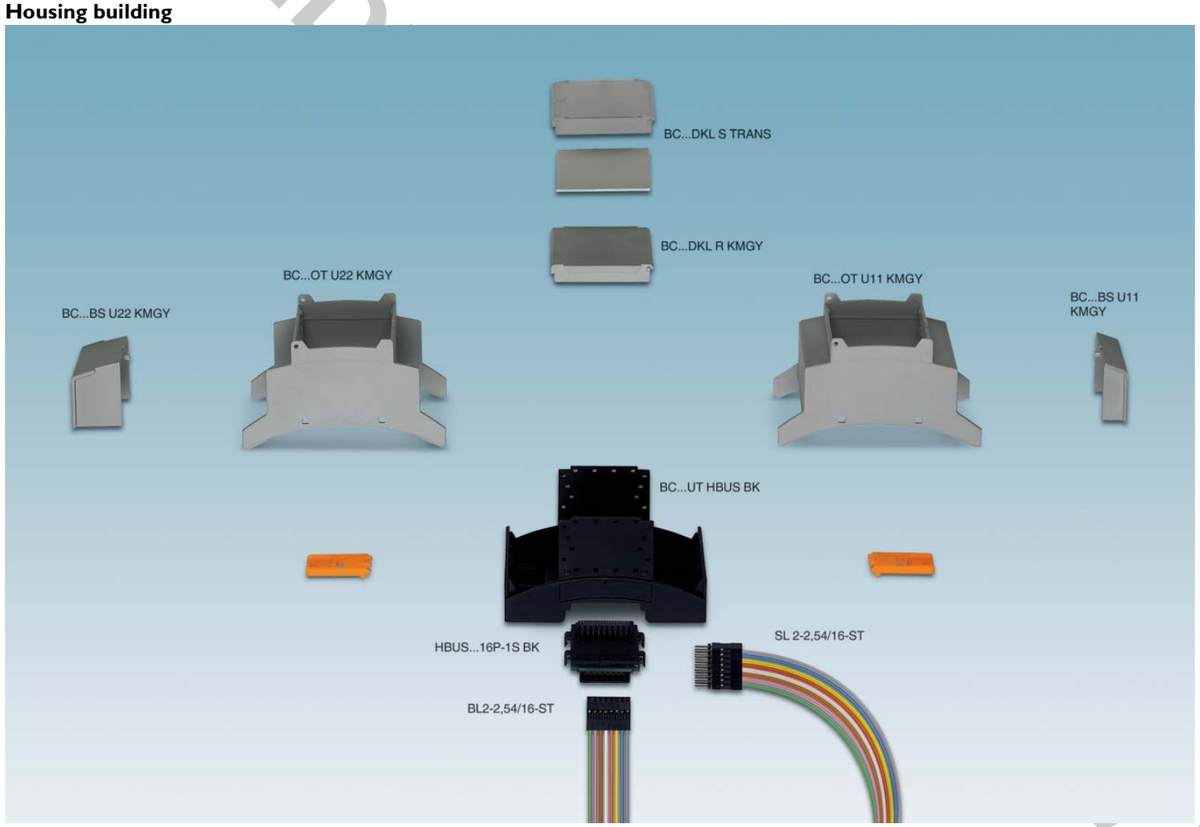








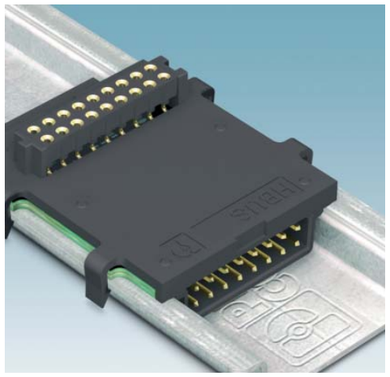
Housing building



The BC electronic housings have been designed for future-oriented applications in building automation. In addition to the modern design, this housing range offers numerous other features.



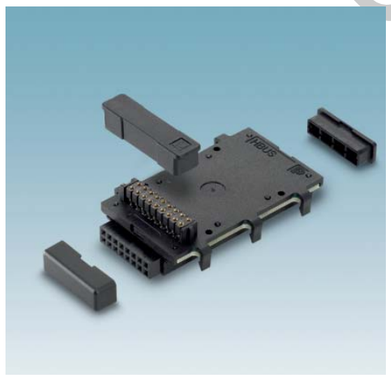
The housing complies with DIN 43880, thus guaranteeing problem-free operation in all common distributor boards.



Automatic contacting between devices

The 16-pos. DIN rail connector supports both parallel and serial data transmission plus power supply.

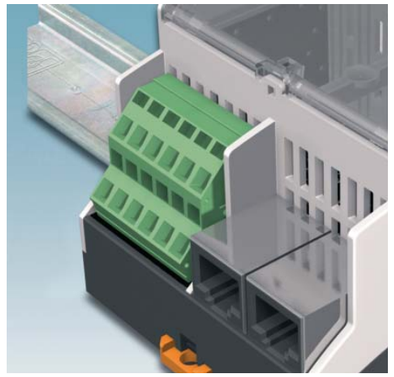
Gold-plated contacts ensure a high level of transmission reliability. They are mounted by simply snapping them onto the DIN rail.



Protection for DIN rail connectors

Cover caps are available to protect unused HBUS DIN rail connectors. They are mounted by simply snapping them on and can be removed by hand or using a screwdriver.

Electronics housing for industrial electronics and semi-industrial applications
Building installation housings according to DIN EN 43880



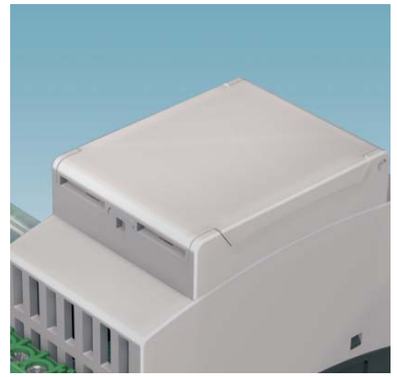
Free selection of corresponding PCB connection technology

BC...U11 housing types with a small clamping space are ideal for the connection technology used in COMBICON compact building automation. If using conventional connection technology or data plug-in connectors, BC...U22 housing versions with a large clamping space are available.

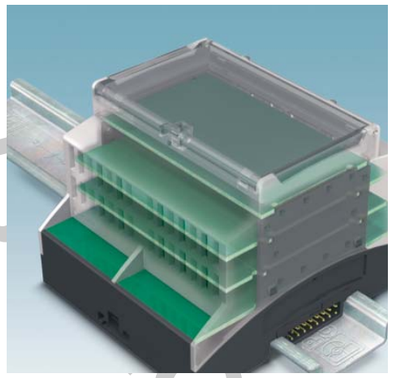


Various cover versions for optimum device design

A transparent cover including fitted cover and a light gray cover, which is the color of the housing, is available for all housing widths. The transparent cover can be swiveled open and is therefore suitable for devices in which indication or operating elements are used.

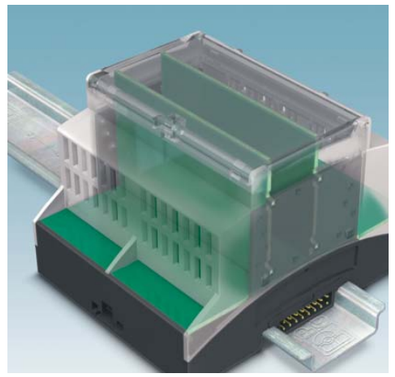


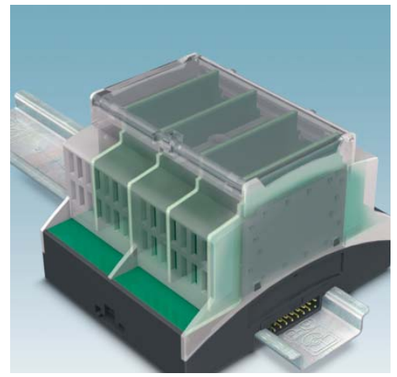
The fitted cover, which is inserted below the cover, can be labeled easily. The cover can be sealed, thus ensuring the device safety required. The opaque cover is the same color as the housing. It is latched onto the upper part of the housing and cannot be removed.



Flexible device concepts

Internal PCB guides in all three space directions enable the electronic components to be installed in a functional and convenient manner. The PCBs can be snapped on parallel to the DIN rail on different levels as well as orthogonally in different positions.



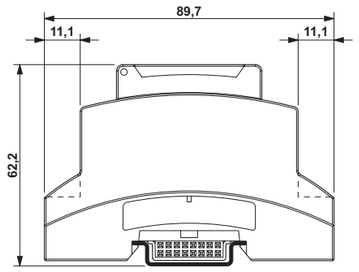


Matrix for selecting the connection technology

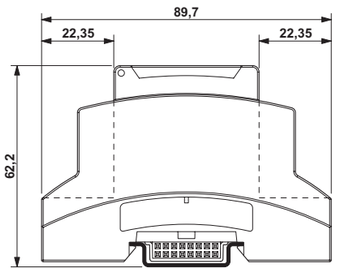
Module	BC 17,8 OTU	BC 35,6 OT U11	BC 35,6 OT U22	BC 53,6 OT U11	BC 53,6 OT U22	BC 71,6 OT U11	BC 71,6 OT U22	BC 107,6 OT U11	BC 107,6 OT U22	BC 161,6 OT U11	BC 161,6 OT U22
Terminal installation depth		11.1 mm	22.35 mm	11.1 mm	22.35 mm	11.1 mm	22.35 mm	11.1 mm	22.35 mm	11.1 mm	22.35 mm
MKDSO 1,5/4-L-3,5	●	-	-	-	-	-	-	-	-	-	-
MKDSO 1,5/4-R-3,5	●	-	-	-	-	-	-	-	-	-	-
MKDSO 2,5/3-L	●	-	-	-	-	-	-	-	-	-	-
MKDSO 2,5/3-R	●	-	-	-	-	-	-	-	-	-	-
MKDS 1,5/... HT	-	●	●	●	●	●	●	●	●	●	●
MKDS 3/... HT	-	●	●	●	●	●	●	●	●	●	●
MKDS 1,5/...	-	●	●	●	●	●	●	●	●	●	●
MKDSP 1,5/…	-	●	●	●	●	●	●	●	●	●	●
MKDSN 2,5/...	-	●	●	●	●	●	●	●	●	●	●
MKDS 3/...	-	●	●	●	●	●	●	●	●	●	●
MKDSP 3/…	-	●	●	●	●	●	●	●	●	●	●
MKKDSH 3/…	-	●	●	●	●	●	●	●	●	●	●
GMKDS 1,5/…	-	●	●	●	●	●	●	●	●	●	●
GMKDS 3/…	-	●	●	●	●	●	●	●	●	●	●
GMKDSP 3/…	-	●	●	●	●	●	●	●	●	●	●
SPTA 1/...-3,5	-	●	●	●	●	●	●	●	●	●	●
SPTA 1/...-5,0	-	●	●	●	●	●	●	●	●	●	●
MKKDS 1,5/…	-	-	●	-	●	-	●	-	●	-	●
MKKDS 3/…	-	-	●	-	●	-	●	-	●	-	●
MKKDSG 3/…	-	-	●	-	●	-	●	-	●	-	●
ZFKKDS 1,5C-5,0	-	-	●	-	●	-	●	-	●	-	●
FK-MPT 0,5/...-3,5-H	-	●	●	●	●	●	●	●	●	●	●
FK-MPT 0,5/...-ST-3,5	-	●	●	●	●	●	●	●	●	●	●
PTSA 0,5/...-2,5-Z	-	●	●	●	●	●	●	●	●	●	●
PTSA 0,5/...-2,5-F	-	●	●	●	●	●	●	●	●	●	●
PTSA 1,5/...-3,5-Z	-	●	●	●	●	●	●	●	●	●	●
PTSA 1,5/...-3,5-F	-	●	●	●	●	●	●	●	●	●	●
PTS 1,5/...-5,0-H	-	●	●	●	●	●	●	●	●	●	●
PT 1,5/...-5,0-H	-	●	●	●	●	●	●	●	●	●	●
PT 1,5/...-PH-5,0	-	●	●	●	●	●	●	●	●	●	●
PT 2,5/...-5,0-H	-	●	●	●	●	●	●	●	●	●	●
PT 2,5/4-7,5-H	-	●	●	●	●	●	●	●	●	●	●
PTDA 1,5/...-PH-3,5	-	-	●	-	●	-	●	-	●	-	●
PTDA 1,5/...-PH-5,0	-	-	●	-	●	-	●	-	●	-	●
PT 2,5/...-PVH-5,0	-	-	●	-	●	-	●	-	●	-	●
PST 1,3/...-LH-5,0	-	-	●	-	●	-	●	-	●	-	●
PST 1,3/...-LV-5,0	-	-	●	-	●	-	●	-	●	-	●
PST 1,0/...-3,5	-	●	●	●	●	●	●	●	●	●	●
PST 1,3/...-5,0	-	●	●	●	●	●	●	●	●	●	●
VS-08-BU-RJ45…	-	-	●	-	●	-	●	-	●	-	●

For the 22 mm terminal installation depth, terminal blocks for U11 installation depth can also be used and are therefore listed as well.

Terminal installation depth U11 = 11.1 mm



Terminal installation depth U22 = 22.35 mm



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Electronics housing for industrial electronics and semi-industrial applications
Building installation housings according to DIN EN 43880

BC installation component housing

More housing dimensions, the layout of the PCBs, their dimensions and assembly areas can be found in the download center under: www.phoenixcontact.net/products

Notes:
1) For information on power dissipation, see page 770.
2) DIN rail connectors see page 702.



17.8 mm wide = 1 terminal pitch



35.6 mm wide = 2 terminal pitches



53.6 mm wide = 3 pitches



71.6 mm wide = 4 terminal pitches



107.6 mm wide = 6 terminal pitches

Technical data																							
Power dissipation P_V at 20°C in horizontal mounting position1)	BC 17,8 UT HBUS BK						BC 35,6 UT HBUS BK						BC 53,6 UT HBUS BK						BC 71,6 UT HBUS BK						BC 107,6 UT HBUS BK					
Mounted in rows without spacing	2.95 W	-	-	-			4.78 W	-	-	-			7.21 W	-	-	-			11.95 W	-	-	-			13.08 W	-	-	-		
Type of housing																														
Electronic housings	polycarbonate / V0						polycarbonate / V0						polycarbonate / V0						polycarbonate / V0						polycarbonate / V0					
Connection data	solid		stranded			I	U	solid		stranded			I	U	solid		stranded			I	U	solid		stranded			I	U	solid		stranded			I	U
		[mm²]			AWG	[A]	[V]		[mm²]			AWG	[A]	[V]		[mm²]			AWG	[A]	[V]		[mm²]			AWG	[A]	[V]		[mm²]			AWG	[A]	[V]
HBUS	-	-	-		-	3	60	-	-	-		-	3	60	-	-	-		-	3	60	-	-	-		-	3	60	-	-	-		-	3	60

Ordering data																							
Description	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Housing base																							
	BC 17,8 UT HBUS BK	**2896241**	10	**BC 35,6 UT HBUS BK**	**2896254**	10	**BC 53,6 UT HBUS BK**	**2896403**	10	**BC 71,6 UT HBUS BK**	**2896267**	10	**BC 107,6 UT HBUS BK**	**2896270**	10
Housing upper part, with vents, terminal installation depth 11 mm																							
With vents, terminal installation depth 11 mm				**BC 35,6 OT U11 KMGY**	**2896034**	10	**BC 53,6 OT U11 KMGY**	**2896416**	10	**BC 71,6 OT U11 KMGY**	**2896050**	10	**BC 107,6 OT U11 KMGY**	**2896076**	10
Housing upper part, with vents, terminal installation depth 22 mm																							
				BC 35,6 OT U22 KMGY	**2896047**	10	**BC 53,6 OT U22 KMGY**	**2896429**	10	**BC 71,6 OT U22 KMGY**	**2896063**	10	**BC 107,6 OT U22 KMGY**	**2896089**	10
Upper part of a housing, for orthogonal PCB terminal block base with a 3.5 or 5 mm pitch																							
	BC 17,8 OTU MKDSO KMGY	**2279732**	10																				
Housing cover, firmly locked with the housing upper part, in housing color light gray																							
	BC 17,8 DKL R KMGY	**2896144**	10	**BC 35,6 DKL R KMGY**	**2896157**	10	**BC 53,6 DKL R KMGY**	**2896432**	10	**BC 71,6 DKL R KMGY**	**2896160**	10	**BC 107,6 DKL R KMGY**	**2896173**	10
Housing cover, can be swiveled and sealed, transparent, incl. fitted cover																							
	BC 17,8 DKL S TRANS	**2896102**	10	**BC 35,6 DKL S TRANS**	**2896115**	10	**BC 53,6 DKL S TRANS**	**2896445**	10	**BC 71,6 DKL S TRANS**	**2896128**	10	**BC 107,6 DKL S TRANS**	**2896131**	10

Accessories																							
PCB terminal block, left, 3.5 mm pitch, color: light gray																							
Left	**MKDSO 1,5/ 4-L-3,5 KMGY**	**2278432**	50																				
Right	**MKDSO 1,5/ 4-R-3,5 KMGY**	**2278429**	50																				
PCB terminal block, for soldering into the PCB, pitch 5																							
Left	**MKDSO 2,5/ 3-L KMGY**	**2854102**	250																				
Right	**MKDSO 2,5/ 3-R KMGY**	**2854092**	250																				
Cap set, 3-section	**HBUS-B SET BK**	**2278173**	10	**HBUS-B SET BK**	**2278173**	10	**HBUS-B SET BK**	**2278173**	10	**HBUS-B SET BK**	**2278173**	10	**HBUS-B SET BK**	**2278173**	10
DIN rail connector, 16-pos.2)																							
One 18-pos. slot to the PCB				**HBUS 35,6-16P-1S BK**	**2896283**	10	**HBUS 53,6-16P-1S BK**	**2896458**	10	**HBUS 71,6-16P-1S BK**	**2896296**	10	**HBUS 107,6-16P-1S BK**	**2896306**	10
Two 18-pos. slots to the PCB	**HBUS 35,6-16P-2S BK**	**2896319**	10																				
Three 18-pos. slots to the PCB	**HBUS 53,6-16P-3S BK**	**2896322**	10																				
Power connector for DIN rail bus connector with 16 free cable ends with a cross section of 0.25 mm², 500 mm long																							
Socket strip	**BL2-2,54/16-ST**	**2896335**	50	**BL2-2,54/16-ST**	**2896335**	50	**BL2-2,54/16-ST**	**2896335**	50	**BL2-2,54/16-ST**	**2896335**	50	**BL2-2,54/16-ST**	**2896335**	50
Pin strip	**SL2-2,54/16-ST**	**2896348**	50	**SL2-2,54/16-ST**	**2896348**	50	**SL2-2,54/16-ST**	**2896348**	50	**SL2-2,54/16-ST**	**2896348**	50	**SL2-2,54/16-ST**	**2896348**	50
Filler plugs, for unoccupied terminal points	**ME B-17,5 MKDSO KMGY**	**2854115**	10	**BC 17,6 BS U11 KMGY**	**2896186**	50	**BC 17,6 BS U11 KMGY**	**2896186**	50	**BC 17,6 BS U11 KMGY**	**2896186**	50	**BC 17,6 BS U11 KMGY**	**2896186**	50
Cover caps for empty terminal space, 17.6 mm width, for terminal installation depth 22 mm				**BC 17,6 BS U22 KMGY**	**2896199**	50	**BC 17,6 BS U22 KMGY**	**2896199**	50	**BC 17,6 BS U22 KMGY**	**2896199**	50	**BC 17,6 BS U22 KMGY**	**2896199**	50
Cover caps for empty terminal space, 35.6 mm width, for terminal installation depth 11 mm				**BC 35,6 BS U11 KMGY**	**2896209**	50	**BC 35,6 BS U11 KMGY**	**2896209**	50	**BC 35,6 BS U11 KMGY**	**2896209**	50	**BC 35,6 BS U11 KMGY**	**2896209**	50
Cover caps for empty terminal space, 35.6 mm width, for terminal installation depth 22 mm				**BC 35,6 BS U22 KMGY**	**2896212**	50	**BC 35,6 BS U22 KMGY**	**2896212**	50	**BC 35,6 BS U22 KMGY**	**2896212**	50	**BC 35,6 BS U22 KMGY**	**2896212**	50
Cover caps for empty terminal space, 53.6 mm width, for terminal installation depth 11 mm							**BC 53,6 BS U11 KMGY**	**2896225**	50				**BC 53,6 BS U11 KMGY**	**2896225**	50
Cover caps for empty terminal space, 53.6 mm width, for terminal installation depth 22 mm							**BC 53,6 BS U22 KMGY**	**2896238**	50				**BC 53,6 BS U22 KMGY**	**2896238**	50

BC installation component housing

More housing dimensions, the layout of the PCBs, their dimensions and assembly areas can be found in the download center under: www.phoenixcontact.net/products

Notes:
1) For information on power dissipation, see page 770.
2) DIN rail connectors see page 702.



161.6 mm wide = 9 terminal pitches

Technical data

	BC 161,6 UT HBUS BK				
Power dissipation P_V at 20°C in horizontal mounting position1)	16.95 W	-	-	-	
Mounted in rows without spacing					
Type of housing					
Electronic housings	polycarbonate / V0				
Connection data	solid	stranded		I	U
	[mm²]		AWG	[A]	[V]
HBUS	-	-	-	3	60

Ordering data

Description	Type	Order No.	Pcs. / Pkt.
Housing base			
	BC 161,6 UT HBUS BK	**2278500**	10
Upper part of housing With vents, terminal installation depth 11 mm	**BC 161,6 OT U11 KMGY**	**2278513**	10
Housing upper part, with vents, terminal installation depth 22 mm			
	BC 161,6 OT U22 KMGY	**2278526**	10
Housing cover, firmly locked with the housing upper part, in housing color light gray			
	BC 161,6 DKL R KMGY	**2278539**	10
Housing cover, can be swiveled and sealed, transparent, incl. fitted cover			
	BC 161,6 DKL S TRANS	**2278542**	10

Accessories

Cap set, 3-section	**HBUS-B SET BK**	**2278173**	10
DIN rail connector for housing width 161.6 mm (9TE), 16-pos., one 18-pos. slot for PCB2)			
	HBUS 161,6-16P-1S BK	**2278555**	10
Power connector for DIN rail bus connector with 16 free cable ends with a cross section of 0.25 mm², 500 mm long			
Socket strip	**BL2-2,54/16-ST**	**2896335**	50
Pin strip	**SL2-2,54/16-ST**	**2896348**	50
Cover caps for empty terminal space, 17.6 mm width, for terminal installation depth 11 mm	**BC 17,6 BS U11 KMGY**	**2896186**	50
Cover caps for empty terminal space, 17.6 mm width, for terminal installation depth 22 mm	**BC 17,6 BS U22 KMGY**	**2896199**	50
Cover caps for empty terminal space, 35.6 mm width, for terminal installation depth 11 mm	**BC 35,6 BS U11 KMGY**	**2896209**	50
Cover caps for empty terminal space, 35.6 mm width, for terminal installation depth 22 mm	**BC 35,6 BS U22 KMGY**	**2896212**	50
Cover caps for empty terminal space, 53.6 mm width, for terminal installation depth 11 mm	**BC 53,6 BS U11 KMGY**	**2896225**	50
Cover caps for empty terminal space, 53.6 mm width, for terminal installation depth 22 mm	**BC 53,6 BS U22 KMGY**	**2896238**	50

Electronics housing for industrial electronics and semi-industrial applications
Building installation housings according to DIN EN 43880

BC modular



The BC 161,6 modular extends the BC housing range with a modular upper part which is a perfect match for the proven BC 161,6 housing bases.

An innovative tool concept makes it possible to design both the PCB assembly area as well as the installation space for the PCB connection technology in line with the application.

Customers can choose from 3 different side panel arrangements per segment:

– Side panel in the outermost position, i.e., flush with the outer edge of the housing base: maximum PCB assembly area inside the housing for a variety of different components
– Side panel in the innermost position: maximum installation space for connection technology = 22 mm, e.g., for double-level terminal blocks or RJ45
– Middle side panel position: installation space for connection technology = 11 mm, i.e., space both for the connection technology and inside the housing

Please tell us how you would like the product to be configured.

Notes:
1) For information on power dissipation, see page 770.
2) DIN rail connectors see page 702.

N



Modular upper part for customer-specific configuration
161.6 mm wide = 9 pitches

Technical data

	BC 161,6 OT 000020 KMGY				
Power dissipation P_V at 20°C in horizontal mounting position1)	16.95 W	-	-	-	
Mounted in rows without spacing					
Type of housing					
Electronic housings	polycarbonate / V0				
Connection data	solid	stranded		I	U
	[mm²]		AWG	[A]	[V]
HBUS	-	-	-	3	60

Ordering data

Description	Type	Order No.	Pcs. / Pkt.
Housing base			
	BC 161,6 UT HBUS BK	**2278500**	10
Housing upper part with vents, 1 x terminal installation depth of 22 mm at pos. 5, pos. 1 - 4, and pos. 6 clamping space closed			
	BC 161,6 OT 000020 KMGY	**2201450**	10
Housing upper part with vents, 1 x terminal installation depth 22 mm at pos. 3, pos. 1+2, and pos. 4-6 clamping space closed			
	BC 161,6 OT 002000 KMGY	**2201451**	10
Housing upper part with vents, 2 x terminal installation depth 22 mm at pos. 5+6, pos. 1-4 clamping space closed			
	BC 161,6 OT 000022 KMGY	**2201454**	10
Housing cover, firmly locked with the housing upper part, in housing color light gray			
	BC 161,6 DKL R KMGY	**2278539**	10
Housing cover, can be swiveled and sealed, transparent, incl. fitted cover			
	BC 161,6 DKL S TRANS	**2278542**	10

Accessories

Cap set, 3-section	**HBUS-B SET BK**	**2278173**	10
DIN rail connector for housing width 161.6 mm (9TE), 16-pos., one 18-pos. slot for PCB2)			
	HBUS 161,6-16P-1S BK	**2278555**	10
Power connector for DIN rail bus connector with 16 free cable ends with a cross section of 0.25 mm², 500 mm long			
Socket strip	**BL2-2,54/16-ST**	**2896335**	50
Pin strip	**SL2-2,54/16-ST**	**2896348**	50
Cover caps for empty terminal space, 17.6 mm width, for terminal installation depth 22 mm	**BC 17,6 BS U22 KMGY**	**2896199**	50
Cover caps for empty terminal space, 35.6 mm width, for terminal installation depth 22 mm	**BC 35,6 BS U22 KMGY**	**2896212**	50
Cover caps for empty terminal space, 53.6 mm width, for terminal installation depth 22 mm	**BC 53,6 BS U22 KMGY**	**2896238**	50

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DIN rail connectors HBUS



Automatic contacting between devices

– For parallel and serial data transmission and power supply
– 16-pos. in DIN rail, 18-pos. in device
– Gold-plated contacts
– Housing width 17.8 mm suitable for connectors with 2 or 3 slots

– One connector per housing is required for housing widths in excess of 35.6 mm
– Cover caps for protection
– Pin or socket strip (SL or BL) for supply incl. 50 cm cable ends

Notes:

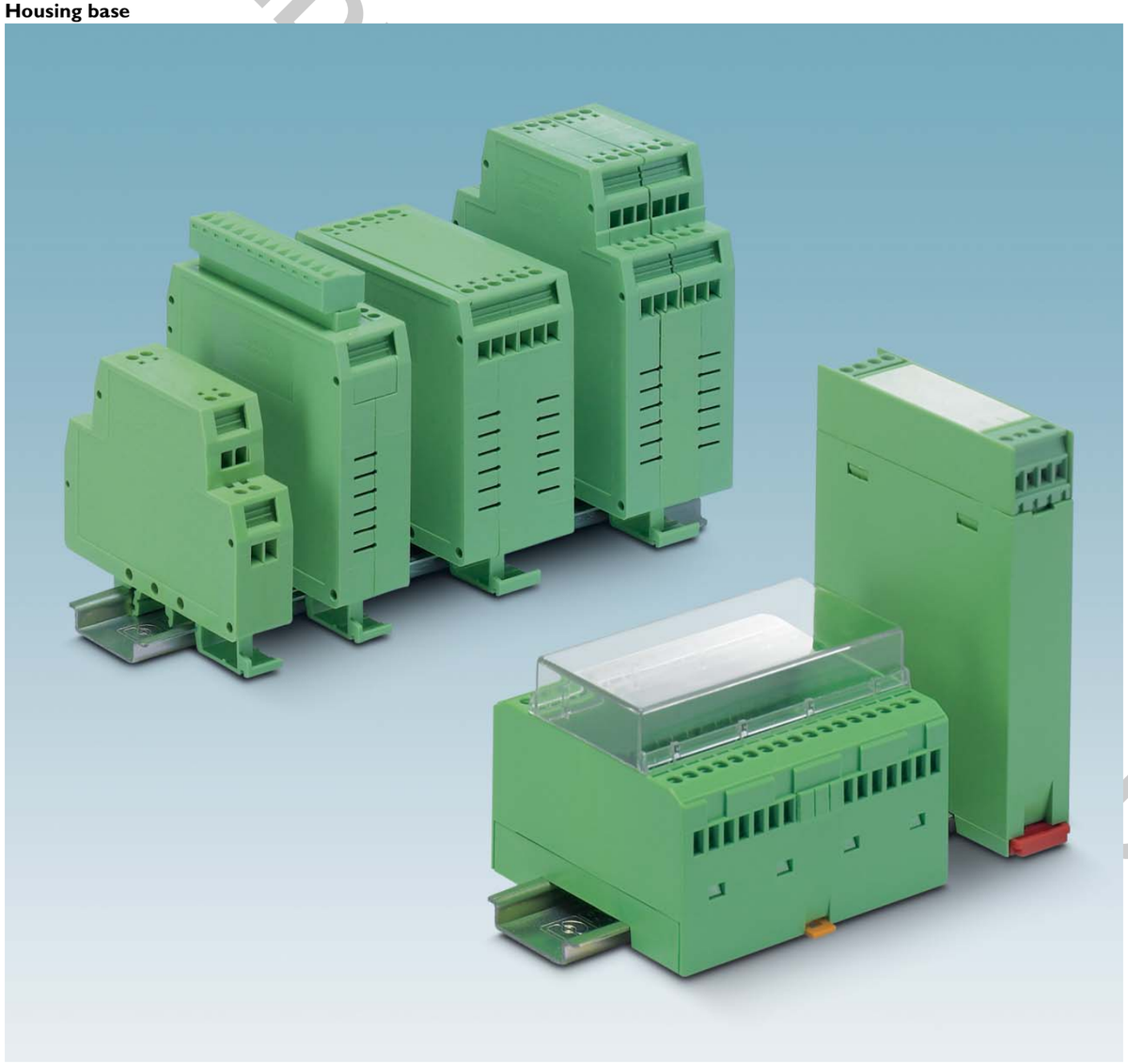
[1]) DIN rail connectors see page 702.



Description	Type	Order No.	Pcs. / Pkt.
Ordering data			
DIN rail connector for housing width 17.8 mm (1TE)			
Two 18-pos. slots to the PCB	**HBUS 35,6-16P-2S BK**	**2896319**	10
Three 18-pos. slots to the PCB	**HBUS 53,6-16P-3S BK**	**2896322**	10
DIN rail connector, 16-pos.[1]) One 18-pos. slot to the PCB	**HBUS 35,6-16P-1S BK**	**2896283**	10
DIN rail connector, 16-pos., for housing width 53.6 mm (3TE)	**HBUS 53,6-16P-1S BK**	**2896458**	10
DIN rail connector for housing width 71.6 mm (4TE), 16-pos., one 18-pos. slot for PCB	**HBUS 71,6-16P-1S BK**	**2896296**	10
DIN rail connector for housing width 107.6 mm (6TE), 16-pos., one 18-pos. slot for PCB	**HBUS 107,6-16P-1S BK**	**2896306**	10
DIN rail connector for housing width 161.6 mm (9TE), 16-pos., one 18-pos. slot for PCB[1])	**HBUS 161,6-16P-1S BK**	**2278555**	10
Accessories			
Power connector for DIN rail bus connector with 16 free cable ends with a cross section of 0.25 mm², 500 mm long			
Socket strip	**BL2-2,54/16-ST**	**2896335**	50
Pin strip	**SL2-2,54/16-ST**	**2896348**	50
Cap set, 3-section	**HBUS-B SET BK**	**2278173**	10

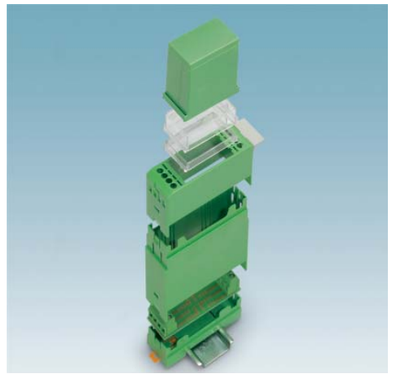
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Housing base



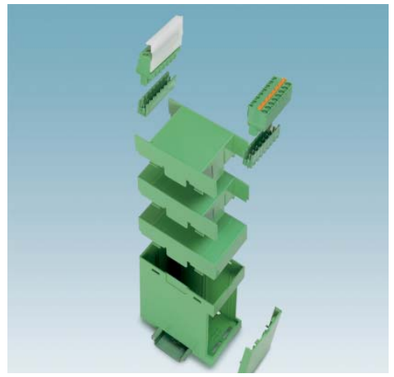
The EMG, EG, and UEG housing ranges are the ideal solution for cost-effective housing production. Cost-effectiveness and functionality are combined with simple PCB geometries, carefully thought-out overall width scaling, and some versions with integrated connection technology.

Electronics housing for industrial electronics and semi-industrial applications
Basic housings for universal use



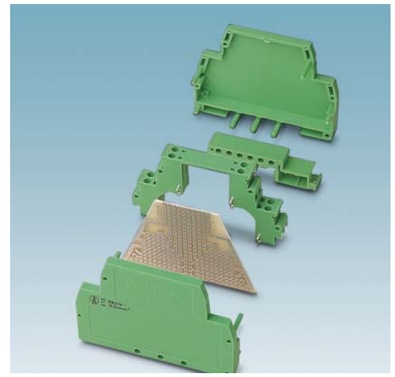
EMG housing range

Your advantages at a glance:
– Fine type scaling for broad diversity of overall widths
– Various cover versions
– Flat design
– For solid 2.5 mm² - MKDS 3 screw connections with 5 mm pitch



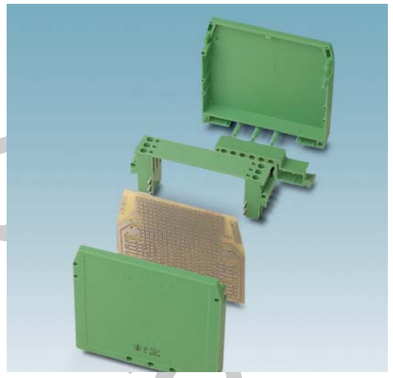
EG housing range

Your advantages at a glance:
– Robust housing type
– Receptacle housing
– A variety of cover designs
– Two material versions, ABS and PC
– Optional with test opening



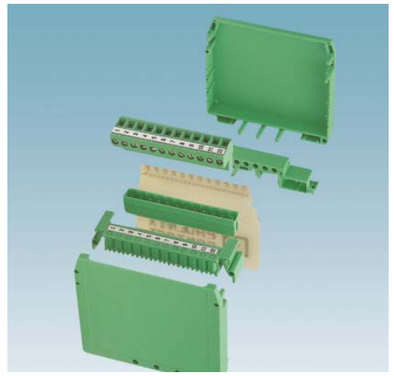
UEG housing range

Your advantages at a glance:
– Flat half-shell design
– Base element with integrated connection technology, double-level design
– Optional PCBs for small series



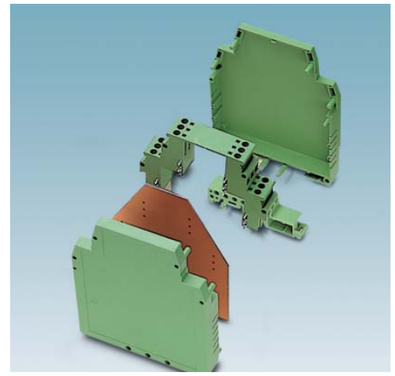
UEGM housing range

Your advantages at a glance:
– Half-shell design
– Base element with integrated connection technology, single-level design
– Large PCB surface
– Optional PCBs for small series



UEGM-MSTB housings

Your advantages at a glance:
– Half-shell design
– Base element with integrated 12-pos. pin strip
– Can be additionally equipped with 3 mm LED light indicator
– Large PCB surface



UEGH housing range

Your advantages at a glance:
– Tall half-shell design
– Base element with integrated connection technology, double-level design
– Optional PCBs for small series
– Versions offering space for PCBs fitted with SMDs on both sides

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EMG system component housing

EMG is a complete range of component housing for the cost-effective design of industrial electronics to suit control cabinet requirements. Both small interface circuits and complete control units can be installed in this housing.

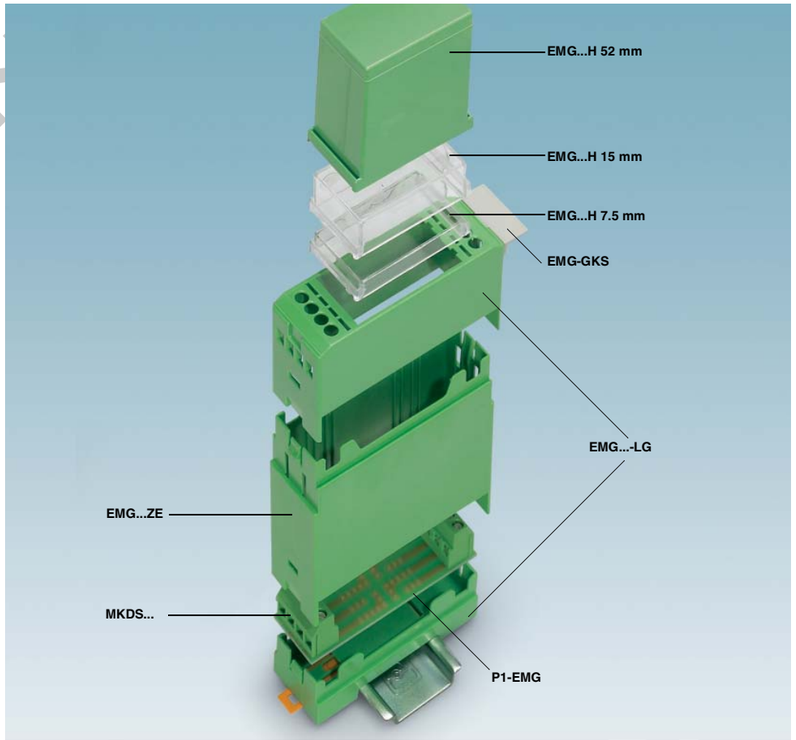


Features of EMG housing:

- Uniform and appropriate housing technology
- Space-saving accommodation of electronic components in finely graded module versions available with 10 to 150 mm pitch
- Practical and easy-to-wire conductor connections
- Inflammability class V0 insulation material (according to UL 94)
- High degree of flexibility due to the wide choice of versions
- User-friendly and safe mounting on DIN rails according to EN 60715
- Shock and contamination-proof accommodation of electronic components
- Choice of four cover sizes in transparent or color versions
- Universal PCBs for all pitches

Construction principle

The top right image shows the principle of EMG construction: the assembled PCB is inserted into the upper part of the housing and then reliably latched into the housing base.



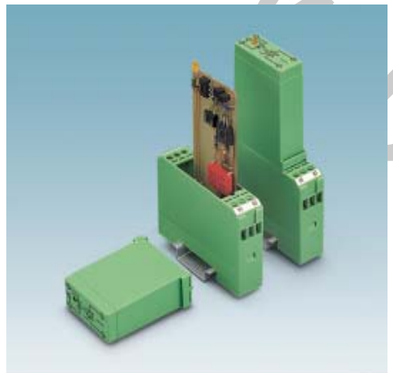
Accommodating electronic components

The fine grading of types enables optimum adaptation of the housing to the required PCB area and the required number of connection positions. The PCB is rectangular.

The special feature of this range is that all electronic components and PCB terminal blocks can be mounted to suit production requirements and machine-soldered in a single step.

To create narrow modules that also have comprehensive electronic components, one or more additional PCBs can be mounted perpendicular to the main PCB.

Details of PCB layout, dimensions, connection points, and assembly areas can be found in the Download Center at www.phoenixcontact.net/products.



Electronics housing for industrial electronics and semi-industrial applications
Basic housings for universal use



Four cover heights

The transparent or opaque green covers are supplied to protect the internal electronic components against shock and contamination. The cover is simply snapped on and can be removed again at any time.

The front has openings for the installation of indication or actuation elements and the surface can be printed with a circuit diagram. The covers can be supplied with cutouts or printing on the front.

Special keying adaptation ensures that the covers can only be mounted to match the circuit.

You can choose between four cover heights allowing optimum adaptation of the module height to the space requirements of the electronic components. The 7.5 mm, 15 mm, and 35 mm high covers are transparent, whereas the 52 mm high cover is opaque green. The high covers have guide slots to accommodate the perpendicular secondary PCB(s).

EMG housing with a design width of 17 mm, 25 mm, and 75 mm is also available as an enclosed version (EMG...-LG/G) on request.



Conductor connections

Standard EMG...LG versions are designed for sturdy 2.5 mm² screw connections on both sides in the form of MKDS 3 PCB terminal blocks with 5 mm pitch. The terminal points that are not used can be sealed with EMG-KA terminal blocks/screw covers.

The following versions of EMG housing are also available:

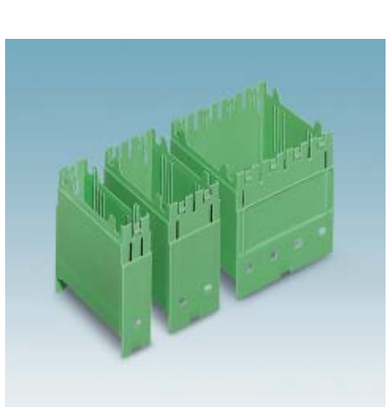
- EMG...LG 7,5 for PCB terminal blocks with 7.5 mm pitch.
- EMG...LG/O, with open clamping space for free assembly, can be fitted with 2.8 x 0.8 mm spade connections or with PCB terminal block or COMBICON connections with vertical plug-in direction (MSTBV 2,5/...-G).
- EMG...LG/MSTB for lateral COMBICON connection (plug-in direction parallel to the PCB).





Intermediate elements

EMG...ZE intermediate elements are available for pitches of 25, 45, and 90 mm. These elements increase the assembly space perpendicular to the DIN rail significantly. The various PCB guides ensure optimum accommodation of your electronic components.



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EMG system component housing

Delivery forms

This component housing range can be divided into three delivery groups:
– Housings with order no. EMG...LG consist of an upper and a lower part.
– Articles ending in SET are supplied as upper and lower housing parts in the standard version, including the relevant PCB terminal blocks.
– Ready-mounted custom circuit modules with PCB and solder tags, which are fitted on MKDS 3/... connection terminal blocks, are available as EMG...B.... These custom circuit modules are the answer if you want to make a professional job of integrating components such as damping diodes, varistors or capacitors in the control cabinet.

Mounting:

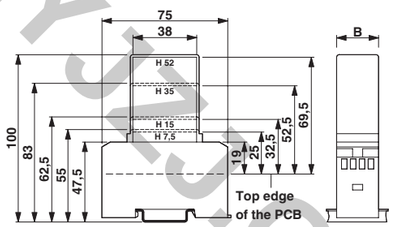
All housings are aligned in rows on the symmetrical DIN rail in accordance with EN 60715 by simply snap locking them into place. They are removed by pulling back the base latch. Modules of up to a design width of 22.5 mm are also supplied with a universal foot, thus making them suitable for all DIN rails commonly available in the market.

Notes:

Torque of terminal block screws
see page 854.

Marking systems and mounting material
See Catalog 5

[1]) For information on power dissipation, see page 770.



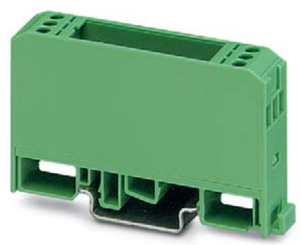
B= Width



4-pos., width: 10 mm



4-pos., width: 12.5 mm



6-pos., width: 15 mm



4-pos., 7.5 mm pitch, 6-pos., 5 mm pitch, width: 17.5 mm

Technical data

Power dissipation P_V at 20°C in horizontal mounting position[1])	H 7,5	H 15	H 35	H 52
Mounted in rows without spacing	0.9 W	1 W	-	1.5 W
Mounted in rows with min. 20 mm spacing	1.2 W	1.4 W	-	2.2 W
Type of housing				
Electronic housings	Polycarbonate fiber reinforced / V0			
Green cover	Polycarbonate fiber reinforced PC-F / V0			
Transparent cover	Polycarbonate, PC / V2			
Stripping length	8 mm			
Connection data	solid [mm²]	stranded [mm²]	AWG	I [A] / U [V]
	0.2 - 4	0.2 - 2.5	24 - 12	- / -

Technical data

H 7,5	H 15	H 35	H 52
1.2 W	1.3 W	-	2 W
1.3 W	1.5 W	-	2.6 W
Polycarbonate fiber reinforced / V0			
Polycarbonate fiber reinforced PC-F / V0			
Polycarbonate, PC / V2			
8 mm			
solid [mm²]	stranded [mm²]	AWG	I [A] / U [V]
0.2 - 4	0.2 - 2.5	24 - 12	- / -

Technical data

H 7,5	H 15	H 35	H 52
1.2 W	1.4 W	-	2 W
1.3 W	1.5 W	-	2.7 W
Polycarbonate fiber reinforced / V0			
Polycarbonate fiber reinforced PC-F / V0			
Polycarbonate, PC / V2			
8 mm			
solid [mm²]	stranded [mm²]	AWG	I [A] / U [V]
0.2 - 4	0.2 - 2.5	24 - 12	- / -

Technical data

H 7,5	H 15	H 35	H 52
1.3 W	1.5 W	2.1 W	2.7 W
1.4 W	1.6 W	2.7 W	4 W
Polycarbonate fiber reinforced / V0			
Polycarbonate fiber reinforced PC-F / V0			
Polycarbonate, PC / V2			
8 mm			
solid [mm²]	stranded [mm²]	AWG	I [A] / U [V]
0.2 - 4	0.2 - 2.5	24 - 12	- / -

Ordering data

Description	Grid [mm]	No. of pos.	Width [mm]	Type	Order No.	Pcs. / Pkt.
Electronic housing, for PCB insertion, without screw connection terminal blocks and cover, with universal foot,						
	5	4	10	**EMG 10-LG**	**2947747**	10
	5	4	12.5			
	5	6	15			
	5	6	17.5			
	7.5	4	17.5			
With open terminal space			17.5			
Electronic housing set, consisting of electronic housings and printed circuit termination blocks						
	5	4	10	**EMG 10-LG/SET**	**2942959**	10
	5	4	12.5			
	5	6	15			
	5	6	17.5			
Custom circuit module, consisting of housing, Connecting terminal blocks MKDS 3 and printed circuit board with solder tags, for soldering in electronic components						
	5			**EMG 10-B2**	**2947750**	10

Accessories

Covering hood, for the contact and dust-protected encapsulation of the components			
Height 7.5 mm, transparent	**EMG 10-H 7,5MM KLAR**	**2947763**	10
Height 15 mm, transparent	**EMG 10-H 15MM KLAR**	**2947776**	10
Height 35 mm, transparent			
Height 52 mm, green	**EMG 10-H 52MM GN**	**2947789**	10
PCB, for assembling electronic components	**P 1-EMG 10**	**2947792**	10
Printed circuit termination block, pitch 5 or 5.08, for soldering onto the printed circuit board			
2 3	**MKDS 3/ 2-EMG 10**	**1712342**	50
Printed circuit termination block, pitch 7.5, for soldering into the printed circuit board			
2			
Terminal block/screw cover, set consisting of 50 strips each for terminal blocks and screw openings, 1 strip covers 12 terminal points	**EMG-KA**	**2941510**	50
Equipment marker			
10 12	**EMG-SGKS 10**	**2947585**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
EMG 12-LG	**2907910**	10
EMG 12-LG/SET	**2942962**	10
EMG 12-B2	**2948306**	10

Accessories

EMG 12-H 7,5MM KLAR	**2947116**	10
EMG 12-H 15MM KLAR	**2948296**	10
EMG 12-H 52MM GN	**2947129**	10
P 1-EMG 12	**2947187**	5
MKDS 3/ 2	**1711026**	100
EMG-KA	**2941510**	50
EMG-GKS 12	**2947035**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
EMG 15-LG	**2908508**	10
EMG 15-LG/SET	**2942975**	10
EMG 15-B3	**2947815**	10

Accessories

EMG 15-H 7,5MM KLAR	**2947828**	10
EMG 15-H 15MM KLAR	**2947831**	10
EMG 15-H 52MM GN	**2947844**	10
P 1-EMG 15	**2947857**	20
MKDS 3/ 3-EMG 15	**1712698**	50
GMKDS 3/ 2-EMG15	**1731462**	50
EMG-KA	**2941510**	50
EMG-GKS 12	**2947035**	50

Ordering data

Type	Order No.	Pcs. / Pkt.
EMG 17-LG	**2946078**	10
EMG 17-LG-7,5	**2944106**	10
EMG 17-LG/O	**2942409**	10
EMG 17-LG/SET	**2942988**	10
EMG 17-B3	**2946081**	10

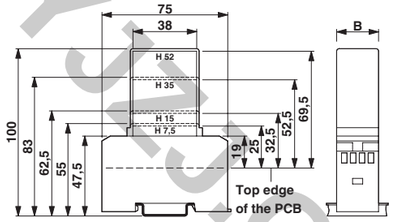
Accessories

EMG 17-H 7,5MM KLAR	**2946094**	10
EMG 17-H 15MM KLAR	**2946104**	10
EMG 17-H 35MM KLAR	**2942221**	10
EMG 17-H 52MM GN	**2946117**	10
P 1-EMG 17	**2946120**	5
MKDS 3/ 3	**1711039**	100
GMKDS 3/ 2	**1731022**	100
EMG-KA	**2941510**	50
EMG-SGKS 10	**2947585**	50
EMG-GKS 12	**2947035**	50

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EMG system component housing

Notes:
Tightening torque of terminal block screws refer to page 854.
Marking systems and mounting material See Catalog 5
1) For information on power dissipation, see page 770.



B= Width



8-pos., width: 22.5 mm

Technical data

Power dissipation P_V at 20°C in horizontal mounting position[1]	H 7,5	H 15	H 35	H 52
Mounted in rows without spacing	1.4 W	1.6 W	2.3 W	3 W
Mounted in rows with min. 20 mm spacing	1.6 W	1.8 W	2.9 W	4.1 W
Type of housing				
Electronic housings	Polycarbonate fiber reinforced / V0			
Green cover	Polycarbonate fiber reinforced PC-F / V0			
Transparent cover	Polycarbonate, PC / V2			
Stripping length	8 mm			
Connection data	solid [mm²]	stranded [mm²]	AWG	I [A] / U [V]
	0.2 - 4	0.2 - 2.5	24 - 12	- / -

Ordering data

Description	Grid [mm]	No. of pos.	Width [mm]	Type	Order No.	Pcs. / Pkt.
Electronic housing, for PCB insertion, without screw connection terminal blocks and cover						
With universal foot	5	8	22.5	**EMG 22-LG**	**2946133**	10
With snap foot for DIN rail EN 60715	5	8	25			
	5	10	30			
	5	14	37.5			
Electronic housing set, consisting of electronic housings and printed circuit termination blocks						
	5	8	22.5	**EMG 22-LG/SET**	**2942991**	10
	5	8	25			
	5	10	30			
	5	14	37.5			
Custom circuit module, consisting of housing, Connecting terminal blocks MKDS 3 and printed circuit board with solder tags, for soldering in electronic components						
	5			**EMG 22-B4**	**2946146**	10

Accessories

Covering hood, for the contact and dust-protected encapsulation of the components				
Height 7.5 mm, transparent	**EMG 22-H 7,5MM KLAR**	**2946159**	10	
Height 15 mm, transparent	**EMG 22-H 15MM KLAR**	**2946162**	10	
Height 35 mm, transparent	**EMG 22-H 35MM KLAR**	**2942771**	10	
Height 52 mm, green	**EMG 22-H 52MM GN**	**2946175**	10	
PCB, for assembling electronic components	**P 1-EMG 22**	**2946188**	5	
5.0 mm pitch, color: green				
2	**MKDS 3/ 2**	**1711026**	100	
3	**MKDS 3/ 3**	**1711039**	100	
4	**MKDS 3/ 4**	**1711042**	50	
Terminal block/screw cover, set consisting of 50 strips each for terminal blocks and screw openings, 1 strip covers 12 terminal points	**EMG-KA**	**2941510**	50	
Intermediate element, to enlarge the assembly space				
Equipment marker				
10	**EMG-SGKS 10**	**2947585**	50	
12	**EMG-GKS 12**	**2947035**	50	
22	**EMG-GKS 22**	**2941594**	50	



8-pos., width: 25 mm

Technical data

H 7,5	H 15	H 35	H 52
1.4 W	1.6 W	-	3.2 W
1.6 W	1.8 W	-	4.5 W
Polycarbonate fiber reinforced / V0			
Polycarbonate, PC / V0			
Polycarbonate, PC / V2			
8 mm			
solid [mm²]	stranded [mm²]	AWG	I [A] / U [V]
0.2 - 4	0.2 - 2.5	24 - 12	- / -

Ordering data

Type	Order No.	Pcs. / Pkt.
EMG 25-LG	**2948319**	5
EMG 25-LG/SET	**2943000**	10
EMG 25-B4	**2948335**	10

Accessories

EMG 25-H 7,5MM KLAR	**2947132**	5	
EMG 25-H 15MM KLAR	**2948322**	5	
EMG 25-H 52MM GN	**2947145**	5	
P 1-EMG 25	**2947190**	20	
MKDS 3/ 2	**1711026**	100	
MKDS 3/ 3	**1711039**	100	
MKDS 3/ 4	**1711042**	50	
EMG-KA	**2941510**	50	
EMG 25-ZE	**2941808**	5	
EMG-SGKS 10	**2947585**	50	
EMG-GKS 12	**2947035**	50	
EMG-GKS 22	**2941594**	50	



10-pos., width: 30 mm

Technical data

H 7,5	H 15	H 35	H 52
1.5 W	1.7 W	-	3.6 W
1.7 W	1.9 W	-	4.9 W
Polycarbonate fiber reinforced / V0			
Polycarbonate fiber reinforced PC-F / V0			
Polycarbonate, PC / V2			
8 mm			
solid [mm²]	stranded [mm²]	AWG	I [A] / U [V]
0.2 - 4	0.2 - 2.5	24 - 12	- / -

Ordering data

Type	Order No.	Pcs. / Pkt.
EMG 30-LG	**2947860**	5
EMG 30-LG/SET	**2940016**	5
EMG 30-B5	**2947873**	10

Accessories

EMG 30-H 7,5MM KLAR	**2947886**	5	
EMG 30-H 15MM KLAR	**2947899**	5	
EMG 30-H 52MM GN	**2947909**	5	
P 1-EMG 30	**2947912**	10	
MKDS 3/ 2	**1711026**	100	
MKDS 3/ 3	**1711039**	100	
MKDS 3/ 4	**1711042**	50	
EMG-KA	**2941510**	50	
EMG-SGKS 10	**2947585**	50	
EMG-GKS 12	**2947035**	50	
EMG-GKS 22	**2941594**	50	



14-pos., width: 37.5 mm

Technical data

H 7,5	H 15	H 35	H 52
1.6 W	1.9 W	2.6 W	4 W
1.8 W	2.1 W	3.5 W	5.4 W
Polycarbonate fiber reinforced / V0			
Polycarbonate fiber reinforced PC-F / V0			
Polycarbonate, PC / V2			
8 mm			
solid [mm²]	stranded [mm²]	AWG	I [A] / U [V]
0.2 - 4	0.2 - 2.5	24 - 12	- / -

Ordering data

Type	Order No.	Pcs. / Pkt.
EMG 37-LG	**2947051**	5
EMG 37-LG/SET	**2940029**	10
EMG 37-B7	**2947064**	5

Accessories

EMG 37-H 7,5MM KLAR	**2947158**	5	
EMG 37-H 15MM KLAR	**2947161**	5	
EMG 37-H 35MM KLAR	**2942768**	5	
EMG 37-H 52MM GN	**2947174**	5	
P 1-EMG 37	**2947077**	5	
MKDS 3/ 2	**1711026**	100	
MKDS 3/ 3	**1711039**	100	
MKDS 3/ 4	**1711042**	50	
EMG-KA	**2941510**	50	
EMG-SGKS 10	**2947585**	50	
EMG-GKS 12	**2947035**	50	
EMG-GKS 22	**2941594**	50	

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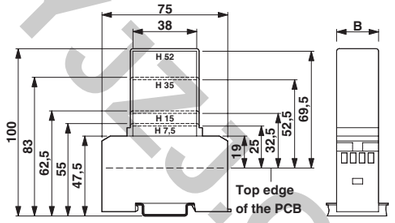
EMG system component housing

Notes:

Tightening torque of terminal block screws
refer to page 854.

Marking systems and mounting material
See Catalog 5

[1]) For information on power dissipation, see page 770.



B= Width



16-pos., width: 45 mm



18-pos., width: 50 mm



28-pos., width: 75 mm



34-pos., width: 90 mm

Technical data

	H 7,5	H 15	H 35	H 52
Power dissipation P_V at 20°C in horizontal mounting position[1])				
Mounted in rows without spacing	2 W	2.5 W	3.5 W	4.6 W
Mounted in rows with min. 20 mm spacing	2.4 W	2.9 W	4.4 W	5.7 W
Type of housing				
Electronic housings	Polycarbonate fiber reinforced / V0			
Green cover	Polycarbonate fiber reinforced PC-F / V0			
Transparent cover	Polycarbonate, PC / V2			
Stripping length	8 mm			
Connection data	solid [mm²]	stranded [mm²]	AWG	I [A] / U [V]
	0.2 - 4	0.2 - 2.5	24 - 12	- / -

Ordering data

Description	Grid [mm]	No. of pos.	Width [mm]	Type	Order No.	Pcs. / Pkt.
Electronic housing, for PCB insertion, without screw connection terminal blocks and cover						
	5.08	16	45	**EMG 45-LG**	**2946191**	5
	5	18	50			
	5	28	75			
	5	34	90			
Electronic housing, for PCB insertion, without screw connection terminal blocks and cover						
With open terminal space			45	**EMG 45-LG/O**	**2942315**	5
			50			
			75			
			90			
Electronic housing set, consisting of electronic housings and printed circuit termination blocks						
	5.08	16	45	**EMG 45-LG/SET**	**2940032**	5
	5	18	50			
	5	28	75			
	5	34	90			
Custom circuit module, consisting of housing, Connecting terminal blocks MKDS 3 and printed circuit board with solder tags, for soldering in electronic components						
	5.08			**EMG 45-B8**	**2946201**	5

Accessories

Covering hood, for the contact and dust-protected encapsulation of the components			
Height 7.5 mm, transparent	**EMG 45-H 7,5MM KLAR**	**2946214**	5
Height 15 mm, transparent	**EMG 45-H 15MM KLAR**	**2946227**	5
Height 35 mm, transparent	**EMG 45-H 35MM KLAR**	**2942140**	5
Height 52 mm, green	**EMG 45-H 52MM GN**	**2946230**	5
PCB, for assembling electronic components	**P 1-EMG 45**	**2946243**	5
5.08 mm pitch, color: Green			
2	**MKDS 3/ 2-5,08**	**1711725**	100
3	**MKDS 3/ 3-5,08**	**1711738**	100
4	**MKDS 3/ 4-5,08**	**1712805**	50
Intermediate element, to enlarge the assembly space	**EMG 45-ZE**	**2941811**	5
Terminal block/screw cover, set consisting of 50 strips each for terminal blocks and screw openings, 1 strip covers 12 terminal points	**EMG-KA**	**2941510**	50
Equipment marker			
12	**EMG-GKS 12**	**2947035**	50
22	**EMG-GKS 22**	**2941594**	50

Technical data

	H 7,5	H 15	H 35	H 52
Power dissipation P_V at 20°C in horizontal mounting position[1])				
Mounted in rows without spacing	2.3 W	2.8 W	-	4.7 W
Mounted in rows with min. 20 mm spacing	2.6 W	3.4 W	-	6 W
Type of housing				
Electronic housings	Polycarbonate fiber reinforced / V0			
Green cover	Polycarbonate fiber reinforced PC-F / V0			
Transparent cover	Polycarbonate, PC / V2			
Stripping length	8 mm			
Connection data	solid [mm²]	stranded [mm²]	AWG	I [A] / U [V]
	0.2 - 4	0.2 - 2.5	24 - 12	- / -

Ordering data

Type	Order No.	Pcs. / Pkt.
EMG 50-LG	**2947242**	5
EMG 50-LG/O	**2940870**	5
EMG 50-LG/SET	**2940045**	5
EMG 50-B9	**2947268**	5

Accessories

EMG 50-H 7,5MM KLAR	**2947925**	5
EMG 50-H 15MM KLAR	**2947938**	5
EMG 50-H 52MM GN	**2947941**	5
P 1-EMG 50	**2947255**	5
MKDS 3/ 2	**1711026**	100
MKDS 3/ 3	**1711039**	100
MKDS 3/ 4	**1711042**	50
EMG-KA	**2941510**	50
EMG-GKS 12	**2947035**	50
EMG-GKS 22	**2941594**	50

Technical data

	H 7,5	H 15	H 35	H 52
Power dissipation P_V at 20°C in horizontal mounting position[1])				
Mounted in rows without spacing	3.3 W	3.8 W	-	4.9 W
Mounted in rows with min. 20 mm spacing	3.9 W	4.8 W	-	6.3 W
Type of housing				
Electronic housings	Polycarbonate fiber reinforced / V0			
Green cover	Polycarbonate fiber reinforced PC-F / V0			
Transparent cover	Polycarbonate, PC / V2			
Stripping length	8 mm			
Connection data	solid [mm²]	stranded [mm²]	AWG	I [A] / U [V]
	0.2 - 4	0.2 - 2.5	24 - 12	- / -

Ordering data

Type	Order No.	Pcs. / Pkt.
EMG 75-LG	**2947378**	5
EMG 75-LG/O	**2941879**	5
EMG 75-LG/SET	**2940058**	10
EMG 75-B14	**2947381**	2

Accessories

EMG 75-H 7,5MM KLAR	**2947954**	5
EMG 75-H 15MM KLAR	**2947967**	5
EMG 75-H 52MM GN	**2947970**	5
P 1-EMG 75	**2947394**	5
MKDS 3/ 2	**1711026**	100
MKDS 3/ 3	**1711039**	100
MKDS 3/ 4	**1711042**	50
EMG-KA	**2941510**	50
EMG-GKS 12	**2947035**	50
EMG-GKS 22	**2941594**	50

Technical data

	H 7,5	H 15	H 35	H 52
Power dissipation P_V at 20°C in horizontal mounting position[1])				
Mounted in rows without spacing	4.1 W	5 W	-	6.1 W
Mounted in rows with min. 20 mm spacing	4.6 W	5.7 W	-	7.1 W
Type of housing				
Electronic housings	Polycarbonate fiber reinforced / V0			
Green cover	Polycarbonate fiber reinforced PC-F / V0			
Transparent cover	Polycarbonate, PC / V2			
Stripping length	8 mm			
Connection data	solid [mm²]	stranded [mm²]	AWG	I [A] / U [V]
	0.2 - 4	0.2 - 2.5	24 - 12	- / -

Ordering data

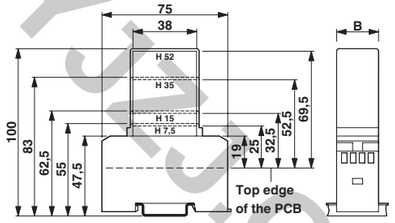
Type	Order No.	Pcs. / Pkt.
EMG 90-LG	**2946256**	5
EMG 90-LG/O	**2941581**	5
EMG 90-LG/SET	**2907884**	5
EMG 90-B17	**2946269**	5

Accessories

EMG 90-H 7,5MM KLAR	**2945396**	5
EMG 90-H 15MM KLAR	**2945406**	5
EMG 90-H 52MM GN	**2944300**	5
P 1-EMG 90	**2946272**	1
MKDS 3/ 2	**1711026**	100
MKDS 3/ 3	**1711039**	100
MKDS 3/ 4	**1711042**	50
EMG 90-ZE	**2941824**	5
EMG-KA	**2941510**	50
EMG-GKS 12	**2947035**	50
EMG-GKS 22	**2941594**	50

EMG system component housing

Notes:
Tightening torque of terminal block screws refer to page 854.
Marking systems and mounting material See Catalog 5
1) For information on power dissipation, see page 770.



B= Width



38-pos., width: 100 mm



48-pos., width: 125 mm



58-pos., width: 150 mm

Technical data

Power dissipation P_V at 20°C in horizontal mounting position[1])	H 7,5	H 15	H 35	H 52
Mounted in rows without spacing	6.9 W	8 W	-	8.9 W
Mounted in rows with min. 20 mm spacing	7.8 W	8.4 W	-	9.8 W
Type of housing				
Electronic housings	Polycarbonate fiber reinforced / V0			
Green cover	Polycarbonate fiber reinforced PC-F / V0			
Transparent cover	Polycarbonate, PC / V2			
Stripping length	8 mm			
Connection data	solid [mm²]	stranded [mm²]	AWG	I [A] / U [V]
	0.2 - 4	0.2 - 2.5	24 - 12	- / -

Technical data

H 7,5	H 15	H 35	H 52
9.5 W	10.6 W	-	11.6 W
11 W	12.4 W	-	13 W
Polycarbonate fiber reinforced / V0			
Polycarbonate fiber reinforced PC-F / V0			
Polycarbonate, PC / V2			
8 mm			
solid [mm²]	stranded [mm²]	AWG	I [A] / U [V]
0.2 - 4	0.2 - 2.5	24 - 12	- / -

Technical data

H 7,5	H 15	H 35	H 52
12.3 W	13.1 W	-	13.6 W
13.1 W	13.8 W	-	14.9 W
Polycarbonate fiber reinforced / V0			
Polycarbonate fiber reinforced PC-F / V0			
Polycarbonate, PC / V2			
8 mm			
solid [mm²]	stranded [mm²]	AWG	I [A] / U [V]
0.2 - 4	0.2 - 2.5	24 - 12	- / -

Ordering data

Description	Grid [mm]	No. of pos.	Width [mm]	Type	Order No.	Pcs. / Pkt.
Electronic housing, for PCB insertion, without screw connection terminal blocks and cover						
	5	38	100	**EMG100-LG**	**2947080**	5
	5	48	125			
	5	58	150			
Electronic housing, for PCB insertion, without screw connection terminal blocks and cover						
With open terminal space			100	**EMG100-LG/O**	**2907567**	5
			150			
Electronic housing, for PCB insertion, without screw connection terminal blocks and cover						
With lateral opening for connector			100	**EMG100-LG/MSTB**	**2907570**	5
			125			
			150			
Electronic housing set, consisting of electronic housings and printed circuit termination blocks						
	5	38	100	**EMG100-LG/SET**	**2906283**	5
Custom circuit module, consisting of housing, Connecting terminal blocks MKDS 3 and printed circuit board with solder tags, for soldering in electronic components						
	5			**EMG100-B19**	**2947093**	2

Ordering data

Type	Order No.	Pcs. / Pkt.
EMG125-LG	**2947983**	2
EMG125-LG/MSTB	**2943288**	2
EMG125-B24	**2947996**	2

Ordering data

Type	Order No.	Pcs. / Pkt.
EMG150-LG	**2946023**	2
EMG150-LG/O	**2906571**	2
EMG150-LG/MSTB	**2907596**	2
EMG150-B29	**2946036**	2

Accessories

Covering hood, for the contact and dust-protected encapsulation of the components			
Height 7.5 mm, transparent	**EMG100-H 7,5MM KLAR**	**2944193**	5
Height 15 mm, transparent	**EMG100-H 15MM KLAR**	**2943152**	5
Height 35 mm, transparent	**EMG100-H 35MM KLAR**	**2942218**	5
Height 52 mm, green	**EMG100-H 52MM GN**	**2944724**	5
PCB, for assembling electronic components	**P 1-EMG100**	**2947103**	5
5.0 mm pitch, color: green			
2	**MKDS 3/ 2**	**1711026**	100
3	**MKDS 3/ 3**	**1711039**	100
4	**MKDS 3/ 4**	**1711042**	50
Terminal block/screw cover, set consisting of 50 strips each for terminal blocks and screw openings, 1 strip covers 12 terminal points	**EMG-KA**	**2941510**	50
Equipment marker			
12	**EMG-GKS 12**	**2947035**	50
22	**EMG-GKS 22**	**2941594**	50

Accessories

EMG125-H 7,5MM KLAR	**2943194**	5	
EMG125-H 15MM KLAR	**2943181**	5	
EMG125-H 52MM GN	**2943518**	5	
P 1-EMG125	**2946010**	5	
MKDS 3/ 2	**1711026**	100	
MKDS 3/ 3	**1711039**	100	
MKDS 3/ 4	**1711042**	50	
EMG-KA	**2941510**	50	
EMG-GKS 12	**2947035**	50	
EMG-GKS 22	**2941594**	50	

Accessories

EMG150-H 7,5MM KLAR	**2943178**	5	
EMG150-H 15MM KLAR	**2943165**	5	
EMG150-H 52MM GN	**2943521**	5	
P 1-EMG150	**2946049**	5	
MKDS 3/ 2	**1711026**	100	
MKDS 3/ 3	**1711039**	100	
MKDS 3/ 4	**1711042**	50	
EMG-KA	**2941510**	50	
EMG-GKS 12	**2947035**	50	
EMG-GKS 22	**2941594**	50	

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EG beaker-type component housing

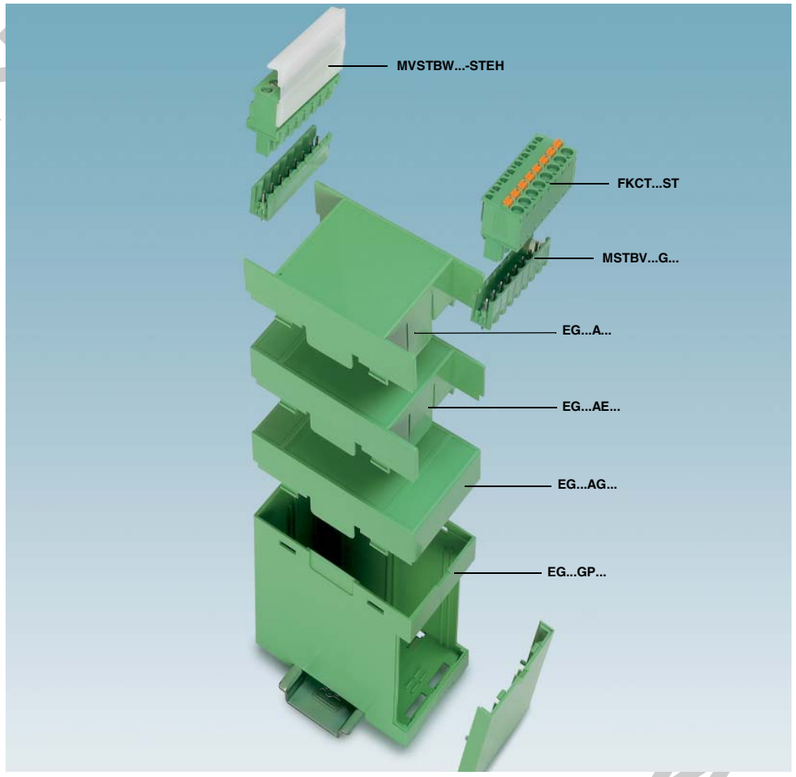
EG component housing is a range of industrial design housing in which a large number of professional industrial electronic components can be accommodated. This housing series includes a whole range of special functional features that support the production of series devices as well as practical applications in the control cabinet.

Key features:
- Tool-free mounting
- Functional and industry-oriented housing technology
- Optimum accommodation of electronic components with graded pitches with a design width of 22.5 mm, 45 mm, 67.5 mm, and 90 mm
- Practical and easy-to-wire conductor connection using extra finely stranded sturdy screw terminal blocks up to 2.5 mm²
- Shock and contamination-proof accommodation of electronic components (IP40 housing, IP20 terminal blocks)
- Fast snap-on mounting on symmetrical DIN rails according to EN 60715
- Date of manufacture and material and part identification embossed on housing (recyclability)

Materials

In the case of EG... electronics housing, you can choose between the standard EG...ABS version and the EG...PC version. The ABS version is suitable for maximum operating temperatures of up to 80°C.

The EG...PC version offers the following features:
- Inflammability class V0 according to UL 94
- Can be used up to a maximum operating temperature of 115°C
- Integrated metal foot catch, which ensures a firm hold on the DIN rail even at high ambient temperatures



Construction principle

The exploded view shows the construction principle of the housing. The base accommodates horizontally or vertically assembled PCBs including the connection elements. The cover is snapped onto the base securely and reliably.

Mounting

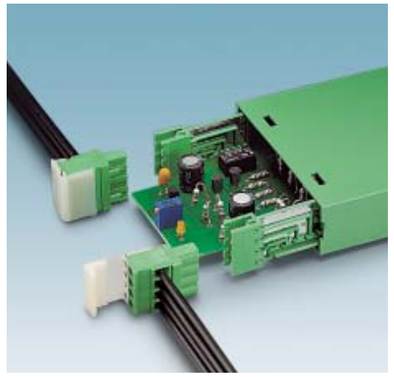
EG beaker-type component housing is aligned by snapping it onto symmetrical DIN rails according to EN 60715. It is removed by drawing back the foot element.

Accommodating electronic components

According to requirements, EG component housing can be combined with different types of individual housing elements. The housing bases are available with or without a test opening on the front. Housing with a test opening offers the option of tuning or readjusting pre-assembled devices during function testing or operation, e.g., by means of internal potentiometers or jumper panels.

A number of PCB guides in the housing provide flexibility for accommodating complex electronic components.

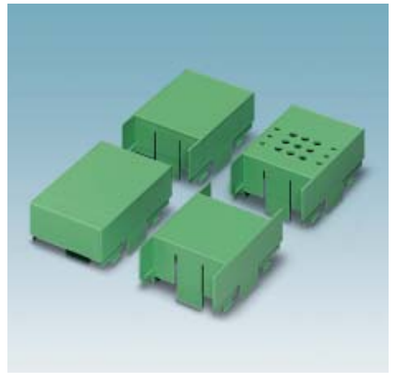
Electronics housing for industrial electronics and semi-industrial applications
Basic housings for universal use



The PCBs installed in EG component housing are rectangular.

Details of PCB dimensions and assembly areas, as well as their position in the housing can be found in the Download Center at www.phoenixcontact.net/products.

COMBICON headers with right-angled pin strip enable device designs with just one vertically inserted PCB with optimum use of space.



Covers

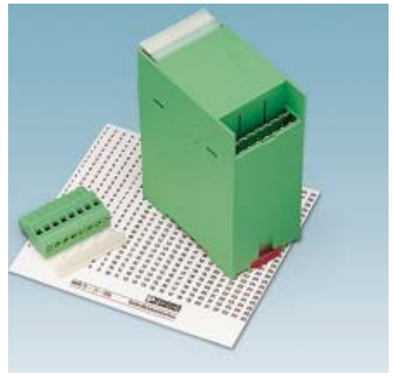
The covers, which are snapped onto the housing base, are either closed or have connection options on one or both sides. In addition, holes can be made in the front, e.g., for LEDs, potentiometer axes, etc. For this application, the cover offers the option of inserting a PCB underneath the holes.

Conductor connections

The connection elements fit the housing design perfectly and are available in the following versions:
- Sturdy 2.5 mm² screw connections in the form of the MKKDSH 3 PCB terminal block with 5 mm pitch
- Practical plug-in screw connection using COMBICON

The COMBICON connections are available in the following versions:
- COMBICON headers for use on horizontal or vertical PCBs
- COMBICON plugs with or without a hinged release aid

The connection elements can always be assembled together with the electronic components on the PCB and soldered together.



Marking

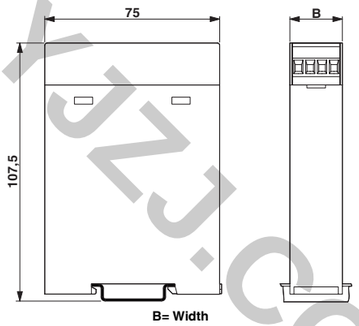
The connection terminal blocks are marked on the marking areas provided using standard and individually printed SK 5 marker strips. With larger orders, direct printing on the housing is also possible.

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EG beaker-type component housing

More housing dimensions, the lay-out of the PCBs, their dimensions and assembly areas can be found in the download center under: www.phoenixcontact.net/products

Notes:
Tightening torque of terminal block screws refer to page 854.
Marking systems and mounting material See Catalog 5
COMBICON plug connectors may only be activated under no load conditions. If for operating reasons small loads must be switched, empirical values are available upon request.
1) For information on power dissipation, see page 770.
2) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.





8-pos., width: 22.5 mm

Technical data

	EG 22,5-G/ABS GN				
Power dissipation P_V at 20°C in horizontal mounting position1)					
Mounted in rows without spacing	1.7 W	-	-	-	
Mounted in rows with min. 20 mm spacing	2.7 W	-	-	-	
Type of housing					
Electronic housings	Acryl butadiene styrene (ABS) / HB				
Connection data	solid [mm²]	stranded [mm²]	AWG	I [A]	U [V]
MKKDS...	0.2 - 4	0.2 - 2.5	24 - 12	24²)	250
MSTBV...	0.2 - 2.5	0.2 - 2.5	24 - 12	12	250
FKCT...	0.2 - 2.5	0.2 - 2.5	24 - 12	12	250

Ordering data

Description	Grid [mm]	No. of pos.	Width [mm]	Type	Order No.	Pcs. / Pkt.
Housing base, with snap-on foot				EG 22,5-G/ABS GN	2764043	10
Housing base, with snap-on foot and test opening with side cover				EG 22,5-GP/ABS GN	2764056	10
Housing cover, for connection on one side				EG 22,5-AE/ABS GN	2907046	25
Housing cover, for connection on both sides				EG 22,5-A/ABS GN	2764072	25
Housing cover, closed				EG 22,5-AG/ABS GN	2906636	10

Accessories

COMBICON headers, with right-angled pin strip					
Right			MSTBO 2,5/ 4-GR-5,08	1847123	50
Left			MSTBO 2,5/ 4-GL-5,08	1850453	50
COMBICON headers			MSTBV 2,5/ 4-G	1753479	250
COMBICON plug					
5.0 mm pitch	4		MVSTBW 2,5/ 4-ST	1792540	50
	8				
	9				
	13				
	17				
COMBICON plug					
5.08 mm pitch	4		MVSTBW 2,5/ 4-ST-5,08	1792773	50
	8				
COMBICON spring-cage plugs, with test connection, 5.0 mm pitch			FKCT 2,5/ 4-ST	1909236	50
COMBICON spring-cage plugs, with test connection, 5.08 mm pitch			FKCT 2,5/ 4-ST-5,08	1902136	50
COMBICON plug, with hinged release aid			MVSTBW 2,5/ 4-STEH	1784299	50
			MVSTBW 2,5/ 4-STEH-5,08	1851850	50
Coding section, for COMBICON headers, is inserted into the recess on the header			CR-MSTB	1734401	100
Coding profile, for COMBICON headers, is inserted into the slot on the plug, red insulating material			CP-MSTB	1734634	100
Printed circuit termination block, for soldering into the printed circuit board, 5.0 mm pitch					
2-pos.			MKKDSH 3/ 2	1721045	50
3-pos.			MKKDSH 3/ 3	1721346	50
8-pos.					

Electronics housing for industrial electronics and semi-industrial applications

Basic housings for universal use



16-pos., width: 45 mm

Technical data

	EG 45-G/ABS GN				
	3.4 W	-	-	-	
	6.1 W	-	-	-	
	Acryl butadiene styrene (ABS) / HB				
	solid [mm²]	stranded [mm²]	AWG	I [A]	U [V]
	0.2 - 4	0.2 - 2.5	24 - 12	24²)	250
	0.2 - 2.5	0.2 - 2.5	24 - 12	12	250
	0.2 - 2.5	0.2 - 2.5	24 - 12	12	250

Ordering data

Type	Order No.	Pcs. / Pkt.
EG 45-G/ABS GN	2764140	10
EG 45-GP/ABS GN	2764153	10
EG 45-AE/ABS GN	2764409	10
EG 45-A/ABS GN	2764179	10
EG 45-AG/ABS GN	2907363	10

Accessories

MSTBO 2,5/ 8-GR-5,08	1847165	50	
MSTBO 2,5/ 8-GL-5,08	1850495	50	
MSTBV 2,5/ 8-G	1753550	100	
MVSTBW 2,5/ 8-ST	1792582	50	
MVSTBW 2,5/ 8-ST-5,08	1792812	50	
FKCT 2,5/ 8-ST	1909278	50	
FKCT 2,5/ 8-ST-5,08	1902178	50	
MVSTBW 2,5/ 8-STEH	1784309	50	
CR-MSTB	1734401	100	
CP-MSTB	1734634	100	
MKKDSH 3/ 2	1721045	50	
MKKDSH 3/ 3	1721346	50	
MKKDSH 3/ 8	1703283	50	



26-pos., width: 67.5 mm

Technical data

	EG 67,5-G/ABS GN				
	5 W	-	-	-	
	7.5 W	-	-	-	
	Acryl butadiene styrene (ABS) / HB				
	solid [mm²]	stranded [mm²]	AWG	I [A]	U [V]
	0.2 - 4	0.2 - 2.5	24 - 12	24²)	250
	0.2 - 2.5	0.2 - 2.5	24 - 12	12	250
	0.2 - 2.5	0.2 - 2.5	24 - 12	12	250

Ordering data

Type	Order No.	Pcs. / Pkt.
EG 67,5-G/ABS GN	2764292	5
EG 67,5-GP/ABS GN	2764302	5
EG 67,5-AE/ABS GN	2907347	10
EG 67,5-A/ABS GN	2764357	10
EG 67,5-AG/ABS GN	2907376	10

Accessories

MVSTBW 2,5/ 4-ST	1792540	50
MVSTBW 2,5/ 9-ST	1792595	50
MVSTBW 2,5/13-ST	1792634	50
MSTBV 2,5/13-G	1753657	50
FKCT 2,5/13-ST	1909320	50
FKCT 2,5/13-ST-5,08	1902220	50
MVSTBW 2,5/ 4-STEH	1784299	50
MVSTBW 2,5/ 9-STEH	1763401	50
CR-MSTB	1734401	100
CP-MSTB	1734634	100
MKKDSH 3/ 2	1721045	50
MKKDSH 3/ 3	1721346	50
MKKDSH 3/ 8	1703283	50



34-pos., width: 90 mm

Technical data

	EG 90-G/ABS GN				
	6 W	-	-	-	
	9.1 W	-	-	-	
	Acryl butadiene styrene (ABS) / HB				
	solid [mm²]	stranded [mm²]	AWG	I [A]	U [V]
	0.2 - 4	0.2 - 2.5	24 - 12	24²)	250
	0.2 - 2.5	0.2 - 2.5	24 - 12	12	250
	0.2 - 2.5	0.2 - 2.5	24 - 12	12	250

Ordering data

Type	Order No.	Pcs. / Pkt.
EG 90-G/ABS GN	2764328	10
EG 90-GP/ABS GN	2764315	10
EG 90-AE/ABS GN	2907350	10
EG 90-A/ABS GN	2764399	10
EG 90-AG/ABS GN	2907389	10

Accessories

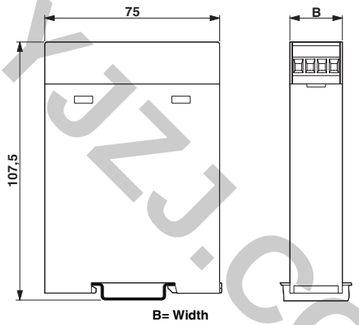
MSTBV 2,5/17-G	1753738	50
MVSTBW 2,5/ 8-ST	1792582	50
MVSTBW 2,5/ 9-ST	1792595	50
MVSTBW 2,5/17-ST	1792676	50
FKCT 2,5/17-ST	1909362	50
FKCT 2,5/17-ST-5,08	1902262	50
MVSTBW 2,5/ 8-STEH	1784309	50
MVSTBW 2,5/ 9-STEH	1763401	50
CR-MSTB	1734401	100
CP-MSTB	1734634	100
MKKDSH 3/ 2	1721045	50
MKKDSH 3/ 3	1721346	50
MKKDSH 3/ 8	1703283	50

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EG beaker-type component housing

More housing dimensions, the lay-out of the PCBs, their dimensions and assembly areas can be found in the download center under: www.phoenixcontact.net/products

Notes:
Tightening torque of terminal block screws refer to page 854.
Marking systems and mounting material See Catalog 5
COMBICON plug connectors may only be activated under no load conditions. If for operating reasons small loads must be switched, empirical values are available upon request.
1) For information on power dissipation, see page 770.
2) Please observe the current carrying capacity curves. Further current carrying capacity curves on request.





8-pos., width: 22.5 mm

Technical data

	EG 22,5-GMF/PC GN				
Power dissipation P_V at 20°C in horizontal mounting position1)					
Mounted in rows without spacing	1.7 W	-	-	-	
Mounted in rows with min. 20 mm spacing	2.7 W	-	-	-	
Type of housing					
Electronic housings	polycarbonate / V0				
Connection data	solid [mm²]	stranded [mm²]	AWG	I [A]	U [V]
MKKDS...	0.2 - 4	0.2 - 2.5	24 - 12	24 2)	250
MSTBV...	0.2 - 2.5	0.2 - 2.5	24 - 12	12	250
FKCT...	0.2 - 2.5	0.2 - 2.5	24 - 12	12	250

Ordering data

Description	Grid [mm]	No. of pos.	Width [mm]	Type	Order No.	Pcs. / Pkt.
Lower housing part, with metal foot catch				EG 22,5-GMF/PC GN	2764797	10
Housing base, with metal foot catch and test opening with side cover				EG 22,5-GMFP/PC GN	2764807	10
Housing cover For connection on one side				EG 22,5-AE/PC GN	2764810	10
Housing cover For connection on both sides				EG 22,5-A/PC GN	2764823	10
Housing cover, closed				EG 22,5-AG/PC GN	2764836	25

Accessories

COMBICON headers, with right-angled pin strip					
Right			MSTBO 2,5/ 4-GR-5,08	1847123	50
Left			MSTBO 2,5/ 4-GL-5,08	1850453	50
COMBICON headers			MSTBV 2,5/ 4-G	1753479	250
COMBICON plug 5.0 mm pitch		4	MVSTBW 2,5/ 4-ST	1792540	50
		8			
		9			
		13			
		17			
COMBICON plug 5.08 mm pitch		4	MVSTBW 2,5/ 4-ST-5,08	1792773	50
		8			
COMBICON spring-cage plugs, with test connection, 5.0 mm pitch			FKCT 2,5/ 4-ST	1909236	50
COMBICON spring-cage plugs, with test connection, 5.08 mm pitch			FKCT 2,5/ 4-ST-5,08	1902136	50
COMBICON plug, with hinged release aid			MVSTBW 2,5/ 4-STEH	1784299	50
			MVSTBW 2,5/ 4-STEH-5,08	1851850	50
Coding section, for COMBICON headers, is inserted into the recess on the header			CR-MSTB	1734401	100
Coding profile, for COMBICON headers, is inserted into the slot on the plug, red insulating material			CP-MSTB	1734634	100
Printed circuit termination block, for soldering into the printed circuit board, 5.0 mm pitch					
2-pos.			MKKDSH 3/ 2	1721045	50
3-pos.			MKKDSH 3/ 3	1721346	50
8-pos.					



16-pos., width: 45 mm

Technical data

	EG 45-GMF/PC GN				
	3.4 W	-	-	-	
	6.1 W	-	-	-	
	polycarbonate / V0				
	solid [mm²]	stranded [mm²]	AWG	I [A]	U [V]
	0.2 - 4	0.2 - 2.5	24 - 12	24 2)	250
	0.2 - 2.5	0.2 - 2.5	24 - 12	12	250
	0.2 - 2.5	0.2 - 2.5	24 - 12	12	250

Ordering data

Type	Order No.	Pcs. / Pkt.
EG 45-GMF/PC GN	2764849	10
EG 45-GMFP/PC GN	2764852	10
EG 45-AE/PC GN	2764865	10
EG 45-A/PC GN	2764878	10
EG 45-AG/PC GN	2764881	10

Accessories

MSTBO 2,5/ 8-GR-5,08	1847165	50
MSTBO 2,5/ 8-GL-5,08	1850495	50
MSTBV 2,5/ 8-G	1753550	100
MVSTBW 2,5/ 8-ST	1792582	50
MVSTBW 2,5/ 8-ST-5,08	1792812	50
FKCT 2,5/ 8-ST	1909278	50
FKCT 2,5/ 8-ST-5,08	1902178	50
MVSTBW 2,5/ 8-STEH	1784309	50
CR-MSTB	1734401	100
CP-MSTB	1734634	100
MKKDSH 3/ 2	1721045	50
MKKDSH 3/ 3	1721346	50
MKKDSH 3/ 8	1703283	50



26-pos., width: 67.5 mm

Technical data

	EG 67,5-GMF/PC GN				
	5 W	-	-	-	
	7.5 W	-	-	-	
	polycarbonate / V0				
	solid [mm²]	stranded [mm²]	AWG	I [A]	U [V]
	0.2 - 4	0.2 - 2.5	24 - 12	24 2)	250
	0.2 - 2.5	0.2 - 2.5	24 - 12	12	250
	0.2 - 2.5	0.2 - 2.5	24 - 12	12	250

Ordering data

Type	Order No.	Pcs. / Pkt.
EG 67,5-GMF/PC GN	2764894	10
EG 67,5-GMFP/PC GN	2764917	10
EG 67,5-AE/PC GN	2764920	10
EG 67,5-A/PC GN	2764933	10
EG 67,5-AG/PC GN	2764946	10

Accessories

MVSTBW 2,5/ 4-ST	1792540	50
MVSTBW 2,5/ 9-ST	1792595	50
MVSTBW 2,5/13-ST	1792634	50
MSTBV 2,5/13-G	1753657	50
FKCT 2,5/13-ST	1909320	50
FKCT 2,5/13-ST-5,08	1902220	50
MVSTBW 2,5/ 4-STEH	1784299	50
MVSTBW 2,5/ 9-STEH	1763401	50
CR-MSTB	1734401	100
CP-MSTB	1734634	100
MKKDSH 3/ 2	1721045	50
MKKDSH 3/ 3	1721346	50
MKKDSH 3/ 8	1703283	50



34-pos., width: 90 mm

Technical data

	EG 90-GMF/PC GN				
	6 W	-	-	-	
	9.1 W	-	-	-	
	polycarbonate / V0				
	solid [mm²]	stranded [mm²]	AWG	I [A]	U [V]
	0.2 - 4	0.2 - 2.5	24 - 12	24 2)	250
	0.2 - 2.5	0.2 - 2.5	24 - 12	12	250
	0.2 - 2.5	0.2 - 2.5	24 - 12	12	250

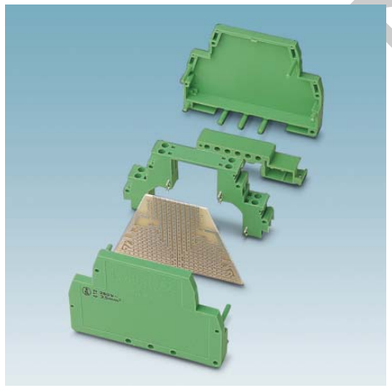
Ordering data

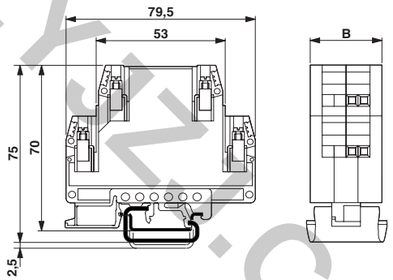
Type	Order No.	Pcs. / Pkt.
EG 90-GMF/PC GN	2764959	10
EG 90-GMFP/PC GN	2764962	10
EG 90-AE/PC GN	2764975	10
EG 90-A/PC GN	2764988	10
EG 90-AG/PC GN	2764991	10

Accessories

MSTBV 2,5/17-G	1753738	50
MVSTBW 2,5/ 8-ST	1792582	50
MVSTBW 2,5/ 9-ST	1792595	50
MVSTBW 2,5/17-ST	1792676	50
FKCT 2,5/17-ST	1909362	50
FKCT 2,5/17-ST-5,08	1902262	50
MVSTBW 2,5/ 8-STEH	1784309	50
MVSTBW 2,5/ 9-STEH	1763401	50
CR-MSTB	1734401	100
CP-MSTB	1734634	100
MKKDSH 3/ 2	1721045	50
MKKDSH 3/ 3	1721346	50
MKKDSH 3/ 8	1703283	50

Universal component housing UEG

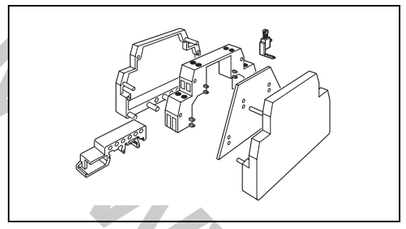




B= Width



8-pos. with screw connection, width: 20 mm



The universal UEG electronic housing can be supplied in two design widths with screw or slip-on connection.

Main features:

– Housing width of 20 mm or 30 mm
– Up to 16 connections on two levels
– Economical series production, since the base element and the assembled PCB are soldered by machine
– Efficient assembly thanks to overlapping housing parts
– Installation of one or two PCBs in the housing
– Can be snapped onto commercially available NS 35/7,5 and NS 35/15 DIN rails

Universal P1-UEG... PCBs are available for laboratory samples and small series.

More housing dimensions, the layout of the PCBs, their dimensions and assembly areas can be found in the download center under: www.phoenixcontact.net/products

Notes:
Tightening torque of terminal block screws refer to page 854.
Marking systems and mounting material See Catalog 5
1) For information on power dissipation, see page 770.
2) The nominal voltage applies to fully insulated slip-on sleeves. Voltage and current values are affected by the configuration of the printed circuit board.

Technical data

Power dissipation P_V at 20°C in horizontal mounting position[1]	UEG 20				
Mounted in rows without spacing	4 W	-	-	-	
Mounted in rows with min. 20 mm spacing	6 W	-	-	-	
Type of housing					
Electronic housings	Polyamide (PA 6.6) / V0				
Connection data	8 mm				
	solid [mm²]	stranded [mm²]	AWG	I [A]	U [V]
	0.2 - 4	0.2 - 2.5	24 - 12	10	500
Stripping length					

Ordering data

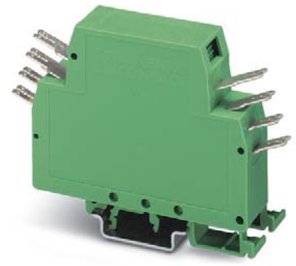
Description	Grid [mm]	No. of pos.	Width [mm]	Type	Order No.	Pcs. / Pkt.
Electronic housing, fully equipped with 4 screw or 4 slip-on connections per side, for one printed circuit board				**UEG 20**	**2790211**	10
Electronic housing, fully equipped with 4 screw or 4 slip-on connections per side, for one printed circuit board						
Electronic housing, fully equipped with 8 screw or 8 slip-on connections per side, for two printed circuit boards						

Accessories

PCB, for custom fitting electronic components	**P 1-UEG**	**2790224**	10
Insulating sleeve, as shock protection for 6.3 mm slip-on sleeves; slide over the cable first			
For 6.3 mm slip-on sleeves			
For 2.8 mm slip-on sleeves			
Loop bridge, 50-pos., divisible, max. bridging distance 60 mm, 0.5 mm², insulation, black	**DB 50- 90 BK**	**2820916**	1
Loop bridge, 50-pos., divisible, max. bridging distance 60 mm, 0.5 mm², insulation, gray	**DB 50- 90 GY**	**2820929**	1
Zack marker strip, 10-section, unprinted: pack contains enough to label 100 terminal blocks	**ZB 5 :UNBEDRUCKT**	**1050004**	10



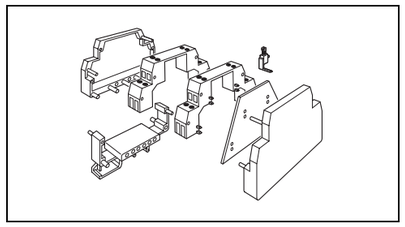
8- and 16-pos. with screw connection, width: 30 mm

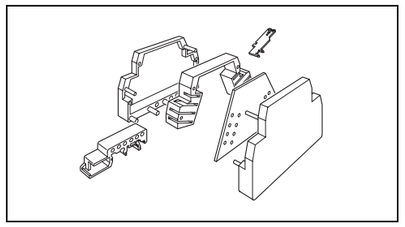


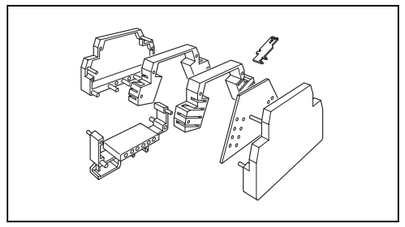
8-pos. with slotted 6.3/2.8 mm slip-on connection, width: 20 mm



8- and 16-pos. with slotted 6.3/2.8 mm slip-on connection, width: 30 mm







Technical data

UEG 30/1	UEG 30/2				
4 W	4 W	-	-		
7.2 W	7.2 W	-	-		
Polyamide (PA 6.6) / V0					
8 mm					
solid [mm²]	stranded [mm²]	AWG	I [A]	U [V]	
0.2 - 4	0.2 - 2.5	24 - 12	10	500	

Technical data

UEG 20-FS/FS					
4.8 W	-	-	-		
8 W	-	-	-		
Polyamide (PA 6.6) / V0					
8 mm					
solid [mm²]	stranded [mm²]	AWG	I [A]	U [V]	
0.2 - 4	0.2 - 2.5	24 - 12	10	500[2]	

Technical data

UEG 30/1-FS/FS	UEG 30/2-FS/FS				
4.8 W	4.8 W	-	-		
8 W	8 W	-	-		
Polyamide (PA 6.6) / V0					
8 mm					
solid [mm²]	stranded [mm²]	AWG	I [A]	U [V]	
0.2 - 4	0.2 - 2.5	24 - 12	10	500[2]	

Ordering data

Type	Order No.	Pcs. / Pkt.
UEG 30/1	**2790871**	10
UEG 30/2	**2790240**	10

Ordering data

Type	Order No.	Pcs. / Pkt.
UEG 20-FS/FS	**2790266**	10

Ordering data

Type	Order No.	Pcs. / Pkt.
UEG 30/1-FS/FS	**2790884**	10
UEG 30/2-FS/FS	**2790279**	10

Accessories

P 1-UEG	**2790224**	10
DB 50- 90 BK	**2820916**	1
DB 50- 90 GY	**2820929**	1
ZB 5 :UNBEDRUCKT	**1050004**	10

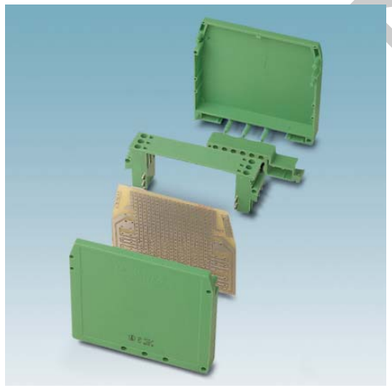
Accessories

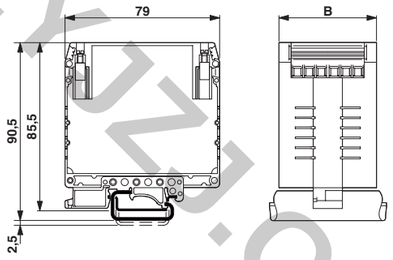
P 1-UEG-FS/FS	**2790428**	10
PT/FS 6,3	**0604707**	500
PT/FS 2,8	**1406700**	500
ZB 5 :UNBEDRUCKT	**1050004**	10

Accessories

P 1-UEG-FS/FS	**2790428**	10
PT/FS 6,3	**0604707**	500
PT/FS 2,8	**1406700**	500
ZB 5 :UNBEDRUCKT	**1050004**	10

Universal component housing UEGM





B= Width

The UEGM electronic housings supplement the UEG range and offer an enlarged internal area.

Main features:

– Four housing widths from 22.5 mm to 40 mm
– Choice of screw connections and/or slip-on connections
– Can be snapped onto commercially available NS 35/7,5 and NS 35/15 DIN rails
– Economical series production, since the base element and the assembled PCB are soldered by machine
– Efficient assembly thanks to overlapping housing parts
– Complex electronic circuits can be integrated, with up to 24 connections on two levels

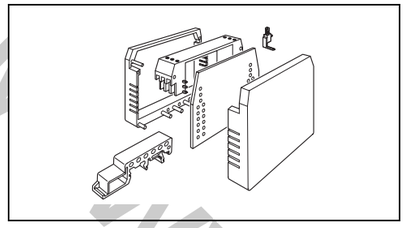
A P1-UEGM PCB is available for laboratory samples and small series.

More housing dimensions, the layout of the PCBs, their dimensions and assembly areas can be found in the download center under: www.phoenixcontact.net/products

Notes:
Tightening torque of terminal block screws refer to page 854.
Marking systems and mounting material See Catalog 5
1) For information on power dissipation, see page 770.
2) The nominal voltage applies to fully insulated slip-on sleeves. Voltage and current values are affected by the configuration of the printed circuit board.



6-pos. with screw connection, width: 22.5 mm, 25 mm, and 27.5 mm



Technical data

Power dissipation P_V at 20°C in horizontal mounting position[1]	UEGM 22,5	UEGM 25		
Mounted in rows without spacing	4 W	4 W	-	-
Mounted in rows with min. 20 mm spacing	10 W	10 W	-	-
Type of housing				
Electronic housings	Polyamide (PA 6.6) / V0			
Stripping length	8 mm			
Connection data	solid [mm²]	stranded [mm²]	AWG	I [A] / U [V]
	0.2 - 4	0.2 - 2.5	24 - 12	10 / 500

Ordering data

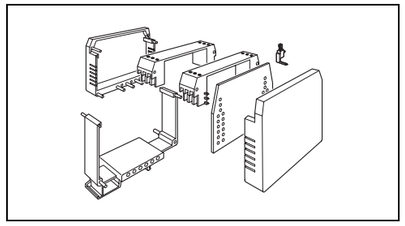
Description	Grid [mm]	No. of pos.	Width [mm]	Type	Order No.	Pcs. / Pkt.
Electronic housing, fully equipped with 3 screw or 6 slip-on connections per side, for one printed circuit board						
22.5 mm wide				**UEGM 22,5**	**2792002**	10
Electronic housing, fully equipped with 3 screw or 6 slip-on connections per side, for one printed circuit board						
25 mm wide				**UEGM 25**	**2792015**	10
27.5 mm wide				**UEGM 27,5-SMD**	**2757063**	10
Electronic housing, fully equipped with 3 screw or 6 slip-on connections per side, for one printed circuit board						
40 mm wide						
Electronic housing, fully equipped with 6 screw or 12 slip-on connections per side, for two printed circuit boards						
40 mm wide						

Accessories

PCB, for custom fitting electronic components	**P 1-UEGM**	**2792109**	10
Insulating sleeve, as shock protection for 6.3 mm slip-on sleeves; slide over the cable first			
For 6.3 mm slip-on sleeves	**PT/FS 6,3**	**0604707**	500
For 2.8 mm slip-on sleeves	**PT/FS 2,8**	**1406700**	500
Metal for slip-on connection, to increase the number of positions	**UEG-MT-FS**	**2790389**	100
Loop bridge, 50-pos., divisible, max. bridging distance 60 mm, 0.5 mm², insulation, black	**DB 50- 90 BK**	**2820916**	1
Loop bridge, 50-pos., divisible, max. bridging distance 60 mm, 0.5 mm², insulation, gray	**DB 50- 90 GY**	**2820929**	1



6- and 12-pos. with screw connection, width: 40 mm



Technical data

UEGM 40/1	UEGM 40/2			
5.2 W	5.2 W	-	-	
11.2 W	11.2 W	-	-	
Polyamide (PA 6.6) / V0				
8 mm				
solid [mm²]	stranded [mm²]	AWG	I [A]	U [V]
0.2 - 4	0.2 - 2.5	24 - 12	10	500

Ordering data

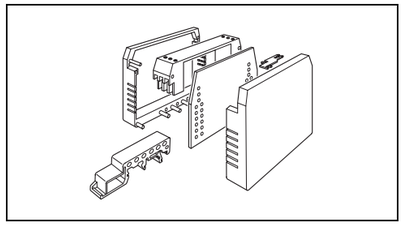
Type	Order No.	Pcs. / Pkt.
UEGM 40/1	**2792112**	10
UEGM 40/2	**2792028**	10

Accessories

P 1-UEGM	**2792109**	10
PT/FS 6,3	**0604707**	500
PT/FS 2,8	**1406700**	500
UEG-MT-FS	**2790389**	100
DB 50- 90 BK	**2820916**	1
DB 50- 90 GY	**2820929**	1



12-pos. with slotted 6.3/2.8 mm slip-on connection, width: 22.5 mm and 25 mm



Technical data

UEGM 22,5-FS/FS	UEGM 25-FS/FS			
4 W	4 W	-	-	
10 W	10 W	-	-	
Polyamide (PA 6.6) / V0				
-				
solid [mm²]	stranded [mm²]	AWG	I [A]	U [V]
0.2 - 4	0.2 - 2.5	24 - 12	10	500[2]

Ordering data

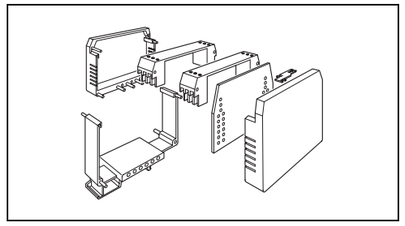
Type	Order No.	Pcs. / Pkt.
UEGM 22,5-FS/FS	**2792073**	10
UEGM 25-FS/FS	**2792086**	10

Accessories

P 1-UEGM	**2792109**	10
PT/FS 6,3	**0604707**	500
PT/FS 2,8	**1406700**	500



12- and 24-pos. with slotted 6.3/2.8 mm slip-on connection, width: 40 mm



Technical data

UEGM 40/1-FS/FS	UEGM 40/2-FS/FS			
5.2 W	5.2 W	-	-	
11.2 W	11.2 W	-	-	
Polyamide (PA 6.6) / V0				
-				
solid [mm²]	stranded [mm²]	AWG	I [A]	U [V]
0.2 - 4	0.2 - 2.5	24 - 12	10	500[2]

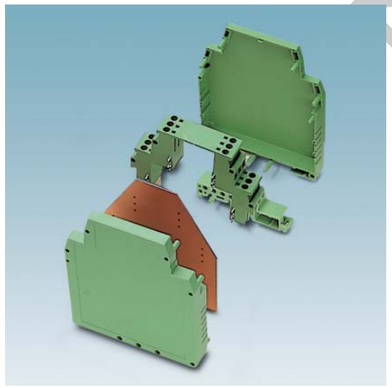
Ordering data

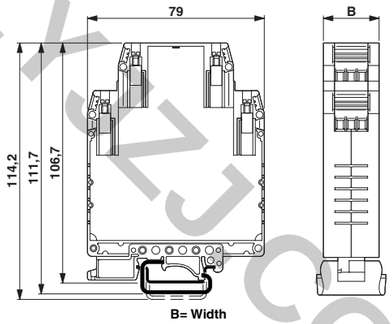
Type	Order No.	Pcs. / Pkt.
UEGM 40/1-FS/FS	**2792125**	10
UEGM 40/2-FS/FS	**2792099**	10

Accessories

P 1-UEGM	**2792109**	10
PT/FS 6,3	**0604707**	500
PT/FS 2,8	**1406700**	500

Universal component housing UEGH





The UEGH double-level electronic housing offers double connection options for extensive electronic circuits.

Main features:

- Six housing widths from 22.5 mm to 45 mm
- 12 or 24 screw connections available
- Increased number of positions thanks to optional UEGM-MT FS slip-on connections
- Can accommodate up to two PCBs
- UEGH...-SMD versions offer space for PCBs equipped with SMDs on both sides
- Efficient assembly thanks to overlapping housing parts
- Can be snapped onto commercially available NS 35/7,5 and NS 35/15 DIN rails

A P1-UEGH PCB is available for laboratory samples and small series.

More housing dimensions, the layout of the PCBs, their dimensions and assembly areas can be found in the download center under: www.phoenixcontact.net/products

Notes:
Tightening torque of terminal block screws refer to page 854.
Marking systems and mounting material See Catalog 5
[1]) For information on power dissipation, see page 770.



12-pos. with screw connection, widths: 22.5 mm, 25 mm, and 27.5 mm

Technical data

	UEGH 22,5	UEGH 25	UEGH 27,5-SMD	
Power dissipation P_V at 20°C in horizontal mounting position[1])				
Mounted in rows without spacing	4.6 W	4.8 W	5 W	-
Mounted in rows with min. 20 mm spacing	6.7 W	7.2 W	7.5 W	-
Type of housing				
Electronic housings	Polyamide (PA 6.6) / V0			
Stripping length	8 mm			
Connection data				

solid [mm²]	stranded [mm²]	AWG	I [A]	U [V]
0.2 - 4	0.2 - 2.5	24 - 12	10	500

Ordering data

Description	Grid [mm]	No. of pos.	Width [mm]	Type	Order No.	Pcs. / Pkt.
Electronic double-level housing, fully equipped with 6 screw connections per side, for one PCB	5	12	22.5	**UEGH 22,5**	**2757102**	10
	5	12	25	**UEGH 25**	**2757115**	10
Electronic double-level housing, fully equipped with 6 screw connections per side, for one printed circuit board, with a wider side element for equipping the PCB with SMD components	5	12	27.5	**UEGH 27,5-SMD**	**2757128**	10
Electronic double-level housing, fully equipped with 6 screw connections per side, for one PCB	5	12	40			
Electronic double-level housing, fully equipped with 12 screw connections per side, for two PCBs	5	24	40			
Electronic double-level housing, 6 screw connections per side, with a wider side element for equipping the PCB with SMD components	5	12	42.5			
Electronic double-level housing, fully equipped with 12 screw connections per side, for two printed circuit boards, with a wider side element for equipping the PCB with SMD components	5	24	42.5			
Electronic double-level housing, fully equipped with 12 screw connections per side, for two printed circuit boards, for mounting two 7.5 mm side elements	5	24	45			

Accessories

PCB, for custom fitting electronic components	**P 1-UEGH**	**2757335**	10
Loop bridge, 50-pos., divisible, max. bridging distance 60 mm, 0.5 mm², insulation, black	**DB 50- 90 BK**	**2820916**	1
Loop bridge, 50-pos., divisible, max. bridging distance 60 mm, 0.5 mm², insulation, gray	**DB 50- 90 GY**	**2820929**	1
Metal for slip-on connection, to increase the number of positions	**UEG-MT-FS**	**2790389**	100
Zack marker strip, 10-section, unprinted: pack contains enough to label 100 terminal blocks	**ZB 5 :UNBEDRUCKT**	**1050004**	10



12- and 24-pos. with screw connection, widths: 40 mm, 42.5 mm, and 45 mm

Technical data

UEGH 40/1	UEGH 40/2	UEGH 42,5/1-SMD	UEGH 45/2-SMD
6.1 W	6.1 W	6.3 W	6.5 W
9.1 W	9.1 W	9.5 W	9.8 W
Polyamide (PA 6.6) / V0			
8 mm			

solid [mm²]	stranded [mm²]	AWG	I [A]	U [V]
0.2 - 4	0.2 - 2.5	24 - 12	10	500

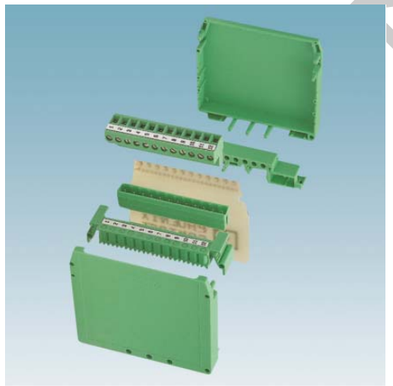
Ordering data

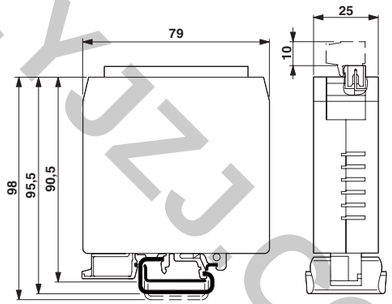
Type	Order No.	Pcs. / Pkt.
UEGH 40/1	**2757144**	10
UEGH 40/2	**2757131**	10
UEGH 42,5/1-SMD	**2757157**	10
UEGH 42,5/2-SMD	**2757160**	10
UEGH 45/2-SMD	**2757173**	10

Accessories

P 1-UEGH	**2757335**	10
DB 50- 90 BK	**2820916**	1
DB 50- 90 GY	**2820929**	1
UEG-MT-FS	**2790389**	100
ZB 5 :UNBEDRUCKT	**1050004**	10

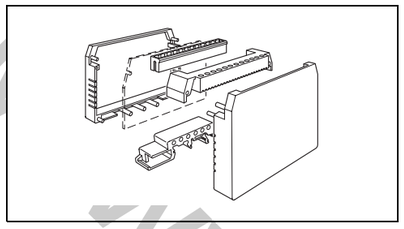
Universal component housing
UEGM-MSTB







12-pos. with pluggable connection, width: 22.5 mm



The UEGM-MSTB electronic housing supplements the UEG range by offering an additional pluggable version

Main features:

– The integrated pin strip makes it possible to use 2- to 12-pos. COMBICON connectors
– Integration of 3 mm LEDs (max. leg length of 29 mm)
– LED cutouts that are not required can be closed with UEGM MSTB-BS filler plugs
– Plug-in connection can be keyed to prevent incorrect polarity using CP-MSTB/CR-MSTB
– Efficient assembly thanks to overlapping housing parts
– Can be snapped onto commercially available NS 35/7,5 and NS 35/15 DIN rails
– The MSTB-BL keying tab can be used to cover individual contact pins in order to form sections on the pin strip.

More housing dimensions, the layout of the PCBs, their dimensions and assembly areas can be found in the download center under: www.phoenixcontact.net/products

Notes:
Tightening torque of terminal block screws refer to page 854.
Marking systems and mounting material See Catalog 5
COMBICON plug connectors may only be activated under no load conditions. If for operating reasons small loads must be switched, empirical values are available upon request.
Voltage and current values are affected by the configuration of the printed circuit board.
1) For information on power dissipation, see page 770.
2) Please observe the derating curves. Derating curves of further combination options on request.

Technical data

Power dissipation P_V at 20°C in horizontal mounting position[1]	UEGM-MSTB				
Mounted in rows without spacing	4 W	-	-	-	
Mounted in rows with min. 20 mm spacing	10 W	-	-	-	
Type of housing					
Electronic housings	Polyamide (PA 6.6) / V0				
Connection data	solid [mm²]	stranded [mm²]	AWG	I [A]	U [V]
MSTBT 2,5/...	0.2 - 2.5	0.2 - 2.5	24 - 12	12[2]	250

Ordering data

Description	Grid [mm]	No. of pos.	Width [mm]	Type	Order No.	Pcs. / Pkt.
Electronic housings, with 12-position COMBICON pin strip, can be additionally equipped with 3 mm LED light indicator		12	25	**UEGM-MSTB**	**2781453**	10
COMBICON connector	5.08	12		**MSTBT 2,5/12-ST-5,08**	**1781085**	50

Accessories

Keying tab, for MSTB headers, for dividing headers, plugged onto the header pin, made from green insulation material	**MSTB-BL**	**1755477**	100
Cover cap, for closing LED cutouts which are not required	**UEGM-MSTB-BS**	**2781466**	60
Coding profile, for COMBICON headers, is inserted into the slot on the plug, red insulating material	**CP-MSTB**	**1734634**	100
Coding section, for COMBICON headers, is inserted into the recess on the header	**CR-MSTB**	**1734401**	100
Marker pen, not refillable, for manual labeling, line thickness 0.5 mm	**B-STIFT**	**1051993**	10
Zack marker strip, 10-section, unprinted: pack contains enough to label 100 terminal blocks	**ZB 5 :UNBEDRUCKT**	**1050004**	10

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Housing multifunction



With lots of installation space, a simple PCB contour, and robust design, these housing ranges provide ample space for large components and PCBs.

Electronics housing for industrial electronics and semi-industrial applications
Multifunctional housings for complex electronics



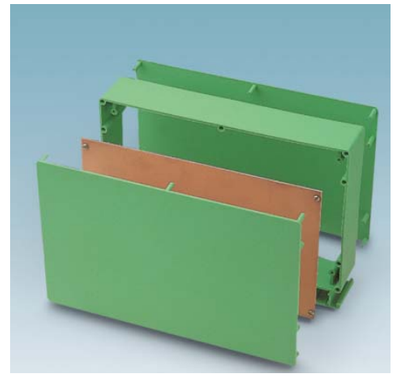
ME-PLC housing range

Your advantages at a glance:
– Hard soldered or plug-in PCB connection technology
– Removable tray for convenience when plugging in and removing connection technology
– Optional with DIN rail connector
– Hinged cover for uniform front panel
– Robust DIN rail, 105 mm wide



CM housing range

Your advantages at a glance:
– Robust housing type
– Receptacle housing with vents
– A variety of cover designs
– Housing designs for wall mounting
– Individual housing concepts for flexibility where PCB connection technology is concerned



UEG-EU housing

Your advantages at a glance:
– For European-format cards (160 x 100 mm)
– Direct fastening of PCB with secure screw connection
– Frame design concept for convenient expansion of installation space
– Individual housing concepts for flexibility where PCB connection technology is concerned

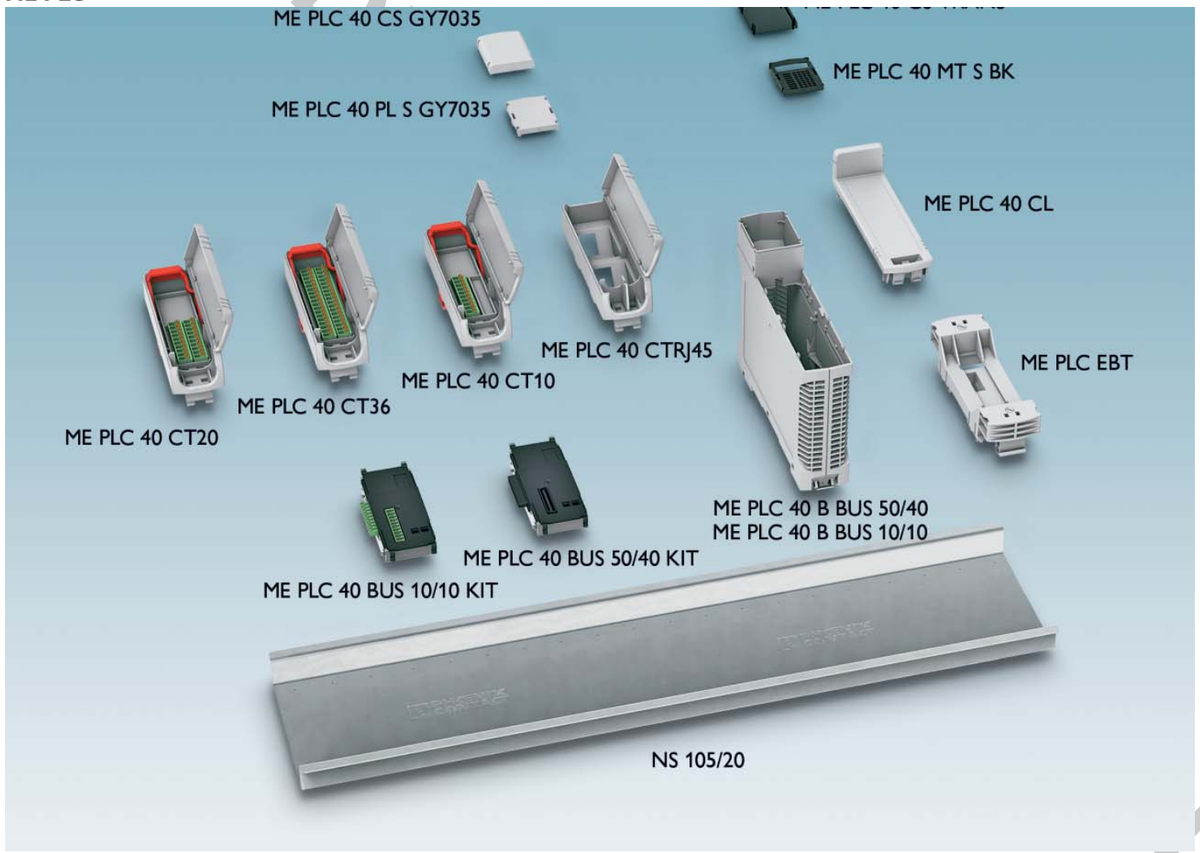


EFG housing

Your advantages at a glance:
– Half-shell design with fitted cover in three parts
– PCBs fitted with SMDs on both sides can be integrated
– Secure screw connection between housing and PCB
– Individual housing concepts for flexibility where PCB connection technology is concerned

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ME PLC



The ME PLC consists of a housing base with a design width of 40 mm that can be combined with various plug-in connection technology modules. The connection technology modules are supplied fully pre-assembled with FKCN 2,5... plug-in connectors. These plug-in connectors provide a quick push-in spring-cage connection for conductor cross sections of up to 2.5 mm².

A universal cover for fixed wiring or indicators and operating elements can also be snapped on with very little effort.

The ME-PLC housing can also be combined with DIN rail connectors. 2 versions of the bus connector are available: 50-pos. in the DIN rail and 40-pos. in the device or 10-pos. in the DIN rail and 10-pos. in the device.

Both bus connector versions are supplied as a mounting kit, i.e., without PCB and unmounted. This means that individual and application-specific PCB designs can be integrated easily.

Together with a large PCB assembly area, this housing system offers a high level of functionality for a wide range of applications.

The wide DIN rail ensures a secure hold.

Order key for DIN rail NS 105/20:

Quantity	Order No.	Length [mm]
1	2201508	40 Min. 40 mm Max. 2000 mm

Electronics housing for industrial electronics and semi-industrial applications
Multifunctional housings for complex electronics

ME-PLC

N





Notes:

[1]) Data sheets for the plug-in connectors are available from **www.phoenixcontact.net/products**

Description	Grid [mm]	No. of pos.	Width [mm]	Type	Order No.	Pcs. / Pkt.
Housing base, suitable for 50/40 bus connector, color: light gray				**ME PLC 40 B BUS 50/40 GY7035**	**2201500**	10
Housing base, suitable for 10/10 bus connector, color: light gray				**ME PLC 40 B BUS 10/10 GY7035**	**2201499**	10
Universal cover, long design, color: light gray				**ME PLC 40 CL GY7035**	**2201505**	10
Connection technology carrier, fully assembled with FKCN 2 x 10-pos., cover and release lever, incl. fitted cover; corresponding header: 1 x CCDN 2,5/10-G1 P26 THR (1734355)				**ME PLC 40 CT20 GY7035**	**2201493**	10
Connection technology carrier, fully assembled with FKCN 2 x 18-pos., cover and release lever, incl. fitted cover; corresponding header: 1 x CCDN 2,5/18-G1 P26 THR (1734436)				**ME PLC 40 CT36 GY7035**	**2201494**	10
Connection technology carrier, fully assembled with FKCN 1 x 10-pos., cover and release lever, incl. fitted cover; corresponding header: MSTBA 2,5/10-G (1757543)				**ME PLC 40 CT10 GY7035**	**2201492**	10
Connection technology carrier for RJ45 connection, pre-assembled with cover and release lever; incl. fitted cover and 2 x RJ45 connector plugs				**ME PLC 40 CTRJ45 GY7035**	**2201495**	10
Accessories						
Cover, short design, color: light gray				**ME PLC 40 CS GY7035**	**2201490**	10
Cover, short design, color: transparent				**ME PLC 40 CS TRANS**	**2201491**	10
Fitted plate, for assembly underneath the cover in short design, color: light gray				**ME PLC 40 PL S GY7035**	**2201497**	10
Matrix with defined engagement mechanism, for assembly underneath the cover in short design, color: black				**ME PLC 40 MT S BK**	**2201496**	10
Bus connector set consisting of 50-pos. and 40-pos. plug-in connectors, plastic upper part and base, plus metal clamp for mounting on DIN rail, without PCB[1])				**ME PLC 40 BUS 50/40 KIT BK**	**2201502**	10
Bus connector set consisting of 2 x 10-pos. plug-in connectors, plastic upper part and base, plus metal clamp for mounting on DIN rail, without PCB[1])				**ME PLC 40 BUS 10/10 KIT BK**	**2201503**	10
End brackets for DIN rail mounting, incl. mounting screws				**ME PLC EBT GY7035**	**2201498**	10
DIN rail, unperforated, 105 x 20 mm, galvanized and thick layer passivated, cut to customer-specific length, specify length in [mm] as per order key				**NS 105/20 UNPERF**	**2201508**	1

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CM compact component housing

CM component housing is a comprehensive housing range for designing industrial power electronics to suit control cabinet requirements. The different housing versions make it possible to integrate not only power electronics in the housing, but also standard transformer types with L-shaped cores.

Common features of all CM housing:

– Robust housing technology
– Individual accommodation of electronic components in various module versions with 50 to 200 mm pitch
– Flexible accommodation of different connection elements (from high-position plug-in connectors to electronic PCBs)
– Shock and contamination-proof accommodation of electronic components
– Easy snap-on mounting on symmetrical DIN rails according to EN 60715

Construction principle

The exploded view shows the construction principle of CM housing. The assembled PCB can be inserted in the different guide slots in the housing base. The covering hood is then simply snapped into the housing base.

It is also possible to screw the covering hood and the housing base together.

Accommodating electronic components

The various housing versions enable optimum adaptation to the required PCB area and the required connection technology.

For mounting transformers, spacing bolts are provided in the larger housing versions, onto which the transformers can be screwed.

The PCB is rectangular. **Details of PCB dimensions and assembly areas can be found in the Download Center at www.phoenixcontact.com.**

Housing technology

The covering hoods for CM 175 with a design height of 35 mm and CM 200 with a design height of 55 mm are always provided with vents. CM housing is designed to accommodate PCBs, which can be used as bus PCBs, for example, in the bottom of the housing.

Individual housing parts that differ from the standard range are available on request.

Mounting

All CM housing is aligned by simply snapping it onto symmetrical DIN rails according to EN 60715. It can be removed by drawing back the orange engagement latch.

There is also the option of using mounting feet instead of DIN rails. The corresponding spacer elements are included with CM 125 - 200 housing.

Conductor connections

CM electronics housing is supplied without recesses for connection elements.

It is therefore possible to make the appropriate recesses in the housing to suit the requirements of the relevant electronic component and connection element. These recesses can be produced in the factory on request.

Electronics housing for industrial electronics and semi-industrial applications
Multifunctional housings for complex electronics

● Standard (with vents)
○ On request

CM housing	Type Design width [mm]	Covering hoods 12.5 mm	30 mm	35 mm	55 mm	Types With vents and spacing bolts	Without vents, with spacing bolts	With vents, without spacing bolts	Without vents, without spacing bolts	With vents, spacing bolts, and device holder
	CM 50 50 mm	●	●					●	○	
	CM 62 62 mm			●		○	○	●	○	
	CM 75 75 mm	●		●		○		●		
	CM 90 90 mm	●				○	○	●	○	
	CM 125 125 mm	●		●		●	○	●	○	●
	CM 175 175 mm			●		●	○			●
	CM 200 200 mm				●	●	○			●

CM compact component housing

More housing dimensions, the lay-out of the PCBs, their dimensions and assembly areas can be found in the download center under: www.phoenixcontact.net/products

Notes:

[1]) For information on power dissipation, see page 770.



Design widths: 50 and 75 mm



Design widths: 62 and 90 mm

	Technical data				Technical data			
Power dissipation P_V at 20°C in horizontal mounting position[1])	CM 50-LG/H 12,5/BO BK	CM 50-LG/H 30/BO BK	CM 75-LG/H 12,5/BO BK	CM 75-LG/H 35/BO BK	CM 90-LG/H 12,5/BO BK	CM 62-LG/H 35/BO BK		
Mounted in rows without spacing	25 W	26.8 W	31.7 W	40.3 W	37 W	20.8 W	-	-
Mounted in rows with min. 20 mm spacing	38.3 W	39 W	41.2 W	52.5 W	48.1 W	24.4 W	-	-
Type of housing								
Electronic housings	Polycarbonate fiber reinforced / V0				Polycarbonate fiber reinforced / V0			

	Ordering data			Ordering data		
Description	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Electronic module, for PCB insertion with covering hood 12.5 mm high Vents Vents Plus spacer pins	**CM 50-LG/H 12,5/BO BK** **CM 75-LG/H 12,5/BO BK**	**2943592** **2943602**	5 5	**CM 90-LG/H 12,5/BO BK**	**2944876**	4
Electronic module, for PCB insertion, with covering hood 30 mm high Vents	**CM 50-LG/H 30/BO BK**	**2942878**	5			
Electronic module, for PCB insertion, with covering hood 35 mm high Vents Plus spacer pins Plus device holder	**CM 75-LG/H 35/BO BK**	**2942881**	5	**CM 62-LG/H 35/BO BK**	**2944863**	5
Electronic module, for PCB insertion, with covering hood 55 mm high Plus device holder						



Design width: 125 mm



Design width: 175 mm



Design width: 200 mm

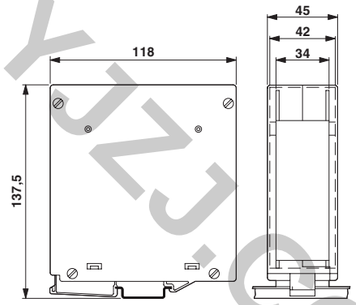
	Technical data				Technical data				Technical data				Technical data			
	CM125-LG/H 12,5/BO BK	CM125-LG/H 35/BO/DB/GH BK			CM175-LG/H 35/BO/DB/GH BK				CM200-LG/H 55/BO/DB/GH BK							
Mounted in rows without spacing	69 W	84.4 W	-	-	120 W	-	-	-	160 W	-	-	-				
Mounted in rows with min. 20 mm spacing	89.7 W	109.7 W	-	-	160 W	-	-	-	200 W	-	-	-				
Type of housing																
Electronic housings	Polycarbonate fiber reinforced / V0				Polycarbonate fiber reinforced / V0				Polycarbonate fiber reinforced / V0							

	Ordering data			Ordering data			Ordering data		
	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Electronic module, for PCB insertion with covering hood 12.5 mm high Vents Vents Plus spacer pins	**CM125-LG/H 12,5/BO BK** **CM125-LG/H 12,5/BO/DB BK**	**2942894** **2943055**	5 5						
Electronic module, for PCB insertion, with covering hood 30 mm high Vents									
Electronic module, for PCB insertion, with covering hood 35 mm high Vents Plus spacer pins Plus device holder	**CM125-LG/H 35/BO BK** **CM125-LG/H 35/BO/DB BK** **CM125-LG/H 35/BO/DB/GH BK**	**2942904** **2941691** **2941840**	5 5 5				**CM175-LG/H 35/BO/DB/GH BK**	**2941507**	5
Electronic module, for PCB insertion, with covering hood 55 mm high Plus device holder										**CM200-LG/H 55/BO/DB/GH BK**	**2941853**	1

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EFG single component housing







Any number of positions, width: 45 mm

The EFG 45 housing consists of two half shells and a set of three front plates. The front plate insert can be processed and printed cost-effectively.

Two PCBs with components on both sides can be integrated into the EFG 45 housing. A distance of 4.0 mm is available between the PCB and the inner side of the housing in order to be able to also use PCBs equipped with SMD on both sides. Complex functions can be implemented on a PCB surface of 112 x 115 mm.

The electronics assembly in the housing is significantly simplified by the half shell design and the front plate insert. The PCBs and the housing are screwed into place. This makes them highly stable.

The EFG 45 housing is snap-locked onto the symmetrical DIN rail in acc. with EN 60715.

Details of PCB layout, dimensions, and assembly areas can be found in the download center at **www.phoenixcontact.net/products**.

Technical data

Power dissipation P_V at 20°C in horizontal mounting position[2])	EFG 45-LG/BS GY				
Mounted in rows without spacing	9.5 W	-	-	-	
Mounted in rows with min. 20 mm spacing	11.5 W	-	-	-	
Type of housing					
Electronic housings	polycarbonate / V0				
Connection data	solid [mm²]	stranded	AWG	I [A]	U [V]
FRONT 2,5-H/ ...	0.2 - 2.5	0.2 - 2.5	24 - 14	24[3])	250[1])

Ordering data

Description	Type	Order No.	Pcs. / Pkt.
Electronic housing, for insertion of two printed circuit boards			
Without screw connection terminal blocks	**EFG 45-LG/BS GY**	**2757474**	5

Accessories

PCB and COMBICON termination blocks, color: Green	**FRONT 2,5-H/SA 5**	**1700008**	50

Notes:

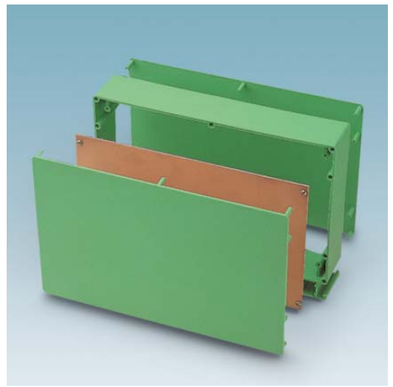
Tightening torque of terminal block screws refer to page 854.

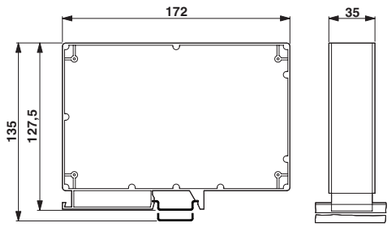
[1]) 400 V is achieved when the pitch spacer RZ 2,5-FRONT 2,5-H(V) is inserted.

[2]) For information on power dissipation, see page 770.

[3]) Current carrying capacity curve upon request.

Universal component housing UEG-EU







Any number of positions, for European-format cards, width: 35 mm

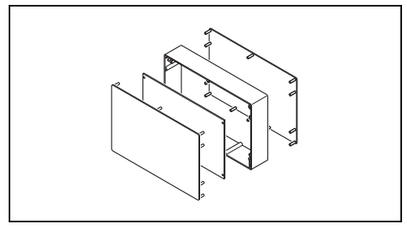
The rail-mountable UEG-EU component housing accepts European-format cards (160 x 100 mm).

Main features:

- Direct mounting of the PCB on the UEG-EU BE base element with B 2.2 x 9.5 DIN ISO 1481 sheet-metal screws
- Individual UEG-EU-BE base elements can be added in a row to extend the installation space
- UEG-EU-VS connection pins ensure the necessary stability
- Snap-in mounting on commercially available EN DIN rails
- We will be happy to provide custom cutouts in the base element for connection elements

In order to install PCBs with tall components, it is possible to mount several individual base elements in rows. Engaging metal pins ensures the necessary stability.

More housing dimensions, the layout of the PCBs, their dimensions and assembly areas can be found in the download center under: www.phoenixcontact.net/products



Technical data

Power dissipation P_V at 20°C in horizontal mounting position[1])	UEG-EU-BE			
Mounted in rows without spacing	8.9 W	-	-	-
Mounted in rows with min. 20 mm spacing	18.3 W	-	-	-
Type of housing				
Electronic housings	Polyamide fiber reinforced / HB			
	-	-	-	-

Ordering data

Description	Type	Order No.	Pcs. / Pkt.
Electronic housing, comprising: base element with snap-on foot, for mounting on NS 35 DIN rails, 35 mm wide	**UEG-EU-BE**	**2956819**	5
Side element, two pieces required, for closing the base element on both sides, 1.5 mm thick	**UEG-EU-SE**	**2956822**	5

Accessories

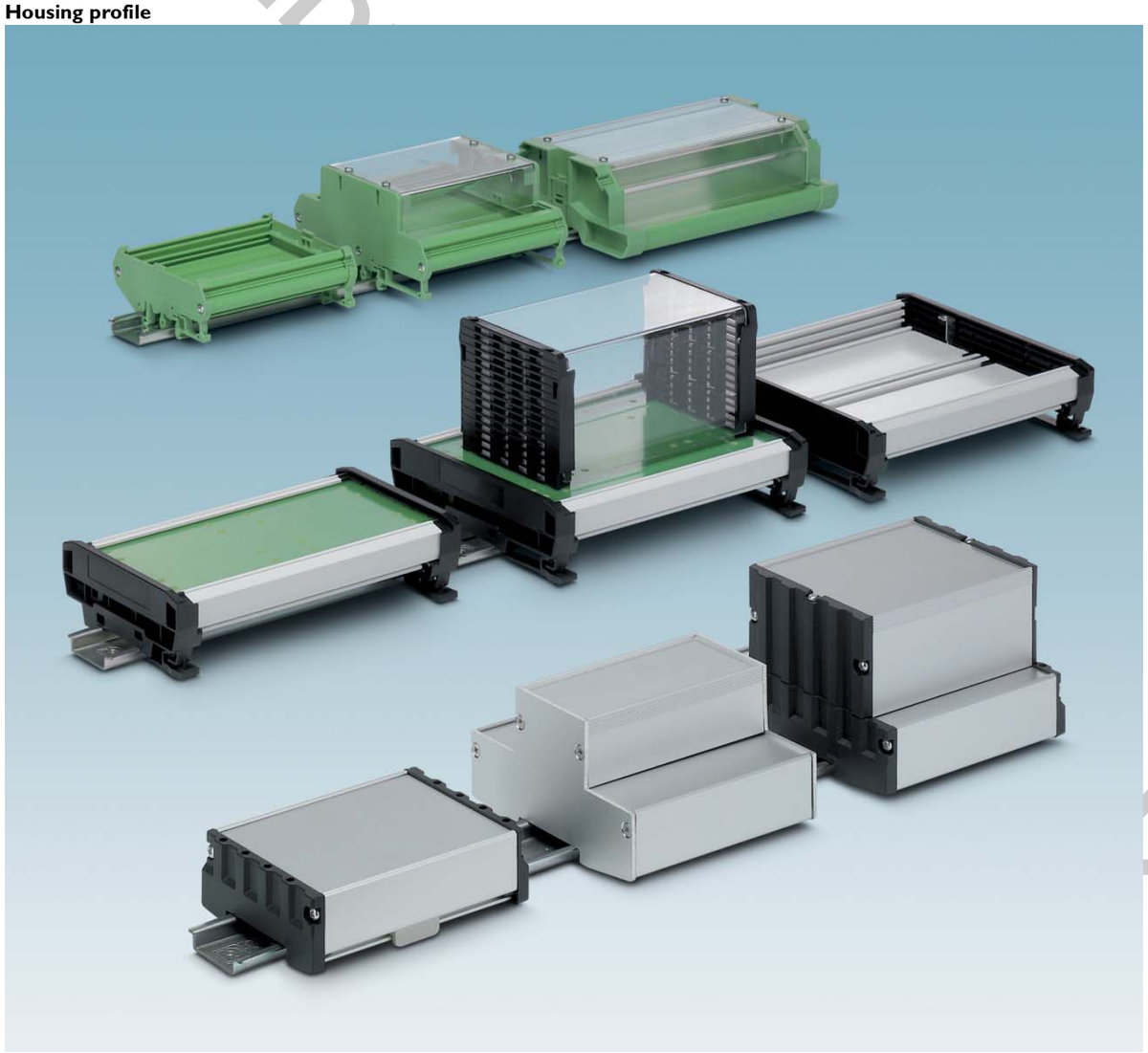
Connection pin, for engaging several base elements to form one unit; 12 necessary per element, brass	**UEG-EU-VS**	**5028883**	100

Notes:

[1]) For information on power dissipation, see page 770.

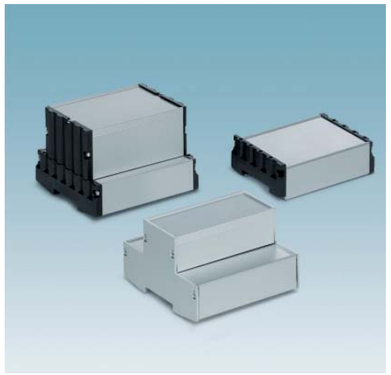
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Housing profile

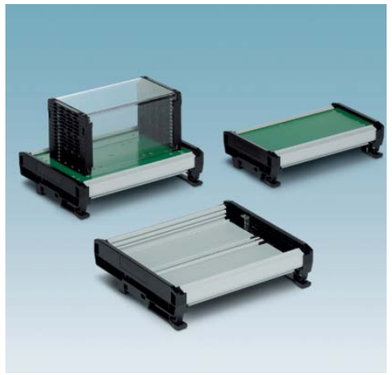


The profile housings offer maximum flexibility. Cut to length to the centimeter, made from plastic and metal, and featuring covering hoods, these housing ranges can be customized for individual device concepts.

Electronics housing for industrial electronics and semi-industrial applications
Profile racks and adapters



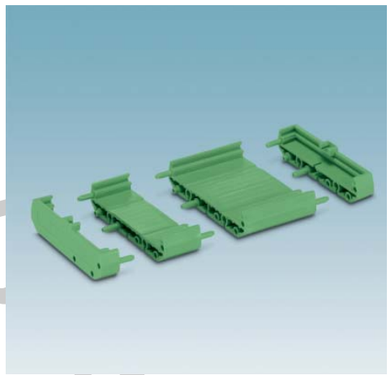
UM-ALU housing range
Your advantages at a glance:
– Material: aluminum
– Profile housing can be screwed together with side sections
– Basic profile width 72 mm or 100.5 mm
– Individual profile length
– Selection of cover profiles
– Optional PE contacting
– Freely selectable connection technology



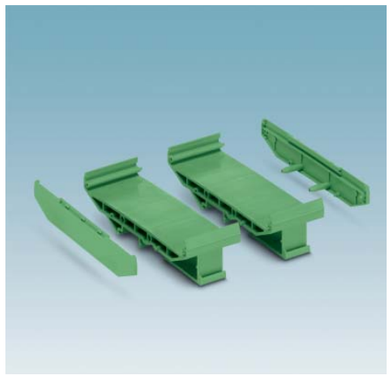
UM-PRO and UM-Basic housing range
Your advantages at a glance:
– Material: plastic polyamide (UM-PRO) and PVC (UM-Basic)
– Profile housing can be snapped together with side sections
– Basic profile width: 72; 108, and 122 mm
– Individual profile length



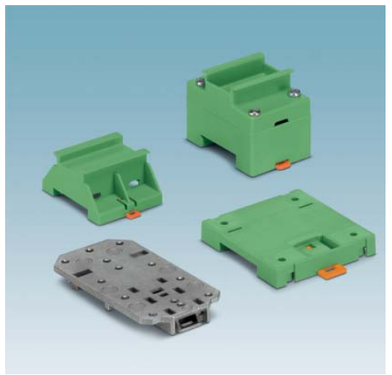
UM profiles housing range
Your advantages at a glance:
– Material: plastic PVC
– Profile housing can be screwed together with side sections
– Basic profile width: 25; 45; 72; 100; 108, and 122 mm
– Individual profile length



UMK housing range
Your advantages at a glance:
– Material: plastic polyamide
– Plug-in elements snap together with no need for tools
– Individual elements 11.25; 22.5, and 45 mm wide

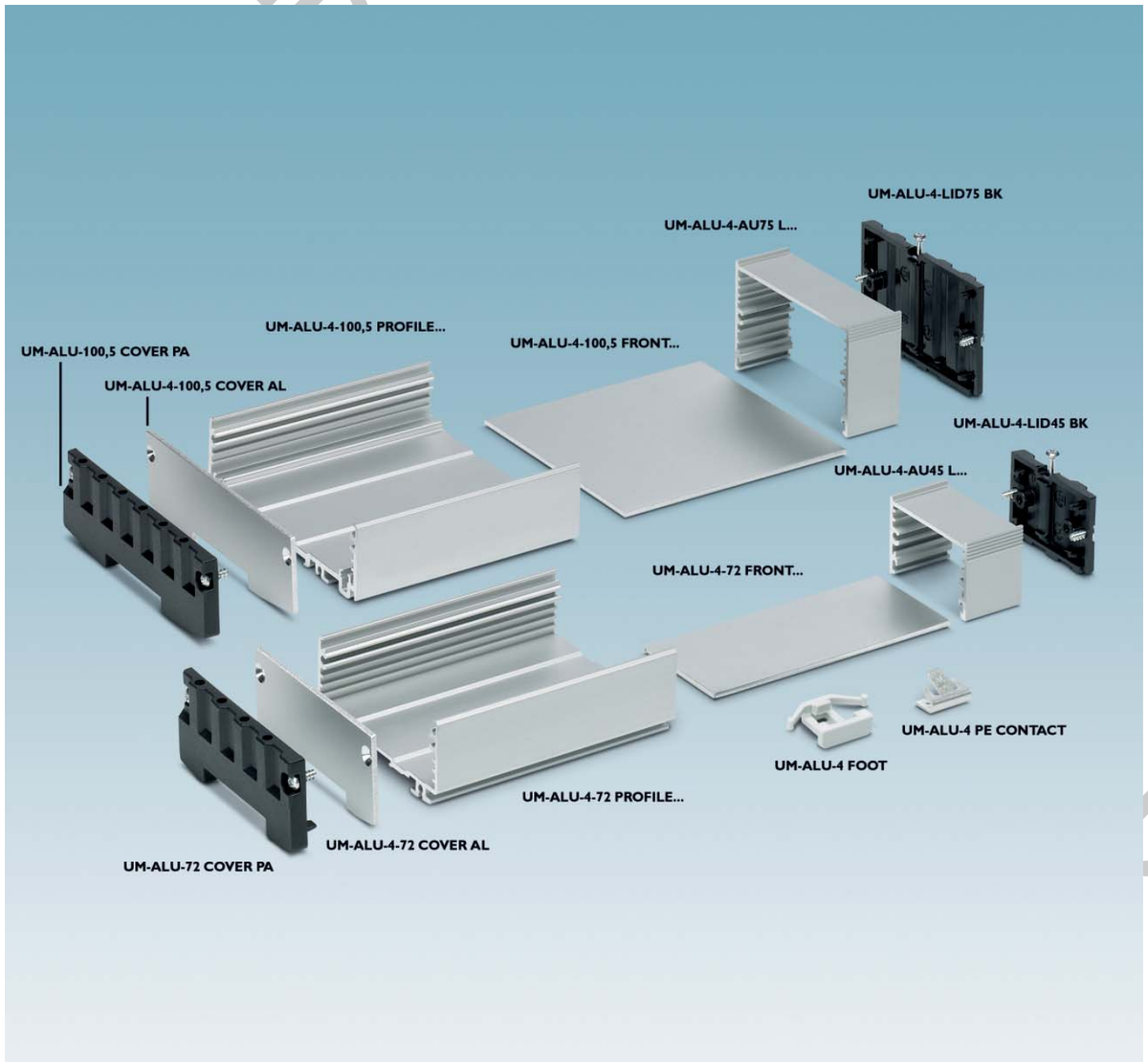


UM plug-in modules housing range
Your advantages at a glance:
– Material: plastic polyamide
– Plug-in elements snap together with no need for tools
– Secure pin connection with metal pins
– Individual elements 16.5 and 35 mm wide



DIN rails – UTA and EM adapters
Your advantages at a glance:
– Material: zinc die-cast and plastic polyamide
– Secure DIN rail mounting for devices without mounting foot

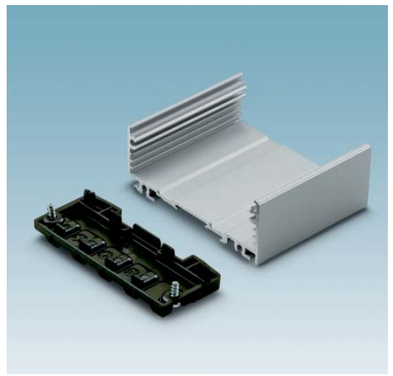
www.dzys.com



The rugged UM-ALU housing series, which is made from anodized aluminum, provides protection for your electronics against mechanical stress, electromagnetic interference, and thermal influences.

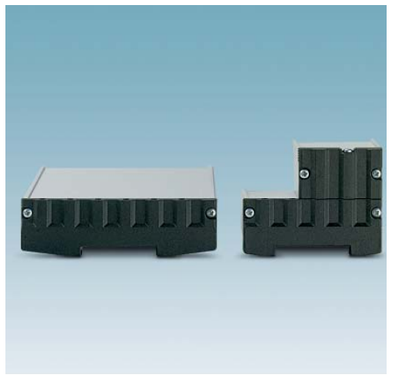
The housings are particularly well-suited for use in temperature ranges from minus 40°C up to 100°C and offer maximum shock protection of IP40 according to DIN EN 60529.

Electronics housing for industrial electronics and semi-industrial applications
Profile racks and adapters



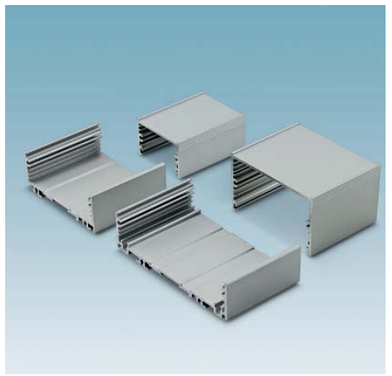
Rugged press-drawn section

Both the basic profiles and the hood profiles are made of an anodized aluminum press-drawn section. In addition to mechanical strength, the material's outstanding properties also include an extremely high level of heat resistance and shielding against disruptive radiation and noise emission.



Variability in shape

A myriad of housing combinations can be formed by combining a basic profile with one of the two hood profiles, which can be flexibly positioned. The available or customer-specific lengths ensure professional and tailor-made electronic housing.



Unrestricted assembly

Multiple PCB levels in the basic and hood profiles provide electronics engineers with the required flexibility for positioning various components or modules.



PE contacting

An optional PE contact can also be provided on the basic profile. The press-in method penetrates the anodized layer and provides a conductive connection between the housing and the DIN rail. Contacting is carried out via standard cable lugs for flat plugs according to DIN 46244-A6.3



DIN rail mounting

The freely-positionable foot element is used for fixing to the DIN rail. The housing is reliably secured, as usual, by swinging it into place and latching. Best of all - no tools are needed for removal and it can be carried out effectively “blind” - simply gently push the housing vertically in respect to the DIN rail and tilt it out. Depending on the application, several foot elements can be mounted and used per housing.



Individuality from the works

In addition to the products which can be ordered from the catalog, we offer an extensive range of additional services from special profile lengths through additional mechanical processing and printing, and even membrane keypads.

www.DZYS.COM

UM-ALU 4 aluminum profile housing

Notes:

For **SF-TX-SET** (Order No. 1212539) and
SF-M-Set (Order No. 1212543) screwdriver set, see
www.phoenixcontact.net/products



Aluminum basic profile
Width: 72 mm



Aluminum basic profile
Width: 100.5 mm

Description	Ordering data			Ordering data		
	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Basic profile, one-piece						
Length 42.5 mm	**UM-ALU 4-72 PROFILE 42,5**	**2200917**	1	**UM-ALU 4-100,5 PROFILE 42,5**	**2200935**	1
Length 60 mm	**UM-ALU 4-72 PROFILE 60**	**2200918**	1	**UM-ALU 4-100,5 PROFILE 60**	**2200936**	1
Length 95 mm	**UM-ALU 4-72 PROFILE 95**	**2200919**	1	**UM-ALU 4-100,5 PROFILE 95**	**2200937**	1
Length 130 mm	**UM-ALU 4-72 PROFILE 130**	**2200920**	1	**UM-ALU 4-100,5 PROFILE 130**	**2200938**	1
Length 165 mm	**UM-ALU 4-72 PROFILE 165**	**2200921**	1	**UM-ALU 4-100,5 PROFILE 165**	**2200939**	1
Length 200 mm	**UM-ALU 4-72 PROFILE 200**	**2200922**	1	**UM-ALU 4-100,5 PROFILE 200**	**2200940**	1
Length 235 mm	**UM-ALU 4-72 PROFILE 235**	**2200923**	1	**UM-ALU 4-100,5 PROFILE 235**	**2200941**	1
Length 990 mm	**UM-ALU 4-72 PROFILE 990**	**2200924**	1	**UM-ALU 4-100,5 PROFILE 990**	**2200942**	1
Basic profile front plate						
Length 42.5 mm	**UM-ALU 4-72 FRONT 42,5**	**2200925**	1	**UM-ALU 4-100,5 FRONT 42,5**	**2200943**	1
Length 60 mm	**UM-ALU 4-72 FRONT 60**	**2200926**	1	**UM-ALU 4-100,5 FRONT 60**	**2200944**	1
Length 95 mm	**UM-ALU 4-72 FRONT 95**	**2200927**	1	**UM-ALU 4-100,5 FRONT 95**	**2200945**	1
Length 130 mm	**UM-ALU 4-72 FRONT 130**	**2200928**	1	**UM-ALU 4-100,5 FRONT 130**	**2200946**	1
Length 165 mm	**UM-ALU 4-72 FRONT 165**	**2200929**	1	**UM-ALU 4-100,5 FRONT 165**	**2200947**	1
Length 200 mm	**UM-ALU 4-72 FRONT 200**	**2200930**	1	**UM-ALU 4-100,5 FRONT 200**	**2200948**	1
Length 235 mm	**UM-ALU 4-72 FRONT 235**	**2200931**	1	**UM-ALU 4-100,5 FRONT 235**	**2200949**	1
Length 990 mm	**UM-ALU 4-72 FRONT 990**	**2200932**	1	**UM-ALU 4-100,5 FRONT 990**	**2200950**	1
Side plate set, including snap-on foot with screws for basic profile, anodized aluminum	**UM-ALU 4-72 COVER AL**	**2200933**	1	**UM-ALU 4-100,5 COVER AL**	**2200951**	1
Profile cap set, including snap-on foot with screws for polyamide basic profile, black	**UM-ALU 4-72 COVER PA BK**	**2200934**	1	**UM-ALU 4-100,5 COVER PA BK**	**2200952**	1
Module cap set, including mounting screws, polyamide, black, 75 mm	**UM-ALU 4 LID75 PA BK**	**2200972**	1	**UM-ALU 4 LID75 PA BK**	**2200972**	1
	Accessories			**Accessories**		
Grounding clamp for making contact with DIN rail	**UM-ALU 4 PE CONTACT**	**2200973**	5	**UM-ALU 4 PE CONTACT**	**2200973**	5
Snap-in element for DIN rail including screw	**UM-ALU 4 FOOT**	**2200974**	5	**UM-ALU 4 FOOT**	**2200974**	5

Electronics housing for industrial electronics and semi-industrial applications

Profile racks and adapters

UM-ALU 4 aluminum profile housing



Aluminum hood profile, width: 45 mm

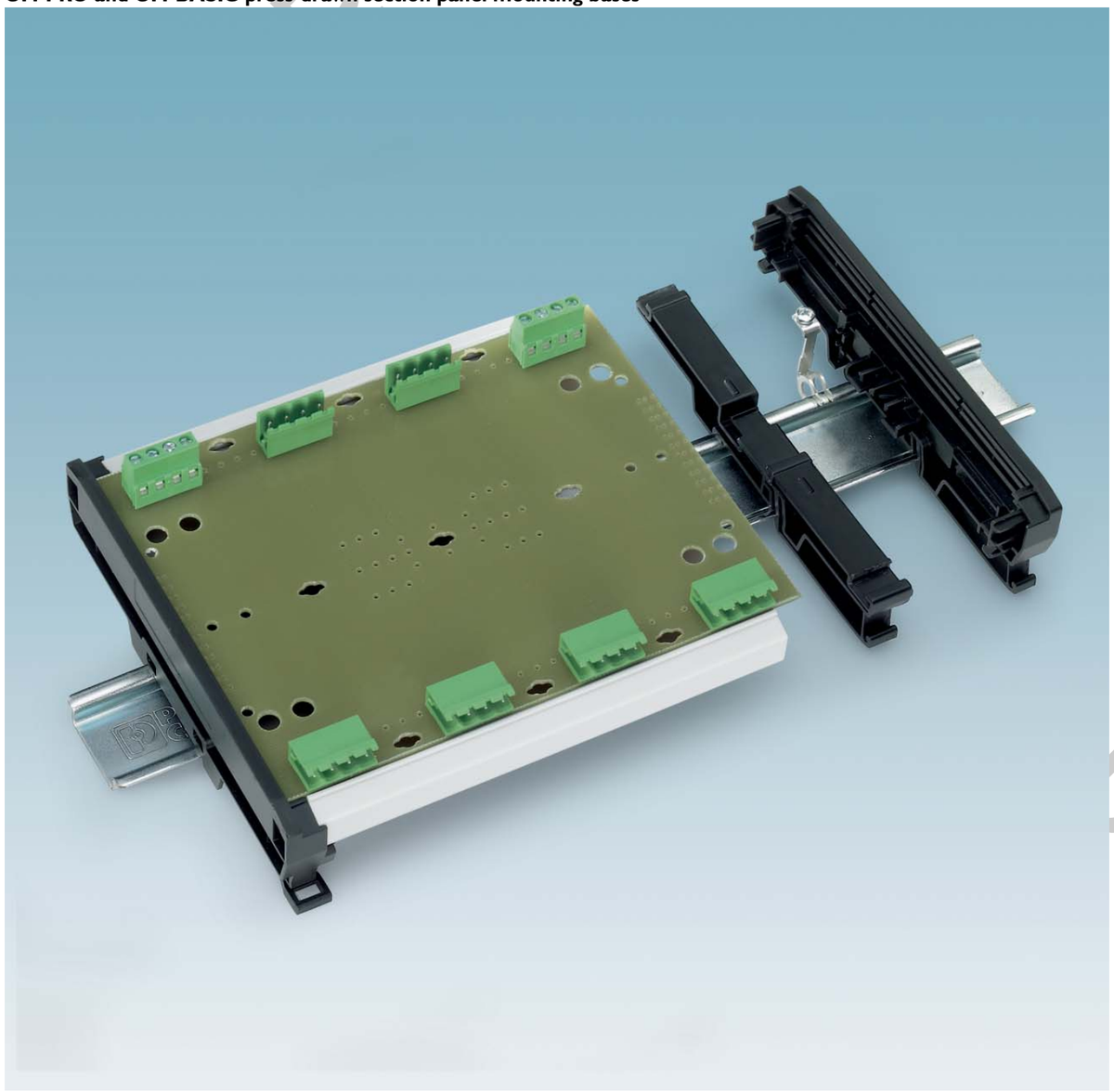


Aluminum hood profile, width: 75 mm

Description	Ordering data			Ordering data		
	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Module profile one-piece (U-shape), anodized aluminum, width 45 mm, for mounting on black profile cap set (COVER PA)						
Length 25 mm	**UM-ALU 4 AU45 L25**	**2200953**	1			
Length 42.5 mm	**UM-ALU 4 AU45 L42,5**	**2200954**	1			
Length 60 mm	**UM-ALU 4 AU45 L60**	**2200955**	1			
Length 95 mm	**UM-ALU 4 AU45 L95**	**2200956**	1			
Length 130 mm	**UM-ALU 4 AU45 L130**	**2200957**	1			
Length 165 mm	**UM-ALU 4 AU45 L165**	**2200958**	1			
Length 200 mm	**UM-ALU 4 AU45 L200**	**2200959**	1			
Length 235 mm	**UM-ALU 4 AU45 L235**	**2200960**	1			
Module profile, one-piece (U-shape), anodized aluminum, width 75 mm						
Length 25 mm				**UM-ALU 4 AU75 L25**	**2200962**	1
Length 42.5 mm				**UM-ALU 4 AU75 L42,5**	**2200963**	1
Length 60 mm				**UM-ALU 4 AU75 L60**	**2200964**	1
Length 95 mm				**UM-ALU 4 AU75 L95**	**2200965**	1
Length 130 mm				**UM-ALU 4 AU75 L130**	**2200966**	1
Length 165 mm				**UM-ALU 4 AU75 L165**	**2200967**	1
Length 200 mm				**UM-ALU 4 AU75 L200**	**2200968**	1
Length 235 mm				**UM-ALU 4 AU75 L235**	**2200969**	1
Length 990 mm				**UM-ALU 4 AU75 L990**	**2200970**	1
Module cap set, including mounting screws, polyamide, black, 45 mm	**UM-ALU 4 LID45 PA BK**	**2200971**	1			
Module cap set, including mounting screws, polyamide, black, 75 mm	**UM-ALU 4 LID75 PA BK**	**2200972**	1	**UM-ALU 4 LID75 PA BK**	**2200972**	1
	Accessories			**Accessories**		
Grounding clamp for making contact with DIN rail	**UM-ALU 4 PE CONTACT**	**2200973**	5	**UM-ALU 4 PE CONTACT**	**2200973**	5
Snap-in element for DIN rail including screw	**UM-ALU 4 FOOT**	**2200974**	5	**UM-ALU 4 FOOT**	**2200974**	5

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UM-PRO and UM-BASIC press-drawn section panel mounting bases



UM-PRO and UM-BASIC press-drawn section housing, available in three versions (72/108/122), combines short assembly times and maximum flexibility when choosing the connection technology. Thanks to the plastic polyamide and special profile geometry, UM-PRO is suitable for operating temperatures of up to 100°C and higher mechanical loads.

Made from halogen-free high-temperature plastic, UM-PRO profile housing meets the requirements for UL device approval and marketing on the US market.

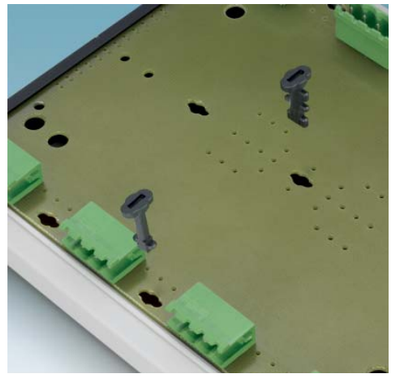
The low-profile design supports the assembly of flat electronic modules and their mounting on standard DIN rails or directly on the panel. The top PCB can have components assembled up to the edge and fixed by means of a quick-action mechanism. Other customer benefits include further options, such as the free positioning of covering hoods or the selectable BUS option for connecting modules together.

Electronics housing for industrial electronics and semi-industrial applications
Profile racks and adapters



Fast housing assembly: plugging instead of screwing

The fact that profile pieces can be snapped quickly and securely in place using UM-PRO...COVER side parts helps mitigate increasing cost pressures during the final device assembly stages.



Integration of various connection methods

Since the top PCB fits flush against the side of the profile, it can have components assembled up to the edge. This PCB can also be secured with the UM-PRO PCB S(C)-LOCK locking element. The connectors remain freely accessible for wiring by the end customer.



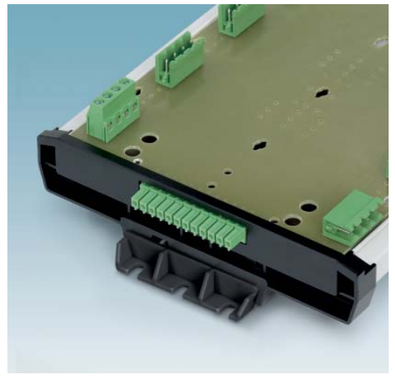
Integrated PE contact

The UM-PRO PE CONTACT potential ground contact, which can be integrated on either side, establishes an electrical connection between the inserted PCB and the DIN rail. This eliminates the need for additional PE terminal blocks and extensive cabling work.



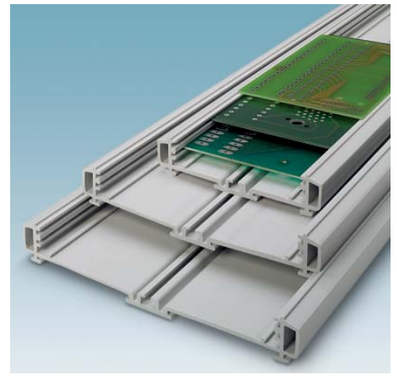
Flexible positioning of covering hoods

The ability to position the covering hoods as required means that sensitive areas on the board can be protected independently. The UM-PRO LID... snap-in lids are easy to mount and remove using just a screwdriver. It is easy to combine connection technologies with a variety of space requirements.



BUS cross contacting of housing

The integrated design of the standard MINI COMBICON connector plugs at the lowest PCB level supports cost-effective device networking.



Variability in assembly

Three guides in the profile enable PCB arrangements on different levels and combinations with a front cover, for example.

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UM-PRO and UM-BASIC press-drawn section panel mounting base



Main properties and benefits

– Plug-in assembly reduces assembly time and thus saves costs
– The 72/108 and 122 mm widths provide compatible high-end alternatives to popular UM profiles
– Temperature range up to 100°C extends the possible fields of application (UM-PRO)
– Well-designed profile geometry increases the form stability
– 3 profile guideways support various PCB configurations
– Mounting close to the edge provides wiring advantages
– Freely positionable rear covering hoods offer flexibility
– PE contacts that can be fitted on both sides ensure safety
– Device communication can be extended by BUS cross contacting
– Labeling area for standard SK strips or marking foil TML (max. height 6 mm)
– Additional labeling of PCB with Phoenix module marker carrier PMB (bore hole diameter 4 mm)
– Additional foot elements increase mechanical stability

Housing dimensions can be found in the Download Center at: www.phoenixcontact.net/products.

Notes:

More information about the housing:
UM-PRO profile made from PA-GF HT, inflammability class V0 (UL 94)
UM-BASIC profile made from PVC, inflammability class V0 (UL 94)
UM-PRO COVER and UM-PRO LID lateral elements made from polyamide PA, inflammability class V0 (UL 94)U-shaped profile covers made from PC, inflammability class V0 (UL 94)

[1]) Please indicate the desired length in [cm].



Press-drawn section, 72 mm wide



Press-drawn section, 108 mm wide

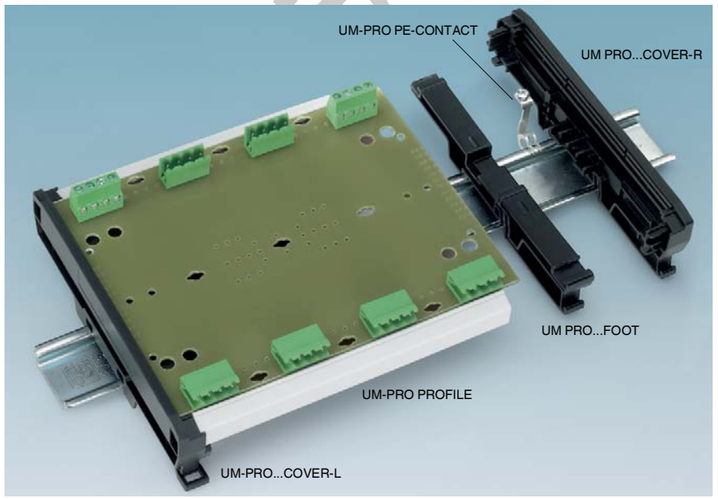


Press-drawn section, 122 mm wide

Description	Grid [mm]	No. of pos.	Width [mm]	Type	Order No.	Pcs. / Pkt.
Press-drawn section cut to customer-specific length, color: light gray (similar to RAL 7035) Specify length in [cm] according to order key				**UM-PRO PROFILE**	**2200148**	1
				UM-BASIC PROFILE	**2200149**	1
Lateral elements with mounting foot for NS35 DIN rails, with groove for accommodating PE contact metal, can be inserted in UM-PRO/UM-BASIC profiles, color: black (similar to RAL 9005)						
Version: left, width: 72 mm				**UM-PRO 72 COVER-L BK**	**2200151**	10
Version: left, width: 108 mm						
Version: left, width: 122 mm						
Version: right, width: 72 mm				**UM-PRO 72 COVER-R BK**	**2200152**	10
Version: right, width: 108 mm						
Version: right, width: 122 mm						
U-shaped profile cover, low version, high-temperature-resistant PC material, 73 mm wide (internal dimensions: 69 mm)[1])				**UM-PRO A/U N 73 CM**	**2200310**	1
U-shaped profile cover, high version, high-temperature-resistant PC material, 73 mm wide (internal dimensions: 69 mm). Please observe the order key.				**UM-PRO A/U 73 CM**	**2200311**	1
U-shaped profile cover, high-temperature-resistant PC material, 92 mm wide (internal dimensions: 88 mm)				**UM-PRO A/U 92 CM**	**2200312**	1
Latching cover black, for lateral sealing of profile covers (2 units are required for each hood) for:						
UM-PRO A/U N 73 CM				**UM-PRO LID-73N BK**	**2200174**	10
UM-PRO A/U 73 CM				**UM-PRO LID-73 BK**	**2200173**	10
UM-PRO A/U 92 CM				**UM-PRO LID-92 BK**	**2200172**	10
Accessories						
Foot element for DIN rails, for mounting under press-drawn section Width: 72 mm Width: 108 mm Width: 122 mm				**UM-PRO 72 FOOT BK**	**2200153**	10
PE contact metal for snapping into lateral elements, includes mounting screw (head diameter 6 mm)						
Version for top PCB level				**UM-PRO PE CONTACT L1**	**2200161**	20
Version for middle PCB level				**UM-PRO PE CONTACT L2**	**2200162**	20
Version for bottom PCB level				**UM-PRO PE CONTACT L3**	**2200163**	20
Add-on element for fixing PCBs						
Version for top PCB, lateral, black				**UM-PRO PCB S-LOCK BK**	**2200168**	100
Version for top PCB, central, black				**UM-PRO PCB C-LOCK L1 BK**	**2200164**	50
Version for middle PCB, central, black				**UM-PRO PCB C-LOCK L2 BK**	**2200165**	50
Version for bottom PCB, central, black				**UM-PRO PCB C-LOCK L3 BK**	**2200166**	50
Mounting flange, for direct wall mounting. Color: black				**UM-PRO MOUNT BK**	**2200171**	10
Screwdriver				**SZF 0-0,4X2,5**	**1204504**	10

Type	Order No.	Pcs. / Pkt.
UM-PRO PROFILE	**2200148**	1
UM-BASIC PROFILE	**2200149**	1
UM-PRO 108 COVER-L BK	**2200155**	10
UM-PRO 108 COVER-R BK	**2200156**	10
UM-PRO A/U N 73 CM	**2200310**	1
UM-PRO A/U 73 CM	**2200311**	1
UM-PRO A/U 92 CM	**2200312**	1
UM-PRO LID-73N BK	**2200174**	10
UM-PRO LID-73 BK	**2200173**	10
UM-PRO LID-92 BK	**2200172**	10
UM-PRO 108 FOOT BK	**2200157**	10
UM-PRO PE CONTACT L1	**2200161**	20
UM-PRO PE CONTACT L2	**2200162**	20
UM-PRO PE CONTACT L3	**2200163**	20
UM-PRO PCB S-LOCK BK	**2200168**	100
UM-PRO PCB C-LOCK L1 BK	**2200164**	50
UM-PRO PCB C-LOCK L2 BK	**2200165**	50
UM-PRO PCB C-LOCK L3 BK	**2200166**	50
UM-PRO MOUNT BK	**2200171**	10
SZF 0-0,4X2,5	**1204504**	10

Type	Order No.	Pcs. / Pkt.
UM-PRO PROFILE	**2200148**	1
UM-BASIC PROFILE	**2200149**	1
UM-PRO 122 COVER-L BK	**2200158**	10
UM-PRO 122 COVER-R BK	**2200159**	10
UM-PRO A/U N 73 CM	**2200310**	1
UM-PRO A/U 73 CM	**2200311**	1
UM-PRO A/U 92 CM	**2200312**	1
UM-PRO LID-73N BK	**2200174**	10
UM-PRO LID-73 BK	**2200173**	10
UM-PRO LID-92 BK	**2200172**	10
UM-PRO 122 FOOT BK	**2200160**	10
UM-PRO PE CONTACT L1	**2200161**	20
UM-PRO PE CONTACT L2	**2200162**	20
UM-PRO PE CONTACT L3	**2200163**	20
UM-PRO PCB S-LOCK BK	**2200168**	100
UM-PRO PCB C-LOCK L1 BK	**2200164**	50
UM-PRO PCB C-LOCK L2 BK	**2200165**	50
UM-PRO PCB C-LOCK L3 BK	**2200166**	50
UM-PRO MOUNT BK	**2200171**	10
SZF 0-0,4X2,5	**1204504**	10



Order key for UM-PRO and UM-BASIC

Pcs.	Order No.		Profile width		Length [cm]		Color
1	22 00 14 8	/	UM-PRO UM-PRO 72≙ 72 mm UM-PRO 108 ≙ 108 mm UM-PRO 122 ≙ 122 mm	/	22,5 3.0 cm, minimum 100.0 cm, maximum	/	GY7035 GY7035 ≙ Light gray

General note:

The area available for assembly is reduced by 3.1 mm at both edges of the press-drawn sections.

Ordering information:

In order to determine the profile length, 1.6 cm must be subtracted from the PCB length.

The overall length of the module, i.e., including the lateral elements, is equal to the PCB length plus 0.4 cm.

The maximum length of a profile cover is the PCB length minus 1.9 cm.
When using the UM-PRO PE-CONTACT, the maximum length is reduced by a further 0.91 cm per contact.

Ordering example:

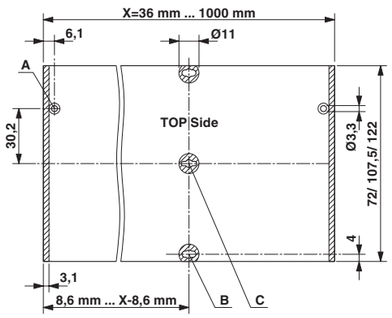
For a PCB of 160 x 107.5 x 1.5 mm, the profile length is:
2200148/UM-PRO 108/14,4/GY7035

Order key for profile covers

Pcs.	Order No.		Width of cover [mm]		Length [cm]
1	22 00 31 1	/	AU 73 AU 73 ≙ 73 mm	/	8,4 3.0 cm, minimum 100.0 cm, maximum

UM-PRO and UM-BASIC PCBs

A = Drill hole for optional PE contact; B = For optional S-LOCK PCB lock in top level;
C = For optional C-LOCK PCB lock (all levels)



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UM press-drawn section panel mounting bases

Individual adaptation of UM press-drawn sections to the dimensions of PCBs means that a host of electronic circuits can be made DIN-rail mountable.

UM profile housing consists of the following components: UM... press-drawn section, UM...SE lateral elements in various widths and heights, UM...FE foot elements, and UM profile covers for UM 100, UM 108, and UM 122.

Depending on the desired module length and the space required, the press-drawn section can be cut to size individually and combined with lateral and foot elements to form a module.

Six graded profile versions are available for PCB widths of 22 mm, 42 mm, 72 mm, 100 mm, 107.5 mm, and 122 mm.

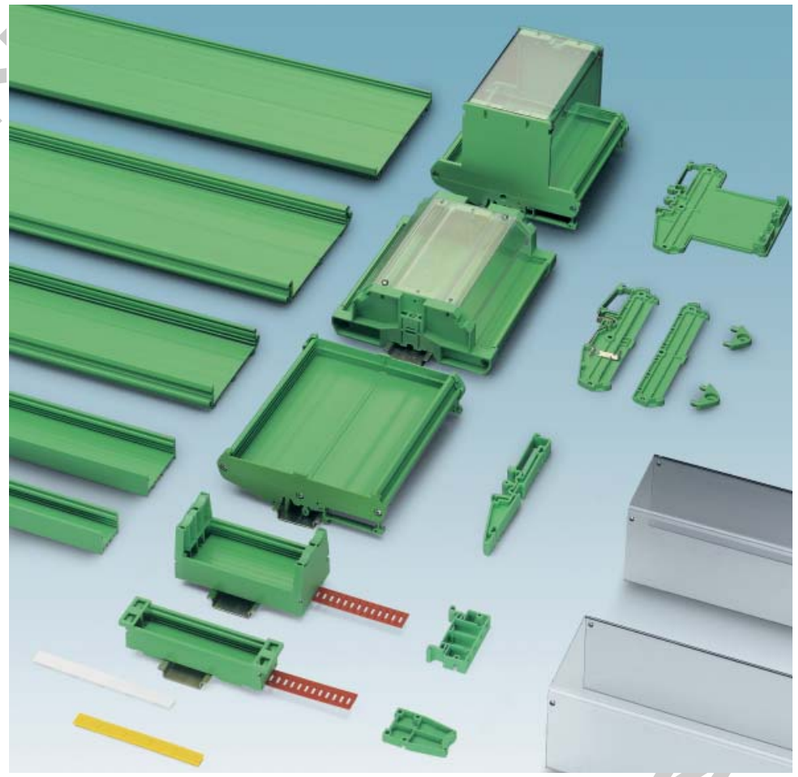
The modules are mounted on commercially available ⊐⊏ or ⊏⊐ DIN rails (UM 25 and UM 45 only on ⊐⊏ DIN rails) or directly on the mounting plate with the UMK-BF mounting flange.

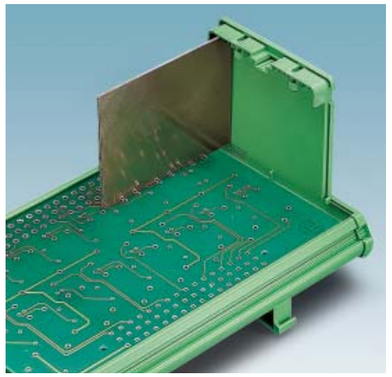
Marking grooves ensure clear identification of the module with standard marking materials (ZB 5).

The standard color of press-drawn sections is green.

Additional advantages of UM press-drawn sections:

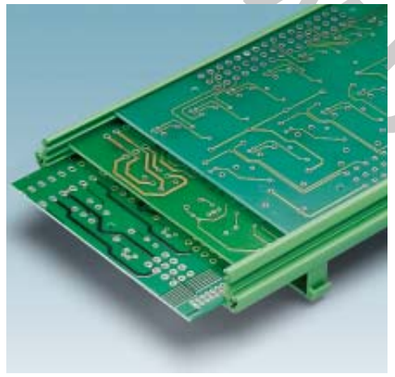
– Inexpensive as a result of reducing the number of separate housing parts
– Flexible size and shape
– High degree of mechanical stability by screwing the lateral elements to the profile
– Profile cover can provide protection for the electronics in UM 100, UM 108, and UM 122 versions





More capacity

UM 100 and 108 press-drawn sections with cover for optional extension of vertically-mounted PCBs.



Free positioning of PCBs

PCB guides on up to three levels support compact electronic circuits, e.g., using SMD technology.

Electronics housing for industrial electronics and semi-industrial applications
Profile racks and adapters



Custom length

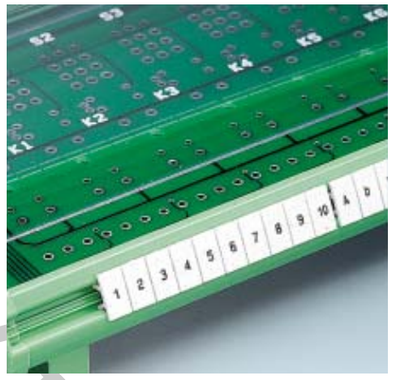
The profiles can be cut without rigid pitch divisions to within a millimeter, so that the housing profile can be tailored to fit the electronics.



Potential earth contact

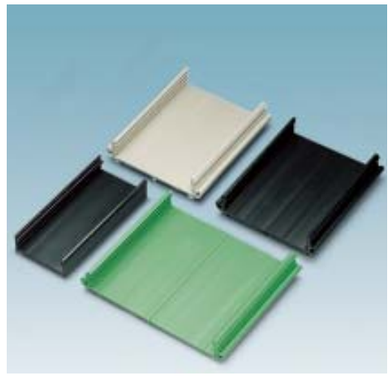
The PE contact integrated into the lateral element connects the inserted PCB to the DIN rail. What this means for you:

– Excellent EMC properties
– No need for an additional PE terminal block when shielded sensor cables are used



Clear marking

The marker groove provided on both sides means that the profile can be marked flexibly and individually with ZB 5 marking material.



Choice of shape and color

In addition to the standard green color, UM 45 and UM 108 press-drawn sections are available in black, UM 72 in black, light gray, and beige, and UM 122 in light gray and black.

Accessories

Optional transparent UM...A/U profile covers are available for press-drawn section panel mounting bases in design widths UM 100, UM 108, and UM 122.

Different UM...SE... lateral elements are used, depending on the cover selected. These elements can be supplied with or without a foot and with optional integrated potential earth contact. Guide slots are integrated in the tall lateral elements. This means that additional PCBs can be arranged vertically on the base PCB.

Transparent UM...A/U U-profile covers come in various lengths, depending on the length of the profile.

Using the UMK-BF mounting flange, modules can be mounted directly on the wall. Extra UM...-FE foot elements increase the overall stability of longer modules.

Degree of protection

By using optional UM...-A/U covers, shock and contamination-proof electronic modules can be created. The degree of protection of housing and terminal blocks protected in this way corresponds to IP20 (according to IEC 60529/EN 60529).

Materials

Housing and transparent covers are made from extruded PVC (UL 94 - V0). This material has an excellent price/performance ratio. The maximum permissible operating temperature is 50°C. Covers ending in HT are made from high-temperature-resistant thermoplastic PC (UL 94-V0).

Conductor connections

A host of possibilities for external conductor connection are available thanks to the wide range of electronic PCB terminal blocks, screw, COMBICON, spade, and spring-cage connections.

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UM profile panel mounting base

The UM 25 and UM 45 compact press-drawn sections offer a variety of options for installing electronic modules in situations where there is not much installation space available.

The slim UM 25 and UM 45 modules are mounted transversely in relation to the DIN rail.

A special UM 25/45-FEO 200 foot element is used for this purpose. This arrangement is suitable for module lengths of 8 - 20 cm. The positive latch in the foot element can be prepared for the required module length.

An additional side element is available for the UM 45 module. This enables the module to be mounted longitudinally on the NS 35 DIN rail in any length.

The press-drawn sections are manufactured to the required length and are available in lengths up to 100 cm.

Further advantages:

– Quick assembly
– The UMK-BF mounting flange enables the modules to be mounted directly on the wall
– UM ...-SES side element offers options for labeling with Phoenix Contact SS-ZB marking material (see also catalog 5)
– Cable fixing through the UM ...-SEK side element (fixed with cable ties, not supplied as standard).

Housing dimensions can be found in the Download Center at: www.phoenixcontact.net/products.

Notes:
Information concerning the housing:
PVC profile, inflammability class V0 (UL 94)
Polyamide PA side elements, inflammability class V0 (UL 94)
1) To define the profile length and width, please observe the order key.



For 25 mm wide PCBs



For 45 mm wide PCBs

Technical data

Type of housing	
Electronic housings	PVC / V0

Ordering data

Description	Type	Order No.	Pcs. / Pkt.
Drawn section			
Fixed length 100 cm	**UM 25-PROFIL 100CM**	**2915795**	1
Cut to length according to customer specifications[1])	**UM -PROFIL**	**2952020**	1
Side supporting element, must be be mounted at right angles to the NS 35 to support the housing			
Side element			
With marker groove, 11 mm wide, labeling with SS-ZB.	**UM 25-SES**	**2959285**	10
Without marker groove, 6 mm wide			
Side element, with cable tie, 6 mm wide, fixed using cable ties, not included in the delivery			
	UM 25-SEK	**2959298**	10
Side element, with foot, 10 mm wide, mounted longitudinally to the NS 35, labeling with SS-ZB			
Without PCB guide in side element			
Foot element, is inserted in the profile, limit stop with screw, mounted at right angles to the NS 35			
	UM 25/45-FEO 200	**2959434**	10

Accessories

Marker tags, 5-section, unprinted, labeling with X-PEN, M-PEN, plotter or BKMT 20 x 8 label white	**SS-ZB WH**	**5031171**	50
yellow	**SS-ZB YE**	**5031650**	50
Mounting flange, for mounting directly on the wall	**UMK-BF**	**2976077**	50

Technical data

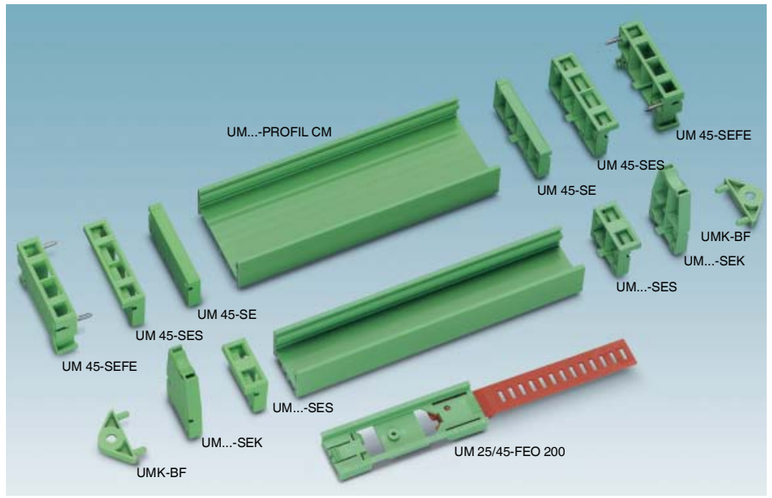
PVC / V0	

Ordering data

Type	Order No.	Pcs. / Pkt.
UM 45-PROFIL 100CM	**2914550**	1
UM -PROFIL	**2952020**	1
UM 45-SEAS	**2907554**	10
UM 45-SES	**2959308**	10
UM 45-SE	**2906131**	10
UM 45-SEK	**2959311**	10
UM 45-SEFE	**2907826**	10
UM 45-SEFE O.N.	**2959793**	10
UM 25/45-FEO 200	**2959434**	10

Accessories

SS-ZB WH	**5031171**	50
SS-ZB YE	**5031650**	50
UMK-BF	**2976077**	50



Assembly of the UM 25 and UM 45 profiles

Order key for UM profiles:

Quantity	Order No.	Profile width	Length [cm]	Color
1	29 52 02 0	/ UM 108	/ 22,5	/ GN6021
		UM 25 ≙ 25 mm UM 45 ≙ 45 mm UM 72 ≙ 72 mm UM 100 ≙ 100 mm UM 108 ≙ 108 mm UM 122 ≙ 122 mm	Min. 3.0 cm Max. 100.0 cm	GN6021 ≙ Pale green BK9005 ≙ Jet black GY7032 ≙ Pebble gray GY7035 ≙ Light gray

General note:

The area that can be equipped is reduced once by 3 mm at the edges of the profiles.

Ordering notes:

In order to determine the profile length, 0.3 cm must be subtracted from the PCB length.

The exception is when a side element with the ending O.N. is used; here the profile length is the same as that of the PCB.

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UM profile panel mounting base

The UM 72, UM 100, and UM 108 press-drawn sections offer three levels for PCBs for flexible positioning or SMD technology (for example).

Very small UM ...-LG 10 modules, measuring 10 x 90 mm or 10 x 125 mm, can be created by combining two side elements. The press-drawn sections are manufactured to the required length and are available in lengths up to 100 cm.

Optional UM 108 A/U... transparent covers in two heights and with widths of 60 and 73 mm are available for the UM 100 and UM 108. Guide slots are integrated into the tall side elements. This means that additional printed circuit boards can be arranged vertically on the base printed circuit board.

Further advantages:

– Fast installation on conventional NS 35 or NS 32 DIN rails
– The modules can be marked with Phoenix marking material in the label grooves provided
– Side elements with potential-earth contact from the PCB to the DIN rail (EMC)
– A host of options for external conductor connection, see chapter COMBICON control

Housing dimensions can be found in the Download Center at: www.phoenixcontact.net/products.

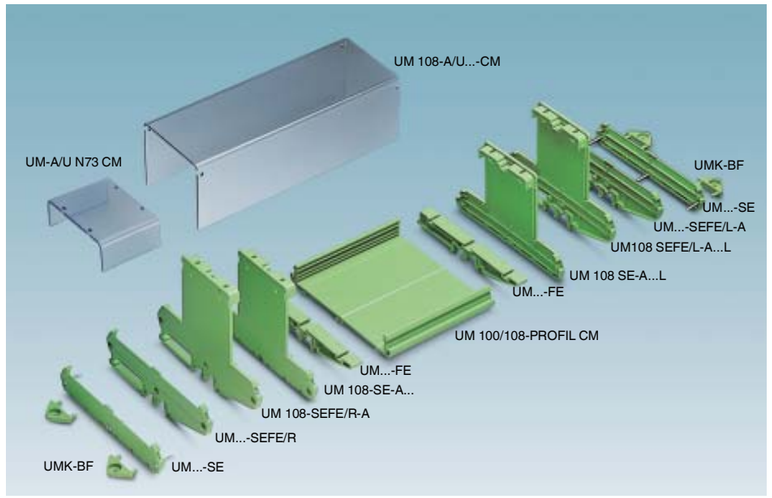
Notes:
Information concerning the housing:
PVC profile, inflammability class V0 (UL 94)
Polyamide PA side elements, inflammability class V0 (UL 94)
U-shaped PVC profile covers, inflammability class HB (UL 94)
U-shaped PC profile covers, high-temperature resistant, inflammability class V0 (UL 94)
1) To define the profile length and width, please observe the order key.
2) Please indicate the desired length in [cm].



For 72 mm wide PCBs



For 107.5 mm wide PCBs



Assembly of the UM 72 and UM 100/108 press-drawn sections

Technical data

Type of housing	
Electronic housings	PVC / V0

Ordering data

Description	Type	Order No.	Pcs. / Pkt.
Drawn section Fixed length 100 cm	**UM 72-PROFIL 100CM**	**2907583**	1
Cut to length according to customer specifications[1])	**UM -PROFIL**	**2952020**	1
Side element with foot, 5 mm wide, right hand side, for mounting NS 32 or NS 35...	**UM 72-SEFE/R**	**2959353**	10
Side element with foot, 5 mm wide, left hand side			
For mounting on ⊏ or ⌐,	**UM 72-SEFE/L**	**2959340**	10
With PE contact to the DIN rail	**UM 72-SEPEF/L**	**2906487**	10
Side element, 5 mm wide	**UM 72-SE**	**2959337**	10
Foot element, for mounting on NS 35 or NS 32, under the UM 72 or UM 108 profile housing	**UM 72-FE**	**2959382**	10

Accessories

Side element, with foot, tall version, right hand, For 60 mm wide U-shaped cover			
for 73 mm wide U-shaped cover			
Side element, with foot, flat version, right hand for 73 mm wide U-shaped cover			
Side element, with foot, flat version, left hand for 73 mm wide U-shaped cover			
With PE contact to the DIN rail			
Side element, flat version, without foot green			
Side element, tall version, without foot For 60 mm wide U-shaped cover			
for 73 mm wide U-shaped cover			
Side element, with foot, tall version, left hand, For 60 mm wide U-shaped cover			
With PE contact to the DIN rail			
for 73 mm wide U-shaped cover			
With PE contact to the DIN rail			
U profile cover, tall version, widths of 60 mm (internal dimension 56 mm) and 73 mm (internal dimension 69 mm) are available. Please note the ordering example and the order key.			
U-shaped cover, flat version, high-temperature resistant PC material, 73 mm wide (internal dimensions 69 mm)[2])			
Mounting flange, for mounting directly on the wall	**UMK-BF**	**2976077**	50
10 mm wide module, consisting of two side elements, PCB dimensions: 8 x 72 or 8 x 107.5 mm			
8	**UM 72-LG 10**	**2959366**	10

Technical data

PVC / V0	

Ordering data

Type	Order No.	Pcs. / Pkt.
UM100-PROFIL 100CM	**2914563**	1
UM108-PROFIL 100CM	**2907525**	1
UM -PROFIL	**2952020**	1
UM108-SEFE/R	**2959683**	10
UM108-SEFE/L	**2959696**	10
UM108-SEPEF/L	**2906490**	10
UM108-SE	**2959476**	10
UM108-FE	**2959463**	10

Accessories

UM108-SEFE/R-A60	**2959706**	10
UM108-SEFE/R-A73	**2959719**	10
UM108 N-SEFE/R-A73	**2709354**	10
UM108 N-SEFE/L-A73	**2709367**	10
UM108 N-SEPEF/L-A73	**2709370**	10
UM108 N-SE-A73	**2709383**	10
UM108-SE-A60	**2959748**	10
UM108-SE-A73	**2959751**	10
UM108-SEFE/L-A60	**2959722**	10
UM108-SEPEF/L-A60	**2906500**	10
UM108-SEFE/L-A73	**2959735**	10
UM108-SEPEF/L-A73	**2906513**	10
UM108-A/U CM	**2854898**	1
UM-A/U N 73 CM	**2706852**	1
UMK-BF	**2976077**	50
UM108-LG 10	**2959780**	10

Order key for UM profile covers

Pcs.	Order No.	Width Cover [mm]		/ Length [cm]
1	28 54 89 8	/ AU73		/ 8,4
		AU60	≙ 60 mm	3.0 cm, minimum
		AU73	≙ 73 mm	100.0 cm, maximum

General information about UM 72, UM 100/108

Use the same housing accessory elements (lateral elements, U-shaped profile covers, etc.) for the UM 100 profile as for the UM 108 profile.

Instead of the foot elements and the lateral elements, two lateral elements with foot can be used. Corresponding screws are supplied as standard with lateral elements.

Ordering example:
For an 87.5 x 107.5 x 1.5 PCB, the profile length is 8.4 cm.

The following parts are required for a module including the cover:

1 x Press-drawn section
Order key 2952020/UM108/8,4/GN6021
1 x UM profile cover
Order key 2854898/U73/8,4
1 x Lateral element with foot, left
Order No. 29 59 73 5
1 x Lateral element with foot, right
Order No. 29 59 71 9

Ordering information:

The PCB area available for assembly is reduced by 2 mm at each edge of the press-drawn sections and on the front of the lateral elements in the tall version.

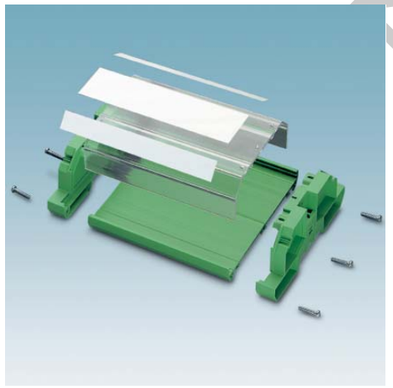
In order to determine the profile length, 0.35 cm must be subtracted from the PCB length.

The overall length of the module, i.e., including the lateral elements, is equal to the profile length plus 0.3 cm per lateral element.

For the UM 108-A/U profile cover, specify the same length as for the UM 100/108-PROFIL... press-drawn section.

A minimum profile length of 3 cm is required to ensure assembly.

UM profile panel mounting base



The UM 122 press-drawn section is particularly suitable for the installation of bulky industrial electronics.

Very small UM 122-LG 13 modules, measuring 13 x 127.5 mm, can be created by snapping on two side elements. The press-drawn section is manufactured to the required length and is available in lengths up to 100 cm.

By using the UM 122-A/U 92 profile cover, shock and dust-proof electronic modules can be created. The cover can be cut to suit your requirements and can be labeled with the AP-ES insert strips using the grooves inside. To prevent the cover from being unintentionally removed, a seal can be integrated

Further advantages:

– Can be snapped onto commercially available NS 35/7,5 and NS 35/15 DIN rails
– A host of options for external conductor connection, see chapter COMBICON control

Housing dimensions can be found in the Download Center at: www.phoenixcontact.net/products.

Notes:
Order information for UM 122
In order to determine the profile length, 0.95 cm must be subtracted from the PCB length. The length of the cover corresponds to the PCB length minus 0.18 cm. The overall length of the module, i.e. including the side elements, corresponds to the profile length plus 1.35 cm per side element. A minimum profile length of 3 cm is required to guarantee mounting.
The printed circuit board area available for components is reduced by 2 mm at the edges of the profiles and on the front of the side elements.
The profile cover must be chosen at 0.77 cm longer than the drawn section.
Information concerning the housing:
PVC profile, inflammability class V0 (UL 94)
Polyamide PA side elements, inflammability class V0 (UL 94)
Profile cover PC, inflammability class V2 (UL 94)
[1]) To define the profile length and width, please observe the order key.



For 122 mm wide PCBs

Technical data

Type of housing	
Electronic housings	PVC / V0

Ordering data

Description	Type	Order No.	Pcs. / Pkt.
Drawn section Fixed length 100 cm Cut to length according to customer specifications[1])	**UM122-PROFIL 100CM** **UM -PROFIL**	**2914576** **2952020**	1 1
Side element with foot, 5 mm wide, right hand side, for mounting NS 32 or NS 35...	**UM122-SEFE/R**	**2908786**	10
Side element with foot, 5 mm wide, left hand side, for mounting on NS 32 or NS 35...	**UM122-SEFE/L**	**2908773**	10
13 mm wide module, consisting of two side elements, PCB dimensions: 11.7 x 122 mm	**UM122-LG 13**	**2908809**	10
Side element, with screw fixture to attach cover UM 122 to NS 35	**UM122-SEMFE-A92**	**2909442**	10
U profile cover, for UM 122, 92 mm wide	**UM122-A/U92**	**2909455**	1
Foot element, for UM 122 profile housing	**UM122-FE**	**2909471**	10

Accessories

Phoenix module marker carrier, for labeling modules and PCBs, for hole diameters 3.9 to 4.1 mm, thickness of the housing wall or PCB: 1.5 to 2.0 mm, lettering field: 29.8 x 8 mm	**PMB**	**1004364**	50
Insert strips, for group marking, for sliding into the cover profile AP 2 and AP 3, cardboard, lettering field: 35 x 500 mm	**AP-ES**	**5022685**	10
Marker pen, not refillable, for manual labeling, line thickness 0.5 mm	**B-STIFT**	**1051993**	10

Electronics housing for industrial electronics and semi-industrial applications
Profile racks and adapters

The UM... profile panel mounting bases are available in the following fixed lengths:

Description	Type	Order No.	Pcs. Pkt.
Design width 25 mm Fixed length 100 cm	**UM 25-PROFIL 100 CM**	**29 15 79 5**	1
Design width 45 mm Fixed length 100 cm	**UM 45-PROFIL 100 CM**	**29 14 55 0**	1
Design width 72 mm Fixed length 100 cm	**UM 72-PROFIL 100 CM**	**29 07 58 3**	1
Design width 100 mm Fixed length 100 cm	**UM 100-PROFIL 100 CM**	**29 14 56 3**	1
Design width 108 mm Fixed length 100 cm	**UM 108-PROFIL 100 CM**	**29 07 52 5**	1
Design width 122 mm Fixed length 100 cm	**UM 122-PROFIL 100 CM**	**29 14 57 6**	1

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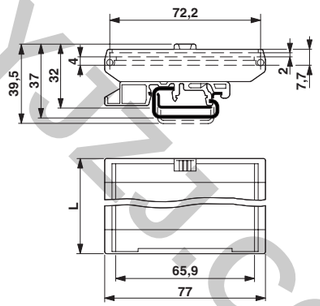
UMK plug-in module panel mounting base

The compact UMK custom circuit modules are used for individually constructing simple adaptation and interconnection functions as well as comprehensive electronic circuits that can be installed on DIN rails. They comprise various single elements with different dimensions and functions.

Depending on the desired module size and the space requirement, various individual elements are linked together into one module. The UMK base elements are available in widths of 11.25 mm, 22.5 mm and 45 mm. Two side elements with a width of 11.25 mm each produce – when engaged – the smallest module of 22.5 x 77 mm. Adding together base elements of various widths results in the particular module dimension required. One or more foot elements are provided depending on the module size.

The advantages are:

– Fast assembly due to the pluggable module principle. The tight engagement of the individual elements ensures that they are securely connected.
– Thanks to the universal foot, the modules snap onto commercially available EN DIN rails
– The mounting flange enables mounting directly on the wall
– The modules can be marked using the marking grooves in the side element as well as with the Phoenix Contact module marker PMB, which snaps into a hole (4 mm Ø) in the PCB.
– For a host of options for external conductor connection, see chapter on COMBICON control.





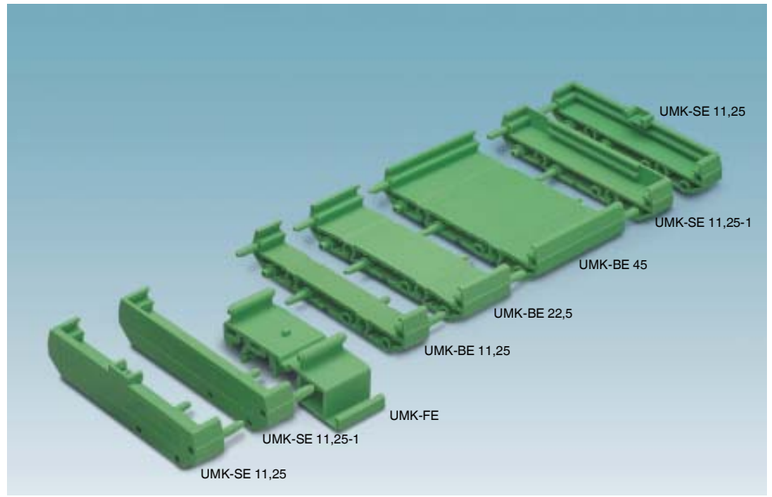
Technical data

Type of housing	
Electronic housings	Polyamide / V2

Ordering data

Description	Type	Order No.	Pcs. / Pkt.
Side element, 11.25 mm wide, with marker groove	**UMK-SE 11,25**	**2970002**	10
Side element, 11.25 mm wide, without marker groove	**UMK-SE 11,25-1**	**2970442**	50
Base element, 11.25 mm wide	**UMK-BE 11,25**	**2971535**	10
Base element, 22.5 mm wide	**UMK-BE 22,5**	**2970028**	10
Base element, 45 mm wide	**UMK-BE 45**	**2970015**	10
Foot element, for mounting on a NS 32 or NS 35..., can be inserted into base and side element	**UMK-FE**	**2970031**	10
Mounting flange, for mounting directly on the wall	**UMK-BF**	**2976077**	50

Electronics housing for industrial electronics and semi-industrial applications
Profile racks and adapters



Assembly of the UMK universal modules

PCB dimensions [mm]	Module width L[mm]	Side element UMK-SE...	Base element UMK-BE 11,25	Base element UMK-BE 22,5	Base element UMK-BE 45	Foot element UMK-FE
20.00 x 72 x 1.5	22.50	2	–	–	–	1
31.25 x 72 x 1.5	33.75	2	1	–	–	1
42.50 x 72 x 1.5	45.00	2	–	1	–	2
53.75 x 72 x 1.5	56.25	2	1	1	–	2
65.00 x 72 x 1.5	67.50	2	–	–	1	2
76.25 x 72 x 1.5	78.75	2	1	–	1	2
87.50 x 72 x 1.5	90.00	2	–	1	1	2
98.75 x 72 x 1.5	101.25	2	1	1	1	2
110.00 x 72 x 1.5	112.50	2	–	–	2	2
121.25 x 72 x 1.5	123.75	2	1	–	2	2
132.50 x 72 x 1.5	135.00	2	–	1	2	2
143.75 x 72 x 1.5	146.25	2	1	1	2	3
155.00 x 72 x 1.5	157.50	2	–	–	3	3
166.25 x 72 x 1.5	168.75	2	1	–	3	3
177.50 x 72 x 1.5	180.00	2	–	1	3	3

Note on printed circuit board assembly:
The area that can be equipped is reduced once by 3 mm at the edges of the base elements and by 1.6 mm at the front of the side elements.

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UM plug-in module panel mounting base

The UM universal modules are suitable for accommodating one printed circuit board for the construction of individual electronic circuits, e.g. programmable controls. They comprise individual elements with various dimensions and functions. By arranging the individual base elements in a row, the printed circuit board surface can be multiplied. Metal pins engage the individual base elements to form a sturdy unit. The various base elements are available with or without ribs to support the printed circuit board. Depending on the module size, one or more base elements can be fitted with a snap foot, which easily engages on EN DIN rails.

The side elements close the aligned base elements on both sides and are available in four designs:
– The UM-SE side element
– The UM-SE-A 60 high side element for 60 mm wide U-shaped covers and
– The UM-SE-A73/N low side element for 73 mm wide U-shaped covers
– The UM-SE-A 73 high side element for 73 mm wide U-shaped covers.

The high lateral elements are available with or without a guide slot for the mechanical fixing of PCBs arranged perpendicular to the base board.
The length of the transparent U-shaped covers is decided on a case-to-case basis. A comprehensive product range is available for the conductor connection. See the COMBICON control chapter.

Notes:
Information concerning the housing:
U-profile cover UM-A/U73... made of PVC/HB (UL 94)
U-profile cover UM-A/U73-HT CM made of PC/V0 (UL 94)
U-profile cover UM-A/U N73 CM made of PC/V0 (UL 94)
1) Please indicate the desired length in [cm].



With ribs for mechanical PCB support

Technical data

Type of housing	
Electronic housings	Polyamide / V0

Ordering data

Description	Type	Order No.	Pcs. / Pkt.
Universal module, individual assembly, consisting of: **Base element** with snap-on foot, for mounting on NS 35... or NS 32 DIN rail.			
With ribs, L = 35 mm	**UM-BEFE 35**	**2955564**	10
Without ribs, L = 35 mm			
Without snap-on foot, with ribs, L = 35 mm	**UM-BE 35**	**2955577**	10
Without ribs, L = 35 mm, without snap-on foot			
With ribs, L = 16.5 m, without snap-on foot	**UM-BE 16,5**	**2956903**	50
Without ribs, L = 16.5 mm, without snap-on foot			
Connection pin, brass, for engaging several base elements to form one unit, 4 units necessary per element	**UM-VS**	**2955580**	50
Side element, for closing both ends of the base element UM-BEFE	**UM-SE**	**2955593**	10
Side element, flat version for 73 mm wide profile cover	**UM-SE-A73/N**	**2962256**	10

Accessories

Side element, tall version			
For 60 mm wide U-shaped cover	**UM-SE-A60**	**2955616**	10
for 73 mm wide U-shaped cover	**UM-SE-A73**	**2955603**	10
Side element, high profile, with guide grooves for vertically arranged printed circuit boards			
For 60 mm wide U-shaped cover	**UM-SE-A60-R**	**2956893**	10
for 73 mm wide U-shaped cover	**UM-SE-A73-R**	**2956741**	10
U profile cover, tall version, PVC. Please note the order key.	**UM-A/U CM**	**2854885**	1
U-shaped cover, tall version, high-temperature resistant PC material[1])	**UM-A/U 73-HT CM**	**2853310**	1
U-shaped cover, flat version, high-temperature resistant PC material, 73 mm wide (internal dimensions 69 mm)[1])	**UM-A/U N 73 CM**	**2706852**	1
Transparent hood, for one base element, UM-BEFE (with 2 UM-SE) snaps on, 60 mm wide, 50 mm high	**UM-H**	**2955441**	10



Without ribs

Technical data

Polyamide / V0	

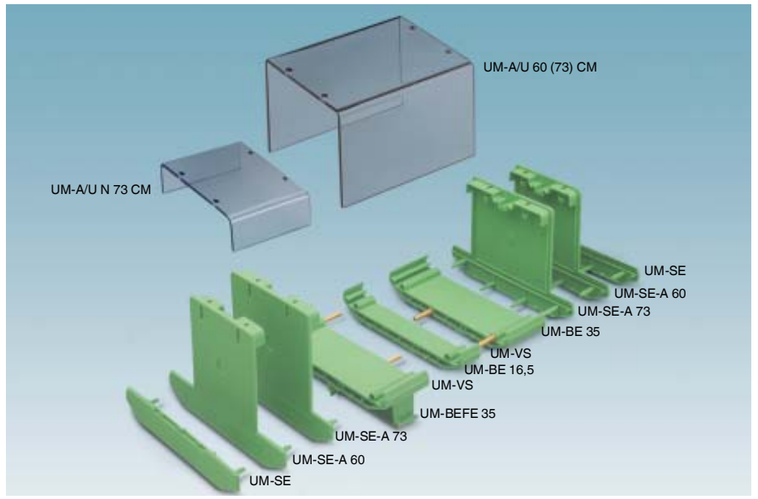
Ordering data

Type	Order No.	Pcs. / Pkt.
UM-BEFE 35-1	**2956660**	10
UM-BE 35-1	**2956657**	10
UM-BE 16,5-1	**2958053**	50
UM-VS	**2955580**	50
UM-SE 1	**2958147**	10
UM-SE-A73/N	**2962256**	10

Accessories

UM-SE-A60	**2955616**	10
UM-SE-A73	**2955603**	10
UM-SE-A60-R	**2956893**	10
UM-SE-A73-R	**2956741**	10
UM-A/U CM	**2854885**	1
UM-A/U 73-HT CM	**2853310**	1
UM-A/U N 73 CM	**2706852**	1
UM-H	**2955441**	10

Electronics housing for industrial electronics and semi-industrial applications
Profile racks and adapters

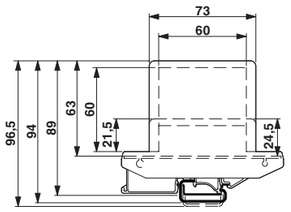


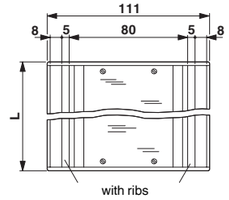
Assembly of UM modules - base element with ribs

PCB dimensions [mm]	Module length L [cm]	Base element UM-BEFE 35 UM-BEFE 35-1	Base element UM-BE 35 UM-BE 35-1	Base element UM-BE 16,5 UM-BE 16,5-1	Lateral element UM-SE A 60 UM-SE A 73 UM-SE-A 73	Length [cm] of U-shaped profile cover UM-A/U 60(73)...
38.5 x 107.5 x 1.5	4.0	1	–	–	2	3.5
55.0 x 107.5 x 1.5	5.65	1	–	1	2	5.15
73.5 x 107.5 x 1.5	7.5	2	–	–	2	7.0
90.0 x 107.5 x 1.5	9.15	2	–	1	2	8.65
108.5 x 107.5 x 1.5	11.0	2	1	–	2	10.5
125.0 x 107.5 x 1.5	12.65	2	1	1	2	12.15
143.5 x 107.5 x 1.5	14.5	2	2	–	2	14.0
160.0 x 107.5 x 1.5	16.15	2	2	1	2	15.65
178.5 x 107.5 x 1.5	18.0	3	2	–	2	17.5

Note on PCB assembly:

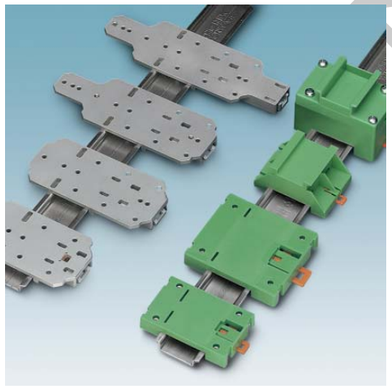
The area available for assembly is reduced by 3 mm at the edges of the base elements and by 1.6 mm at the front edge of the lateral elements.





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DIN rail adapter UTA, DIN rail adapter EM-MP/SISM



The UTA universal DIN rail adapters enable devices such as power supply units or sensor/actuator boxes to be snapped onto standard DIN rails in accordance with EN 60715.

The sturdy metal design with corrosion-resistant surface ensures a long service life and a secure grip even under extreme loads.

The EM-MP and SISM DIN-rail mountable mounting plates made from polycarbonate plastic are specially designed for small transformers of up to approx. 100 VA and offer additional installation space for interconnecting cables or electronic circuits.

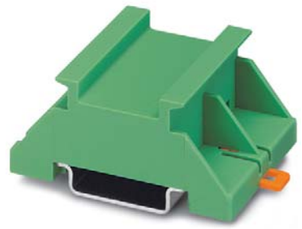
Details concerning the dimensions of the DIN rail adapters can be found in the downloadcenter at **www.phoenixcontact.net/products**.



Universal DIN rail adapter



Mounting plate, closed design



Mounting plate, low design



Mounting plate, flat design

Technical data

Type of housing

Electronic housings	Zinc die-cast / -

Ordering data

Description	Type	Order No.	Pcs. / Pkt.
Universal DIN rail adapter, for screwing on switchgear			
	UTA 89	**2853970**	5
	UTA 107	**2853983**	5
	UTA 130	**2706412**	5
	UTA 136	**2853996**	5
	UTA 159	**2854018**	5
	UTA 184	**2854021**	5
Mounting plate, enclosed design, to snap on switchgear			
Mounting plate, for screwing on switchgear (M4 fastening thread)			

Technical data

Polyamide fiber reinforced / V2

Ordering data

Type	Order No.	Pcs. / Pkt.
EM-MPG 45	**2944177**	10

Technical data

Polyamide fiber reinforced / V2

Ordering data

Type	Order No.	Pcs. / Pkt.
SISM 45	**2942865**	10
SISM 45 H	**2940139**	10

Technical data

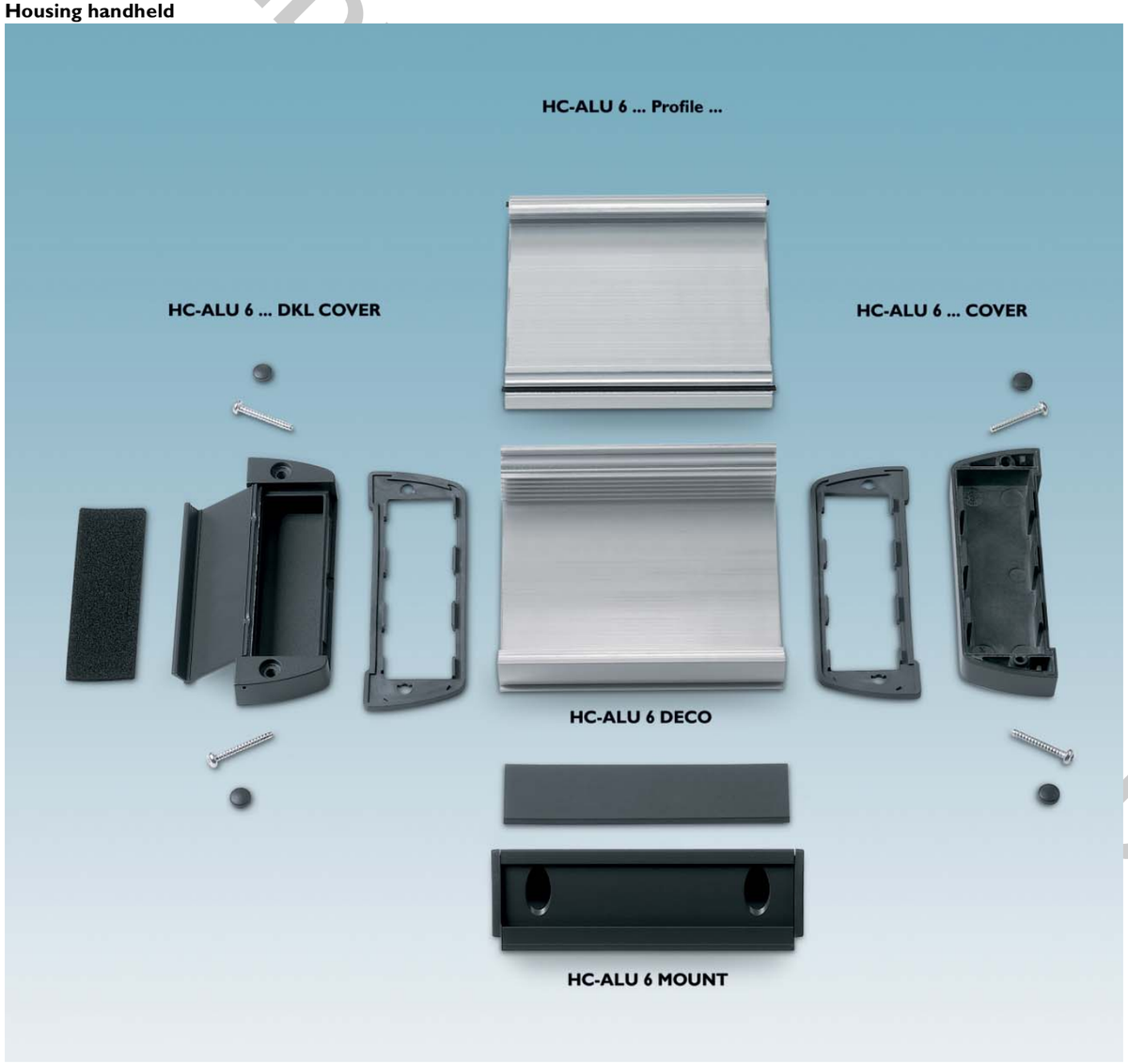
Polyamide fiber reinforced / V2

Ordering data

Type	Order No.	Pcs. / Pkt.
EM-MP 45N	**2943712**	10
EM-MP 70	**2942742**	10

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Housing handheld



HC-ALU handheld housings, which are made from aluminum, provide protection for your electronics against both spray water and thermal and mechanical stress in the field.

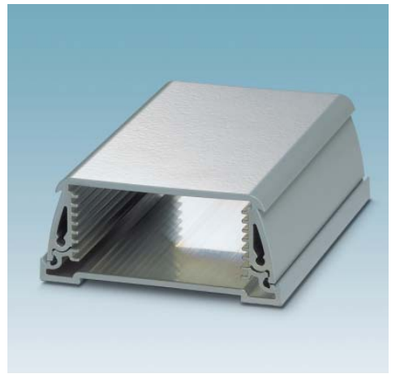
The housing is particularly suitable for temperature ranges from -40°C to +70°C and offers IP65 protection according to DIN EN 60529.

Electronics housing for industrial electronics and semi-industrial applications
Handheld housings for use in the field



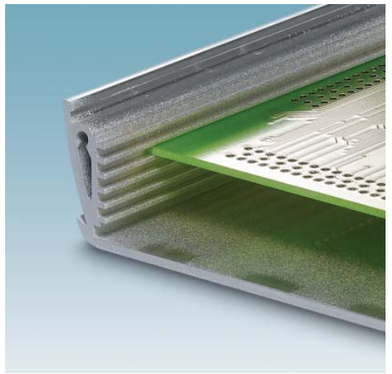
Split press-drawn section

The split housing enables the integration of elements which protrude through the front surface. Both profile halves securely latch together, making integrating a membrane keypad or display child's play.



Ergonomic design

The trapezoidal external shape of the housing improves ergonomics for the device operator. The level, smooth side of the housing also facilitates printing.



Unrestricted assembly

All PCBs have the same external dimensions and can be securely fixed in various locations in the housing. This provides the required flexibility for positioning various components or modules.



Intelligent interface

The COVERS have a 2 mm recessed surface for accommodating slides or labels. The version with mounting cover allows optional installation of plug-in connectors or sockets.

For improved EMC properties, an alternative version is available with a metal-filled seal.



Individual use

The sophisticated range of accessories opens up diverse applications. Decorative strips suitable for printing can be inserted into the grooves on the side of the housing. With the matching wall fastening, the housing can be used as a wall, operation, or front plate solution.



Added value from the works

In addition to the products which can be ordered from the catalog, we offer an extensive range of additional services from special profile lengths through additional mechanical processing and printing, and even membrane keypads.

www.pdfzy.com

HC-ALU 6... handheld aluminum profile housing



Aluminum profile
Width: 53.5 mm



Aluminum profile
Width: 78 mm



Aluminum profile
Width: 100.5 mm



Aluminum profile
Width: 161 mm

Description	Ordering data			Ordering data		
	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Silver split profile, including cord seal						
Length 100 mm	HC-ALU 6-53,5 PROFILE 100	2200887	1	HC-ALU 6-78 PROFILE 100	2200892	1
Length 150 mm	HC-ALU 6-53,5 PROFILE 150	2200888	1	HC-ALU 6-78 PROFILE 150	2200893	1
Length 200 mm	HC-ALU 6-53,5 PROFILE 200	2200889	1	HC-ALU 6-78 PROFILE 200	2200894	1
Length 1000 mm	HC-ALU 6-53,5 PROFILE 1000	2200890	1	HC-ALU 6-78 PROFILE 1000	2200895	1
End cover, graphite gray, with screws and seal	HC-ALU 6-53,5 COVER GY	2200891	1	HC-ALU 6-78 COVER GY	2200896	1
End cover, graphite gray, with hinged flap, screws and seal	HC-ALU 6-53,5 DKL-COVER GY	2201121	1	HC-ALU 6-78 DKL-COVER GY	2201122	1
Accessories						
EMC seal, black	HC-ALU 6-53,5 SEAL EMC	2200907	10	HC-ALU 6-78 SEAL EMC	2200908	10
Decorative strip, dark gray, length = 98.4 mm	HC-ALU 6 DECO 100 GY	2200914	10	HC-ALU 6 DECO 100 GY	2200914	10
Decorative strip, dark gray, length = 148.4 mm	HC-ALU 6 DECO 150 GY	2200915	10	HC-ALU 6 DECO 150 GY	2200915	10
Decorative strip, dark gray, length = 198.4 mm	HC-ALU 6 DECO 200 GY	2200916	10	HC-ALU 6 DECO 200 GY	2200916	10
Panel fastening, including cover caps, for 100 mm profile section, graphite gray	HC-ALU 6 MOUNT 100 GY	2200911	2	HC-ALU 6 MOUNT 100 GY	2200911	2
Panel fastening, including cover caps, for 150 mm profile section, graphite gray	HC-ALU 6 MOUNT 150 GY	2200912	2	HC-ALU 6 MOUNT 150 GY	2200912	2
Panel fastening, including cover caps, for 200 mm profile section, graphite gray	HC-ALU 6 MOUNT 200 GY	2200913	2	HC-ALU 6 MOUNT 200 GY	2200913	2
Screwdriver set, Torx® with drill bit, 6-part, incl. rack, contents: TX 8 x 60; TX 10 x 80; TX 15 x 80; TX 20 x 100; TX 25 x 100; TX 30 x 115	SF-TXH SET	1212538	1	SF-TXH SET	1212538	1
Bit screwdriver set with quick-action chuck, 89 mm long slotted/cross-recessed (PZ and PH)/hex / Torx® bits, 17-part, in folding belt pouch, contents: PH 1,2,3 x 89; PZ 1,2,3 x 89; SL 1.5 x 5.5 x 89; TX 10-30 x 89; SW 3,4,5,6 x 89	SF-M SET	1212543	1	SF-M SET	1212543	1

	Ordering data			Ordering data		
	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Silver split profile, including cord seal						
Length 100 mm	HC-ALU 6-100,5 PROFILE 100	2200897	1	HC-ALU 6-161 PROFILE 100	2200902	1
Length 150 mm	HC-ALU 6-100,5 PROFILE 150	2200898	1	HC-ALU 6-161 PROFILE 150	2200903	1
Length 200 mm	HC-ALU 6-100,5 PROFILE 200	2200899	1	HC-ALU 6-161 PROFILE 200	2200904	1
Length 1000 mm	HC-ALU 6-100,5 PROFILE 1000	2200900	1	HC-ALU 6-161 PROFILE 1000	2200905	1
End cover, graphite gray, with screws and seal	HC-ALU 6-100,5 COVER GY	2200901	1	HC-ALU 6-161 COVER GY	2200906	1
End cover, graphite gray, with hinged flap, screws and seal	HC-ALU 6-100,5 DKL-COVER GY	2201123	1			
Accessories						
EMC seal, black	HC-ALU 6-100,5 SEAL EMC	2200909	10	HC-ALU 6-161 SEAL EMC	2200910	10
Decorative strip, dark gray, length = 98.4 mm	HC-ALU 6 DECO 100 GY	2200914	10	HC-ALU 6 DECO 100 GY	2200914	10
Decorative strip, dark gray, length = 148.4 mm	HC-ALU 6 DECO 150 GY	2200915	10	HC-ALU 6 DECO 150 GY	2200915	10
Decorative strip, dark gray, length = 198.4 mm	HC-ALU 6 DECO 200 GY	2200916	10	HC-ALU 6 DECO 200 GY	2200916	10
Panel fastening, including cover caps, for 100 mm profile section, graphite gray	HC-ALU 6 MOUNT 100 GY	2200911	2	HC-ALU 6-161 MOUNT 100 GY	2201327	2
Panel fastening, including cover caps, for 150 mm profile section, graphite gray	HC-ALU 6 MOUNT 150 GY	2200912	2	UM-ALU 6-161 MOUNT 150 GY	2201332	2
Panel fastening, including cover caps, for 200 mm profile section, graphite gray	HC-ALU 6 MOUNT 200 GY	2200913	2	UM-ALU 6-161 MOUNT 200 GY	2201334	2
Screwdriver set, Torx® with drill bit, 6-part, incl. rack, contents: TX 8 x 60; TX 10 x 80; TX 15 x 80; TX 20 x 100; TX 25 x 100; TX 30 x 115	SF-TXH SET	1212538	1	SF-TXH SET	1212538	1
Bit screwdriver set with quick-action chuck, 89 mm long slotted/cross-recessed (PZ and PH)/hex / Torx® bits, 17-part, in folding belt pouch, contents: PH 1,2,3 x 89; PZ 1,2,3 x 89; SL 1.5 x 5.5 x 89; TX 10-30 x 89; SW 3,4,5,6 x 89	SF-M SET	1212543	1	SF-M SET	1212543	1

Notes on power dissipation

Power dissipation values should be used as a guide only. They are largely dependent on:

- The PCB arrangement in the housing
- The position of components (as a source of heat)
- The number of assembled PCBs in the housing
- The mounting position of the housing

Reduction factor depending on the ambient temperature

Since the maximum permissible power dissipation decreases as the ambient temperature increases, the listed reduction factor (K_l) must be taken into account when calculating the permissible power dissipation.

Formula for calculating the power dissipation depending on the ambient temperature $P_{vtu} = P_{vt} \times K_l$

Explanations:

P_v = Power dissipation
t_u = Ambient temperature
t = 20°C
K_l = Reduction factor

Example:

Power dissipation at 40°C
$P_v40°C = P_v20°C \times K_l = 10.8\ W \times 0.81 = 8.75\ W$

Reduction factor for CM compact component housing

Ambient temperature [°C]

	20	30	40	50	60
K_l	1	0.83	0.65	0.48	0.33

Reduction factor for ME/ME BUS/ME TBUS/ME MAX modular component housing

Ambient temperature [°C]

	20	30	40	50	60
K_l	1	0.91	0.81	0.7	0.57

Reduction factor for EG beaker-type component housing

Ambient temperature [°C]

	20	30	40	50	60
K_l	1	0.80	0.62	0.47	0.30

Reduction factor for UEGH universal component housing

Ambient temperature [°C]

	0	10	20	30	40	50	60
K_l	1.15	1.08	1	0.91	0.81	0.71	0.59

Electronics housing for industrial electronics and semi-industrial applications
Technical data

Reduction factor for UEG-EU universal component housing

Ambient temperature [°C]

	20	30	40	50	60
K_l	1	0.87	0.75	0.58	0.49

Reduction factor for UEGM universal component housing

Ambient temperature [°C]

	20	30	40	50	60	70	80
K_l	1	0.8	0.64	0.51	0.41	0.33	0.26

Reduction factor for UEG universal component housing

Ambient temperature [°C]

	20	30	40	40	60	70	80
K_l	1	0.78	0.61	0.48	0.37	0.29	0.23

Reduction factor for EFG single component housing

Ambient temperature [°C]

	20	30	40	50	60
K_l	1	0.90	0.78	0.66	0.55

Reduction factor for EMG system component housing

Ambient temperature [°C]

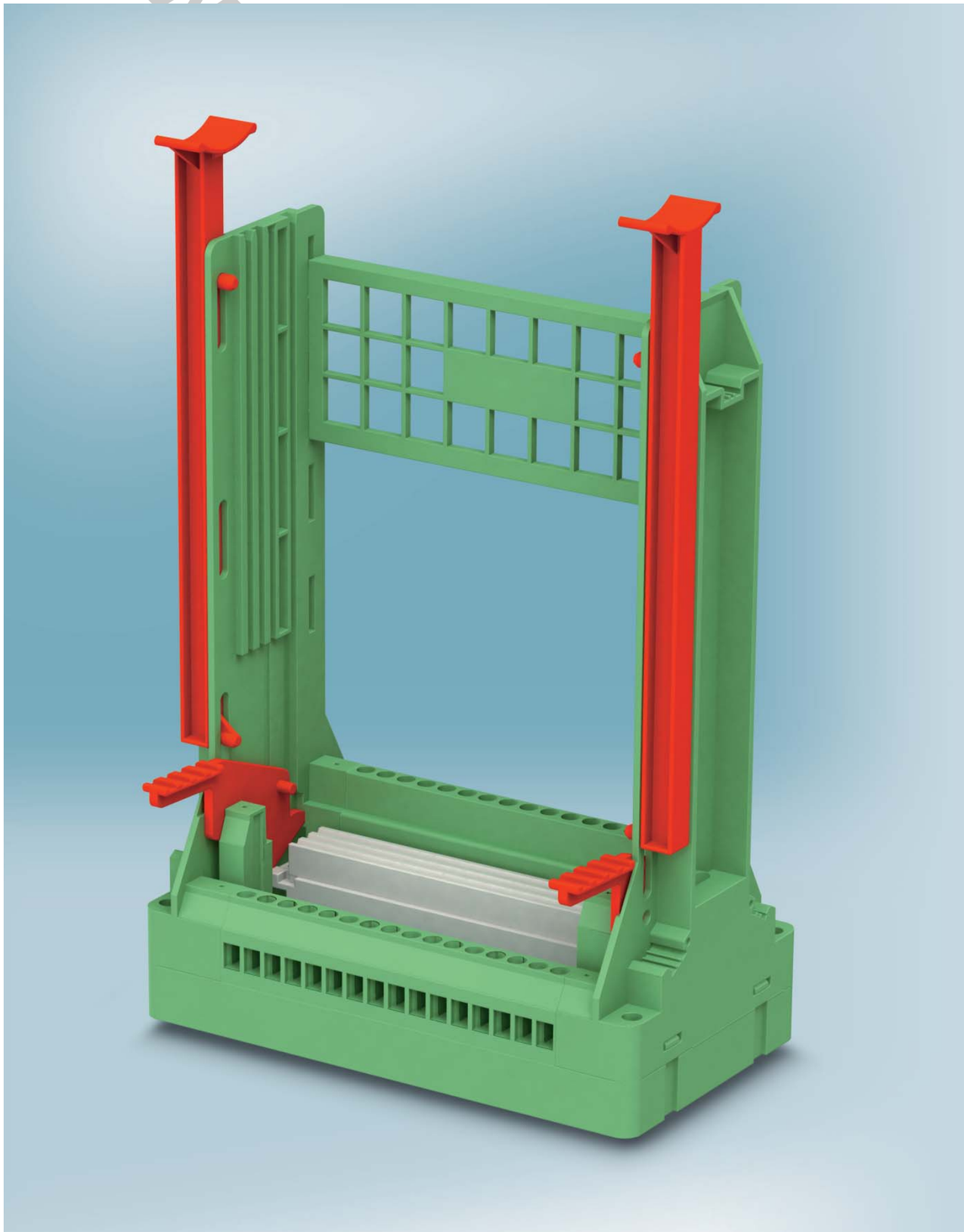
	20	30	40	50	60
K_l	1	0.8	0.64	0.51	0.41

Reduction factor for BC installation component housing

Ambient temperature [°C]

	20	30	40	50	60	70
K_l	1	0.84	0.72	0.60	0.48	0.38

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Plug-in card blocks and socket strips according to DIN 41617 and IEC 60603-2/DIN 41612

Plug-in card blocks SKBI

?SKBI plug-in card blocks for plug-in connectors according to DIN 41617 and IEC 60603-2/DIN 41612 can be used to mount single or double European-format cards at any location in the control cabinet and wire them easily via a screw connection. The PCB is reliably supported in the rugged insulating housing and is automatically held in position by engagement catches which prevent it from falling out. The easy-to-operate ejectors make releasing the PCB easy, even where space is limited.

SFLY/FRONT-SFL screw-type socket strips

The SFLY and FRONT-SFL socket strips with screw connection at the rear have been developed for use in 19" racks. They are suitable for D and F design 32-pos. pin strips according to IEC 60603-2/ DIN 41612. The special feature of the Y-shaped SFLY screw-type socket strip is the angled arrangement of the terminal blocks. In addition to user-friendly handling and a clear view during connection, the conductors can be laid in this “cable duct” without taking up any additional space.

Socket strip with spring-cage connection FRONT-ZFL 1,5/...

The FRONT-ZFL 1,5 D32 socket strip with a spring-cage connection at the rear has been specially developed for use in 19" racks. The installation dimensions and the labeling of the individual terminal points meet the requirements of IEC 60603-2/ DIN 41612 for design D32.

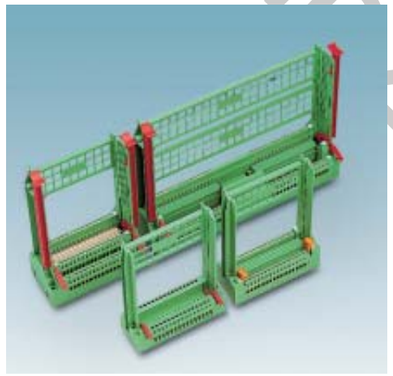
General

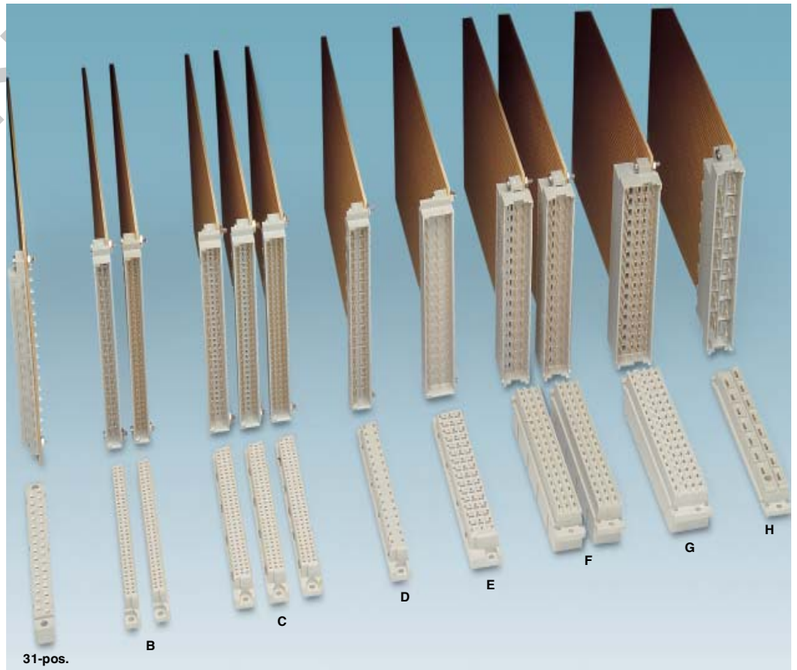
SKBI plug-in card blocks **776**
For plug-in connectors according to DIN 41617 and IEC 60603-2/DIN 41612

SFLY screw-type socket strips **788**
For pin strips according to IEC 60603-2/DIN 41612

Socket strips with FRONT-ZFL spring-cage connection **789**
For plug-in connectors according to IEC 60603-2/DIN 41612
FRONT-ZFL socket strip

FRONT-SFL screw-type socket strips **790**





General

Industrial electronics are a fixed component of conventional control engineering. PCBs in 100 x 160 mm European format are primarily used here.

Increased safety requirements and the higher density of components and connections are speeding up the trend toward the indirect contacting principle using pin strips according to DIN 41617 and IEC 60603-2/DIN 41612.

Plug-in cards are usually grouped together in the electronic racks of 19" cabinets. Although these types of racks are practical for many PCBs, they are expensive:

– If only one, two or three cards are installed and connected.
– If the PCB is distributed, thereby saving wiring in the control cabinet.
– If older systems are later modernized by adding one or two electronic cards.

Racks are expensive, bulky, and can only be accessed from the rear or with the aid of a complex swing frame. In addition, connections can often only be made with the Wire-Wrap® or TERMI-POINT® connection methods, which are not suitable for heavy currents.

These disadvantages are overcome by Phoenix Contact SKBI plug-in card blocks. They can be used to mount single or double European-format cards at any location in the control cabinet and wire them easily via a screw connection.

The PCB is reliably supported in the sturdy insulating housing and is automatically held in position by engagement catches which protect it from vibrations. The easy-to-operate ejectors make releasing the PCB easy, even where space is limited.

Plug-in connectors according to DIN 41617 and IEC 60603-2/DIN 41612

With the introduction of the 100 x 160 mm European format, the 31-pos. pin strip according to DIN 41617 was commonly used at the beginning of the 1960s as an indirect plug-in connector. The exposed, round pins in a metric 5 mm zigzag arrangement are typical of these connectors.

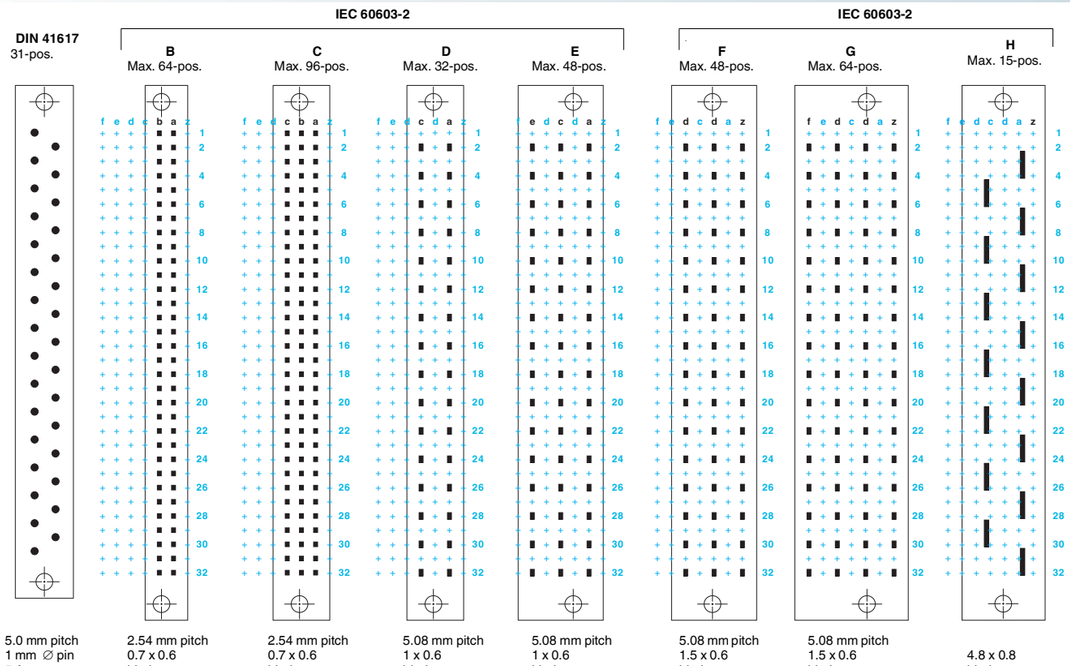
The rapid developments in industrial electronics, i.e., the increasing packing density of electronic components on the PCB, required greater numbers of contacts. Moreover, safety requirements were designed for increased protection of the contact pins against mechanical damage and contamination. This led to the development of the plug-in connector according to IEC 60603-2/DIN 41617.

All types in this range are based on a pitch of 2.54 mm (one tenth of an inch). The seven vertical rows are marked z to f, the individual pins of the lines are marked 1 to 32 from top to bottom. All contacts are gold-plated. The standards also require that plug-in connectors consisting of pin and socket strips and made by different manufacturers should be compatible with one another.

Over time, two types with different contact assignments have emerged:

Plug-in card blocks and socket strips according to DIN 41617 and IEC 60603-2/DIN 41612

General



Series 1

Series 1 plug-in connectors are available both as a high-position version with closely spaced contacts and 1 A current carrying capacity, and (for industrial power electronics) with a smaller number of positions, a large 5.08 mm contact pitch, and contacts capable of carrying up to 4 A.

Type **B**

This 64-pos. plug-in connector results from the complete use of rows a and b. The contacts are dimensioned for a current carrying capacity of 1 A. The position spacing means that these connectors can be used for voltages up to 125 V according to DIN VDE 0110/Gr. B. In the 32-pos. version, only the even-numbered positions are used.

Type **C**

Adding row c produces this 96-pos. plug-in connector. If only the two outer rows, a and c, are used, the alternative type, C 64, results.

If this is further reduced to just the even-numbered positions of rows a and c, type C 32 with a 5.08 mm horizontal and vertical spacing of the 1 A contacts results. A nominal voltage of 250 V is thereby achieved according to DIN VDE 0110/Gr. C.

Type **D**

This connector has the same dimensions and the same contact arrangement (even-numbered positions in rows a and c) as type C 32. The only difference is the reinforced contacts, which are capable of carrying a current of up to 4 A.

Type **E**

Adding rows d and e to type D 32 results in the 48-pos. connector with 4 A contacts with 5.08 mm pitch. This means that all even-numbered positions in rows a, c, and e are used.

Series 2

For series 2 plug-in connectors, the pitch of the rear connections in both directions is 5.08 mm. The row spacing on the plug-in side is just 3.81 mm. In addition, the creepage distances to ground are increased by raising the housing at the rear, resulting in a different wiring level from that of series 1.

The contacts are all capable of carrying up to 4 A. For this reason, series 2 plug-in connectors are primarily used in industrial power electronics.

The fixing hole is almost exactly in the center of the strip. The trick to this is that another contact row, marked z, is added in front of row a. (This comes from regarding the alphabet as a closed ring and counting backwards from a.)

Type **F**

In addition to the complete 48-pos. design which uses all even-numbered positions in rows z, b, and d, the DIN standard also includes a partially assembled 32-pos. version in rows z and b. Occasionally, to ensure larger mutual insulation distances, the positions in rows z and d may be used.

Type **G**

This type results from adding pitch rows e and f, while still using only the even-numbered positions.

Type **H**

These 15-pos. high-current strips have the same dimensions as types C and F. However, they are distinguished by a different plug-in geometry and amplified contacts with a current carrying capacity of 15 A.

Other types

In addition to the strips equipped with the same type of contacts, there are mixed types, e.g., H 7/F 24, shortened versions such as C 1/2, and inverted type R. All these, however, play a secondary role in practical industrial applications.

More details available on request.

www.DZYS.com

Plug-in card blocks SKBI

31-pos. plug-in card block for European-format cards with indirect connection in accordance with DIN 41617

PCBs with 31-pos. connectors in accordance with DIN 41617 with the characteristic zig-zag layout of the round pins are still widely used.
In the case of the SKBI 31 plug-in card block, the pins make contact with gold-plated fork springs, which are floating, i.e. mechanically decoupled from the terminal point. This makes the contact resistance very stable and lower than 2 mΩ.

In order to prevent incorrect insertion of the PCBs and the plug-in card blocks, specific contact pins are cut off and the corresponding contact holes are closed with CS/SKBI keying pins.



31-pos., in acc. with DIN 41617

Technical data

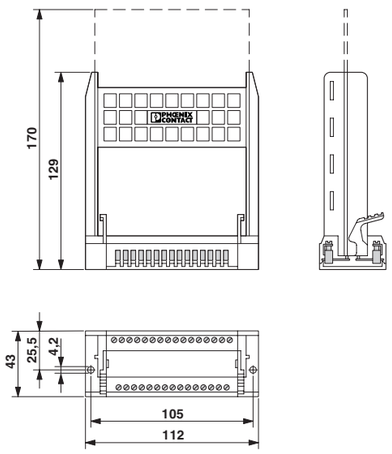
General data	
Pitch	5 mm
Pin diameter	1.00 mm
Voltage	250 V
Current	5 A
Stripping length	8 mm
Screw thread	M3
Torque	0.5 Nm ... 0.6 Nm
Connection data solid / stranded / AWG	0.2 ... 4 mm² / 0.2 ... 2.5 mm² / 24 - 12

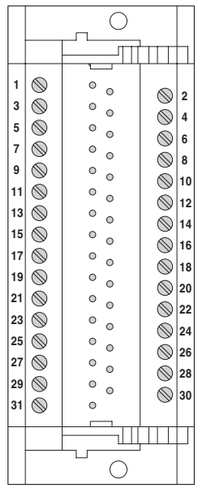
Ordering data

Description	Type	Order No.	Pcs. / Pkt.
Plug-in card block, 31-pos., for indirect connection in accordance with IEC 60603-1/DIN 41617, including guide rails, engagement catches and ejector, with standardized marking on both connection sides, as well as fixing screws M4	**SKBI 31**	**2201519**	1

Accessories

Snap-on foot, for horizontal or vertical mounting of the blocks on the NS 35/7.5-DIN rail	**SF-SKBI 31/32**	**2261009**	10
Keying pin, plastic, is subsequently inserted into a contact of the SKBI, color: Red	**CS-SKBI**	**2204082**	100
Screwdriver Blade: 0,6 x 3.5 x 100 mm, length: 181 mm	**SZS 0,6X3,5**	**1205053**	10





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Plug-in card blocks SKBI

32-pos. plug-in card blocks for European-format cards with indirect connection in accordance with IEC 60603-2/DIN 41612

The three blocks in this series permit insertion of PCBs with male connector designs C, D, and F in accordance with IEC 60603-2/DIN 41612. The blocks are labeled according to the standard and have spring-loaded engagement catches, which do not, however, act as ejectors.



32-pos., type C



32-position, type D



32-pos., type F, equipped in rows z and b



32-pos., type F, equipped in rows z and d

Technical data

General data	
Pitch	5.08 mm
Knife dimensions	0.7 x 0.6 mm
Voltage	250 V
Current	1 A
Stripping length	8 mm
Screw thread	M3
Torque	0.5 Nm ... 0.6 Nm
Connection data solid / stranded / AWG	0.2 ... 4 mm² / 0.2 ... 2.5 mm² / 24 - 12

Ordering data

Description	Type	Order No.	Pcs. / Pkt.
Plug-in card block, 32-pos., for indirect connection in accordance with IEC 60603-2/DIN 41612, complete with guide rails and engagement catches, without ejector, with standardized labeling on both connection sides, as well as M4 mounting screws	**SKBI 32/C**	**2261038**	1

Accessories

Snap-on foot, for horizontal or vertical mounting of the blocks on the NS 35/7.5-DIN rail	**SF-SKBI 31/32**	**2261009**	10
Keying pin, plastic, is subsequently inserted into a contact of the SKBI, color: Red	**CS-SKBI**	**2204082**	100

Technical data

5.08 mm	
1 x 0.6 mm	
250 V	
4 A	
8 mm	
M3	
0.5 Nm ... 0.6 Nm	
0.2 ... 4 mm² / 0.2 ... 2.5 mm² / 24 - 12	

Ordering data

Type	Order No.	Pcs. / Pkt.
SKBI 32/D	**2261054**	1

Accessories

SF-SKBI 31/32	**2261009**	10

Technical data

5.08 mm	
1.5 x 0.6 mm	
250 V (in acc. with DIN VDE 0110/Gr.B)	
4 A	
8 mm	
M3	
0.5 Nm ... 0.6 Nm	
0.2 ... 4 mm² / 0.2 ... 2.5 mm² / 24 - 12	

Ordering data

Type	Order No.	Pcs. / Pkt.
SKBI 32/F/ZB	**2261096**	1

Accessories

SF-SKBI 31/32	**2261009**	10

Technical data

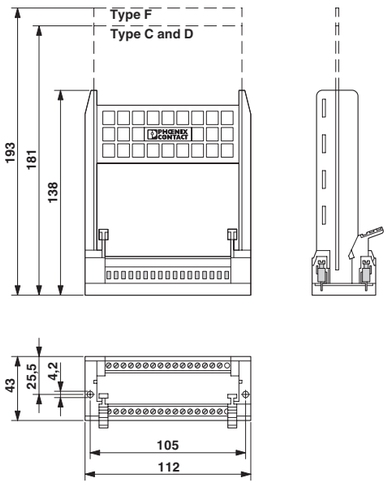
5.08 mm	
1.5 x 0.6 mm	
250 V (in acc. with DIN VDE 0110/Gr.B)	
4 A	
8 mm	
M3	
0.5 Nm ... 0.6 Nm	
0.2 ... 4 mm² / 0.2 ... 2.5 mm² / 24 - 12	

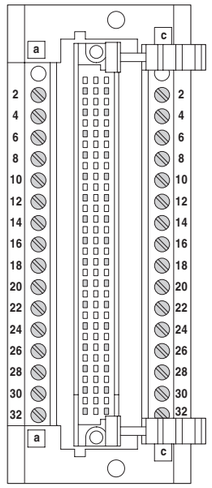
Ordering data

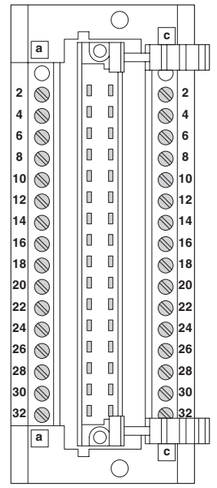
Type	Order No.	Pcs. / Pkt.
SKBI 32/F/ZD	**2261106**	1

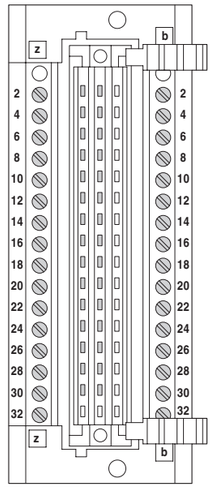
Accessories

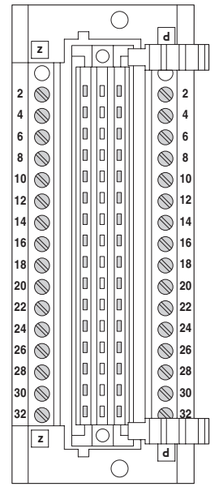
SF-SKBI 31/32	**2261009**	10











Plug-in card blocks SKBI

64-pos. plug-in card blocks for European-format cards with indirect connection in accordance with IEC 60603-2/ DIN 41612

These plug-in card blocks have double-level screw connection terminal block rows on both sides. The offset arrangement of the levels improves the conductor accessibility and the legibility of labels. The robust overall design of the block ensures sturdy support also for heavy PCBs. These are held in place by engagement catches with an ejector that can be operated from the front.



64-pos., type B

Technical data

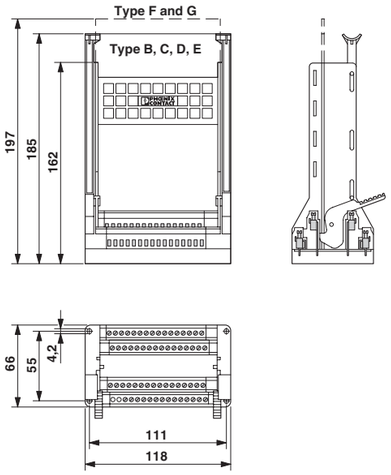
General data	
Pitch	2.54 mm
Knife dimensions	0.7 x 0.6 mm
Voltage	125 V (in acc. with DIN VDE 0110/Gr.B)
Current	1 A
Stripping length	8 mm
Screw thread	M3
Torque	0.5 Nm ... 0.6 Nm
Connection data solid / stranded / AWG	0.2 ... 4 mm² / 0.2 ... 2.5 mm² / 24 - 12

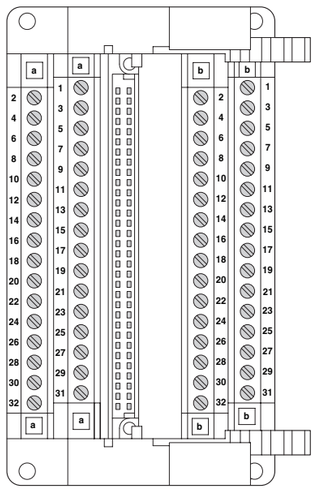
Ordering data

Description	Type	Order No.	Pcs. / Pkt.
Plug-in card block, 64-pos., for indirect connection in accordance with IEC 60603-2/DIN 41612, complete with guide rails, engagement catches, and ejector, with standardized labeling on both connection sides, as well as M4 mounting screws	**SKBI 64/B64**	**2263023**	1

Accessories

Snap-on foot, for horizontal or vertical mounting of the blocks on the NS 35/7.5-DIN rail	**SF-SKBI 64**	**2263007**	10
Screwdriver Blade: 0,6 x 3.5 x 100 mm, length: 181 mm	**SZS 0,6X3,5**	**1205053**	10







32-pos., type C, equipped in the even numbers of positions in rows a and c

Technical data

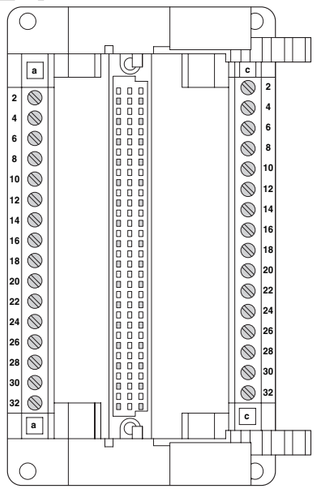
	5.08 mm
	0.7 x 0.6 mm
	250 V (surge voltage category III/contamination class 2)
	1 A
	8 mm
	M3
	0.5 Nm ... 0.6 Nm
	0.2 ... 4 mm² / 0.2 ... 2.5 mm² / 24 - 12

Ordering data

Type	Order No.	Pcs. / Pkt.
SKBI 64/C32	**2265034**	1

Accessories

SF-SKBI 64	**2263007**	10
SZS 0,6X3,5	**1205053**	10





64-pos., type C, equipped in rows a and c

Technical data

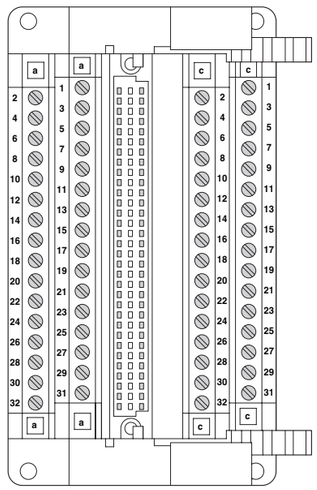
	2.54 mm
	0.7 x 0.6 mm
	125 V (in acc. with DIN VDE 0110/Gr.B)
	1 A
	8 mm
	M3
	0.5 Nm ... 0.6 Nm
	0.2 ... 4 mm² / 0.2 ... 2.5 mm² / 24 - 12

Ordering data

Type	Order No.	Pcs. / Pkt.
SKBI 64/C64	**2263036**	1

Accessories

SF-SKBI 64	**2263007**	10
SZS 0,6X3,5	**1205053**	10



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Plug-in card blocks SKBI

Plug-in card blocks for European-format cards with indirect connection in accordance with IEC 60603-2/ DIN 41612

These plug-in card blocks have screw connection terminal block rows on both sides. Additional labeling makes it easier to connect the conductors. The robust overall design of the block ensures sturdy support for heavy PCBs as well. These are held in place by engagement catches with an ejector that can be operated from the front.



32-pos., type D, equipped in rows a and c

Technical data

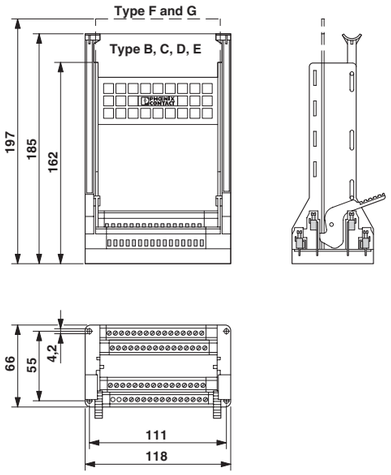
General data	
Pitch	5.08 mm
Knife dimensions	1 x 0.6 mm
Voltage	250 V (surge voltage category III/contamination class 2)
Current	4 A
Stripping length	8 mm
Screw thread	M3
Torque	0.5 Nm ... 0.6 Nm
Connection data solid / stranded / AWG	0.2 ... 4 mm² / 0.2 ... 2.5 mm² / 24 - 12

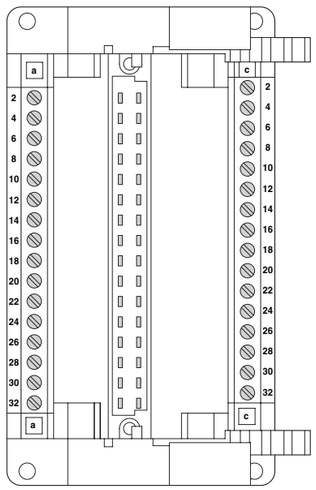
Ordering data

Description	Type	Order No.	Pcs. / Pkt.
Plug-in card block, 64-pos., for indirect connection in accordance with IEC 60603-2/DIN 41612, complete with guide rails, engagement catches, and ejector, with standardized labeling on both connection sides, as well as M4 mounting screws	**SKBI 64/D32**	**2265050**	1

Accessories

Snap-on foot, for horizontal or vertical mounting of the blocks on the NS 35/7.5-DIN rail	**SF-SKBI 64**	**2263007**	10
Screwdriver Blade: 0,6 x 3.5 x 100 mm, length: 181 mm	**SZS 0,6X3,5**	**1205053**	10







48-pos., type E, equipped in rows a, c, and e

Technical data

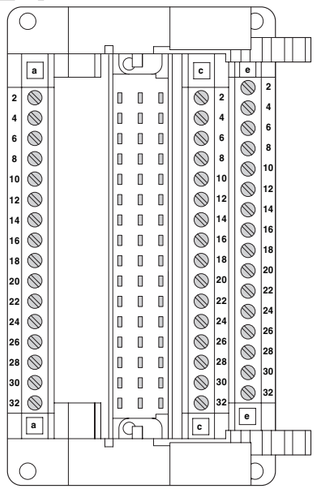
5.08 mm
1 x 0.6 mm
250 V (surge voltage category III/contamination class 2)
4 A
8 mm
M3
0.5 Nm ... 0.6 Nm
0.2 ... 4 mm² / 0.2 ... 2.5 mm² / 24 - 12

Ordering data

Type	Order No.	Pcs. / Pkt.
SKBI 64/E48	**2264080**	1

Accessories

SF-SKBI 64	**2263007**	10
SZS 0,6X3,5	**1205053**	10





48-pos., type F, equipped in rows z, b, and d

Technical data

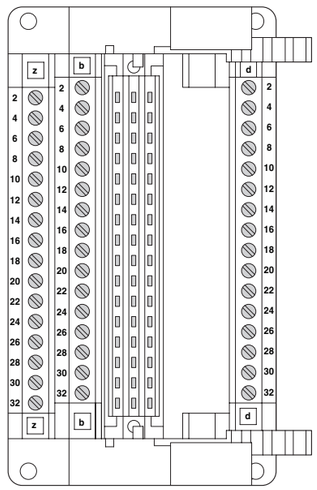
5.08 mm
1.5 x 0.6 mm
250 V (in acc. with DIN VDE 0110/Gr.B)
4 A
8 mm
M3
0.5 Nm ... 0.6 Nm
0.2 ... 4 mm² / 0.2 ... 2.5 mm² / 24 - 12

Ordering data

Type	Order No.	Pcs. / Pkt.
SKBI 64/F48	**2264093**	1

Accessories

SF-SKBI 64	**2263007**	10
SZS 0,6X3,5	**1205053**	10





64-pos., type G, equipped in rows z, b, d, and f

Technical data

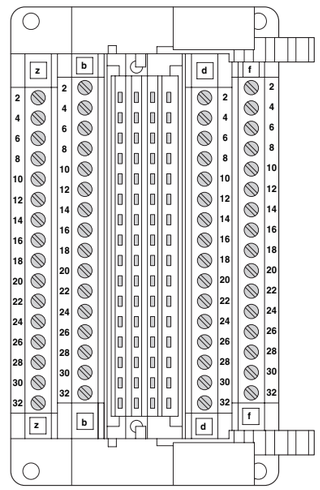
5.08 mm
1.5 x 0.6 mm
250 V (in acc. with DIN VDE 0110/Gr.B)
4 A
8 mm
M3
0.5 Nm ... 0.6 Nm
0.2 ... 4 mm² / 0.2 ... 2.5 mm² / 24 - 12

Ordering data

Type	Order No.	Pcs. / Pkt.
SKBI 64/G64	**2263117**	1

Accessories

SF-SKBI 64	**2263007**	10
SZS 0,6X3,5	**1205053**	10



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Plug-in card blocks SKBI

15-pos. plug-in card blocks for European-format cards with H15 high-current socket strip in accordance with IEC 60603-2/DIN 41612

With these plug-in card blocks, single 19" power supply racks, e.g. switched-mode power supply units, can be mounted at any point in the control cabinet and easily wired with a screw connection. Every position of the H 15 high-current socket strip is assigned with either two 2.5 mm² MKDS 3, or one 4 mm² MKDS 5 connection terminal block. The robust overall design of the blocks ensures sturdy support also for heavy PCBs. After insertion, these are automatically secured against vibrations with two engagement catches with an ejector that can be operated from the front.



15-pos., 2.5 mm² connection cross section

Technical data

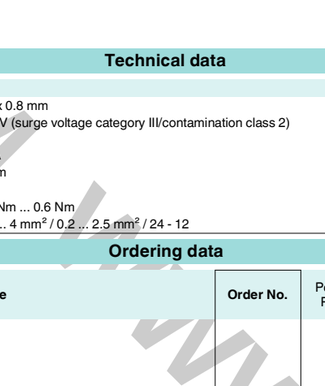
General data	
Knife dimensions	4.8 x 0.8 mm
Voltage	250 V (surge voltage category III/contamination class 2)
Current	15 A
Stripping length	8 mm
Screw thread	M3
Torque	0.5 Nm ... 0.6 Nm
Connection data solid / stranded / AWG	0.2 ... 4 mm² / 0.2 ... 2.5 mm² / 24 - 12

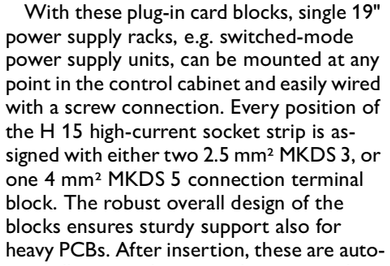
Ordering data

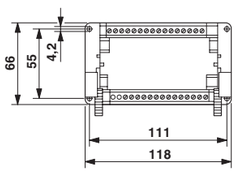
Description	Type	Order No.	Pcs. / Pkt.
Plug-in card block, with **MKDS 3** screw terminal blocks and connection terminal blocks, and **H15 high-current socket strip** for indirect control in accordance with IEC 60603-2/DIN 41612, complete with guide rails, engagement catches, and ejector, with standardized labeling on both connection sides, as well as M4 mounting screws	**SKBI 64/H15-MKDS3**	**2269140**	1
Plug-in card block, with **MKDS 5** screw connection terminal blocks and **H15 high-current socket strip** for indirect connection in accordance with IEC 60603-2/DIN 41612, complete with guide rails, engagement catches, and ejector, with standardized labeling on both connection sides, as well as M4 mounting screws			

Accessories

Snap-on foot, for horizontal or vertical mounting of the blocks on the NS 35/7.5-DIN rail	**SF-SKBI 64**	**2263007**	10
Screwdriver Blade: 0,6 x 3.5 x 100 mm, length: 181 mm	**SZS 0,6X3,5**	**1205053**	10









15-pos., 4 mm² connection cross section

Technical data

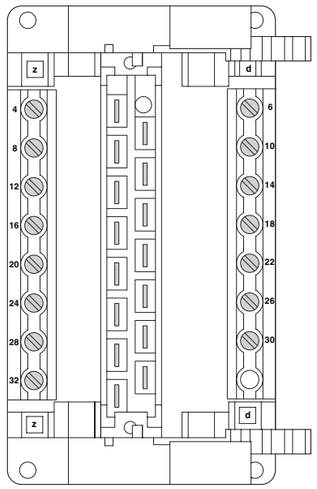
4.8 x 0.8 mm	
500 V (surge voltage category III/contamination class 2)	
15 A	
8 mm	
M3	
0.5 Nm ... 0.6 Nm	
0.2 ... 6 mm² / 0.2 ... 4 mm² / 24 - 10	

Ordering data

Type	Order No.	Pcs. / Pkt.
SKBI 64/H15-MKDS5	**2269153**	1

Accessories

SF-SKBI 64	**2263007**	10
SZS 0,6X3,5	**1205053**	10



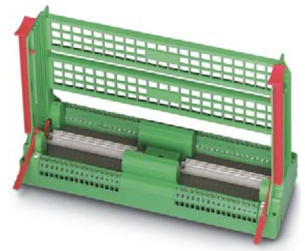
Plug-in card blocks SKBI

Notes:

Note:
Current and voltage specifications are determined by the connector used.

128-pos. plug-in card blocks for double European-format cards with indirect connection in accordance with IEC 60603-2/DIN 41612

The desire to accommodate more and more components on one PCB has made the double European format (160 x 233.4 mm) very popular. However: With this PCB format, 19" racks become very expensive if only one, two or three PCBs must be accommodated in the control cabinet.
The SKBI 128 is mounted reliably on the base with five screws, and its rigid, rugged design safely supports the valuable PCBs, which are held in place by two engagement catches with an ejector which can be operated from the front.



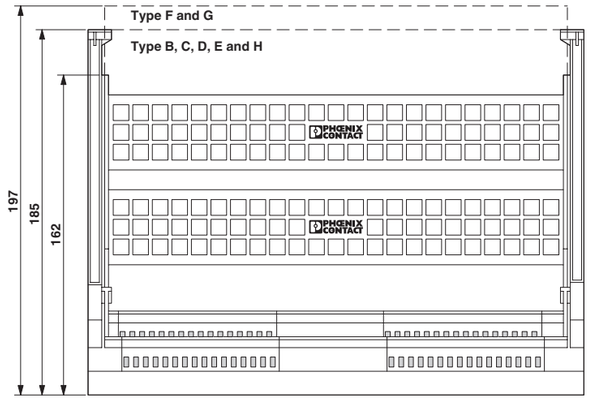
Different types from 64- to 128-pos.

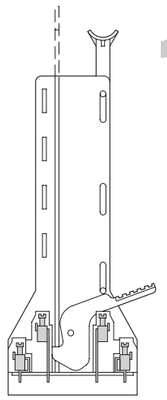
Technical data

General data	
Stripping length	8 mm
Screw thread	M3
Torque	0.5 Nm ... 0.6 Nm
Connection data solid / stranded / AWG	0.2 ... 4 mm² / 0.2 ... 2.5 mm² / 24 - 12

Ordering data

Description	Type	Order No.	Pcs. / Pkt.
Plug-in card block, for indirect connection in accordance with IEC 60603-2/DIN 41612, complete with guide rails, engagement catches, and ejector, with standardized labeling on both connection sides, as well as M4 mounting screws with connectors			
	SKBI 128-B64/B64	**2268028**	1
	SKBI 128-C32/C32	**2270032**	1
	SKBI 128-C64/C64	**2268031**	1
	SKBI 128-D32/D32	**2270058**	1
	SKBI 128-E48/E48	**2269085**	1
	SKBI 128-F48/F48	**2269098**	1
	SKBI 128-G64/G64	**2268112**	1





For additional information, visit www.phoenixcontact.net/products

Socket strip with screw connection SFLY 2,5/D 32

The SFLY 2,5/... Y-shaped socket strip with a screw connection at the rear has been developed for use in 19" racks. It is suitable for use with pin strip types D 32 or F 32 according to IEC 60603-2/DIN 41612.

The socket strips have partially gold-plated contact springs which conform to requirement category 3 in acc. with IEC 60603-2/DIN 41612. The screw connections are designed in accordance with the tension sleeve principle for 2.5 mm² connection cross sections.



32-position, type D



32-pos., type F, equipped in rows z and b

Technical data

General data	
Voltage	250 V
Current	4 A
Stripping length	8 mm
Screw thread	M3
Torque	0.5 Nm ... 0.6 Nm
Connection data solid / stranded / AWG	0.2 ... 4 mm² / 0.2 ... 2.5 mm² / 24 - 12
Surge voltage category / insulating material group	- / I
Insulation material	PA
Inflammability class in acc. with UL 94	V2
Temperature indices (RTI/TI)	120/100

Technical data

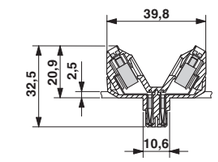
General data	
Voltage	250 V
Current	4 A
Stripping length	8 mm
Screw thread	M3
Torque	0.5 Nm ... 0.6 Nm
Connection data solid / stranded / AWG	0.2 ... 4 mm² / 0.2 ... 2.5 mm² / 24 - 12
Surge voltage category / insulating material group	- / I
Insulation material	PA
Inflammability class in acc. with UL 94	V2
Temperature indices (RTI/TI)	120/100

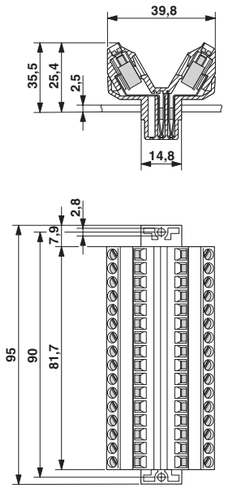
Ordering data

Description	Type	Order No.	Pcs. / Pkt.
Screw-type socket strip, type D, 32-position, fully equipped in rows **a + c**, with standardized marking on both connection sides, one 2.5 mm² screw connection per position	**SFLY 2,5/D32**	**2285467**	10
Screw-type socket strip, type F, with standardized marking on both connection sides, 1 screw connection per position 2.5 mm² 32-position, equipped in rows **z + b**	**SFLY 2,5/F32/ZB**	**2285506**	10

Ordering data

Description	Type	Order No.	Pcs. / Pkt.





Socket strip with spring-cage connection FRONT-ZFL 1,5/D 32

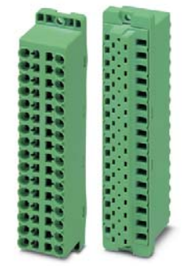
The FRONT-ZFL 1,5/D32 socket strip with a spring-cage connection at the rear has been specially developed for use in 19" racks. The installation dimensions and the labeling of the individual terminal points fulfill the requirements of IEC 60603-2/ DIN 41612 for design D32.

The compact spring-cage technology allows solid and stranded conductors up to 1.5 mm² to be connected. With a nominal voltage of 250 V, currents of up to 4 A can be transmitted reliably.

When the FRONT-ZFL 1,5/D32 was being developed, care was taken to ensure clear separation between the conductor connection and the actuation opening, to permit simple and quick conductor connections.

The integrated test connection with a 1 mm diameter makes it possible to constantly monitor the connected PCB.

On the plug-in card side, the socket strip has partially gold-plated contact forks that conform to requirement class 2 in acc. with IEC 60603-2/DIN 41612.



32-position, type D

Technical data

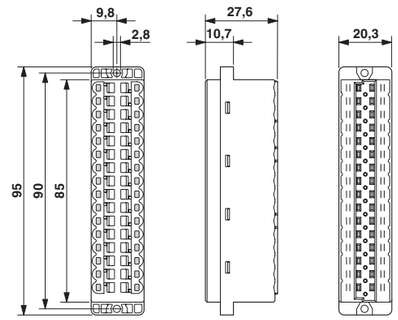
General data		
Voltage		250 V
Current		4 A
Stripping length		11 mm
Rated surge voltage / pollution degree		4 kV / -
Surge voltage category / insulating material group		- / I
Insulation material		PBT
Inflammability class in acc. with UL 94		V0
Temperature indices (RTI/TI)		140/120
Certification data		
UL	[V] / [A] / AWG	300 / 4 / 24 - 16

Ordering data

Description	Type	Order No.	Pcs. / Pkt.
Spring-cage socket strip, type D, 32-position, fully equipped in series **a + c**, one 1.5 mm² spring-cage connection per position	**FRONT-ZFL 1,5/D32**	**2201632**	10

Accessories

Test plug, consisting of 1 mm Ø test pin, conductor length 150 mm and socket Ø 2 mm	**MPS-MT 1-S**	**1944372**	1
Screwdriver Blade: 0,6 x 3.5 x 100 mm, length: 181 mm	**SZF 1-0,6X3,5**	**1204517**	10



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Screw-type socket strips FRONT-SFL 2,5/...

The FRONT-SFL 2,5 socket strips with a screw connection at the rear are suitable for use in 19" racks. They are available in designs D32 or F32 and F48 in accordance with IEC 60603-2/DIN 41612.

The screw connections, which can be operated from the front, are designed for a connection cross section of 2.5 mm² per position and integrated into the compact housing (3 x pitch per line) in a practical way. The partially gold-plated contact springs conform to requirement category 3 in acc. with IEC 60603-2/DIN 41612

The asymmetrical design of the socket part ensures optimum use of the space on the printed circuit board and allows the strips to be aligned directly in the rack without gaps.

Each terminal block is marked according to the standard. Individual labeling is possible using the self-adhesive strips SK 5.



32-pos., type D, equipped in rows a and c



48-pos., type F, equipped in rows z, b, and d



32-pos., type F, equipped in rows z and b

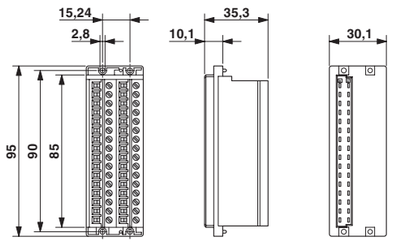


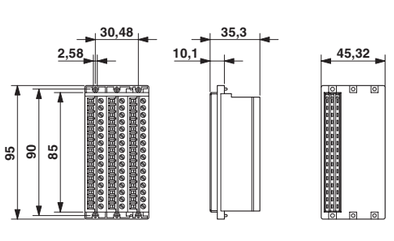
32-pos., type F, equipped in rows z and d

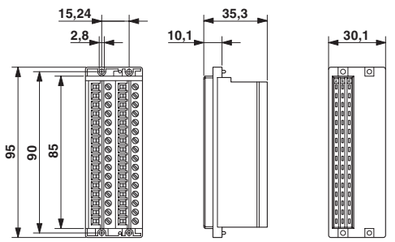
Technical data				
General data				
Voltage	250 V	250 V	250 V	250 V
Current	4 A	4 A	4 A	4 A
Stripping length	10 mm	10 mm	10 mm	10 mm
Screw thread	M2,5	M2,5	M2,5	M2,5
Torque	0.4 Nm ... 0.5 Nm	0.4 Nm ... 0.5 Nm	0.4 Nm ... 0.5 Nm	0.4 Nm ... 0.5 Nm
Connection data solid / stranded / AWG	0.2 ... 4 mm² / 0.2 ... 2.5 mm² / 24 - 12	0.2 ... 4 mm² / 0.2 ... 2.5 mm² / 24 - 12	0.2 ... 4 mm² / 0.2 ... 2.5 mm² / 24 - 12	0.2 ... 4 mm² / 0.2 ... 2.5 mm² / 24 - 12
Insulation material	PA	PA	PA	PA
Inflammability class in acc. with UL 94	V2	V2	V2	V2
Temperature indices (RTI/TI)	120/100	120/100	120/100	120/100
Certification data				
UL [V] / [A] / AWG	250 / 4 / 30 - 12	250 / 4 / 30 - 12	250 / 4 / 30 - 12	250 / 4 / 30 - 12

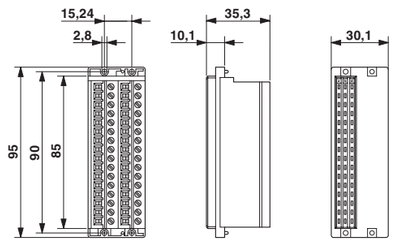
Ordering data

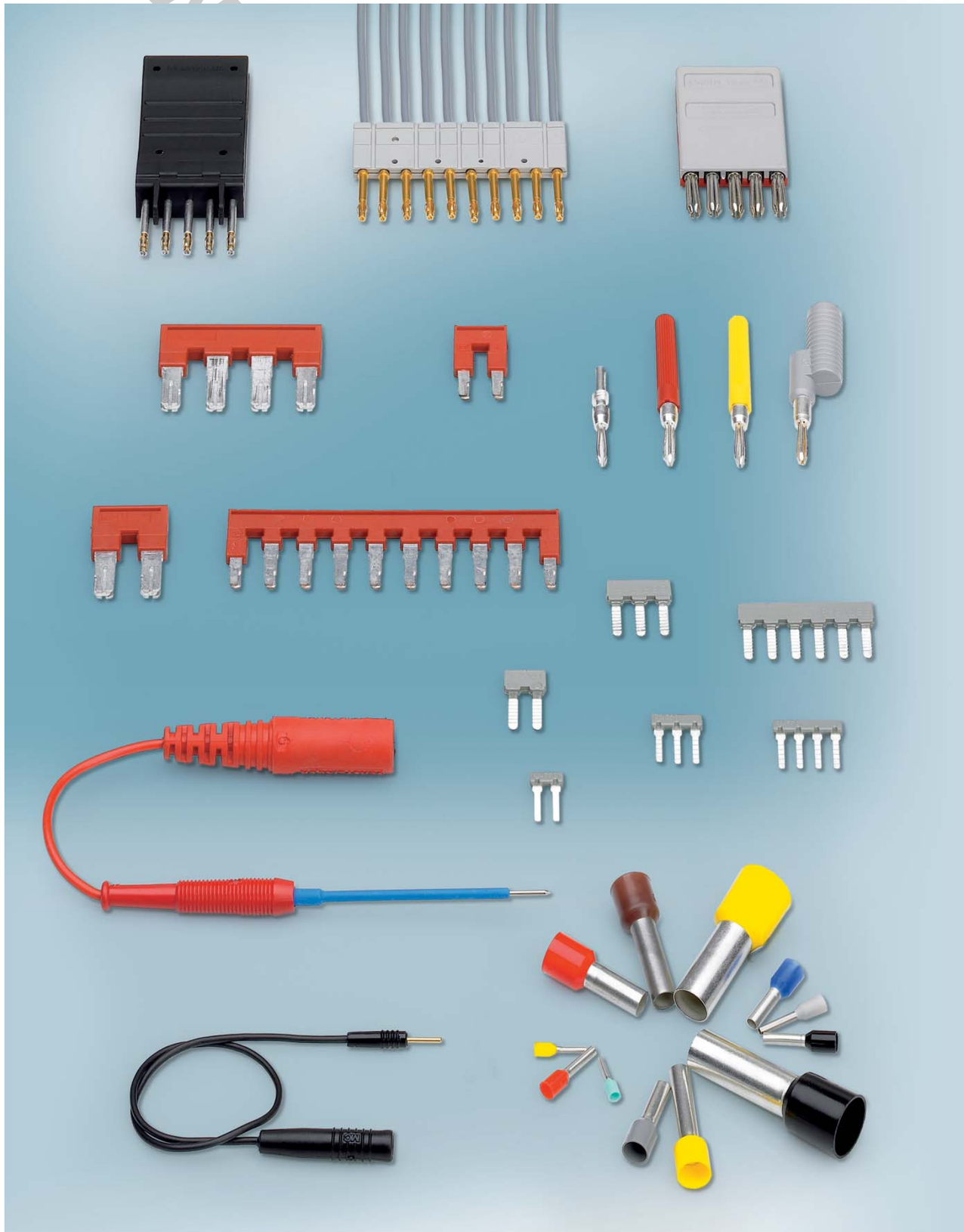
Description	Type	Order No.	Pcs. / Pkt.
Screw-type socket strip, type D, 32-position, fully equipped in rows **a + c**, with standardized marking on both connection sides, one 2.5 mm ² screw connection per position	**FRONT-SFL 2,5/D32**	**2285593**	10
Screw-type socket strip, type F, 48-position, fully equipped in rows **z, b + d,** one 2.5 mm² screw connection per position	**FRONT-SFL 2,5/F48**	**2285603**	10
Screw-type socket strip, type F, 32-position, partially equipped in rows **z + b**, one 2.5 mm² screw connection per position	**FRONT-SFL 2,5/F32/ZB**	**2285577**	10
Screw-type socket strip, type F, 32-position, partially equipped in rows **z + d**, one 2.5 mm² screw connection per position	**FRONT-SFL 2,5/F32/ZD**	**2285580**	10











Marking material, tool, test plug

A comprehensive range of accessories is available for COMBICON PCB terminal blocks and plug-in connectors.

Test plug
Single and multi-position test plugs with spring-loaded lamellar contact enable easy and safe contacting of COMBICON connectors and PCB terminal blocks with a test connection.

Insertion bridges and fixed bridges
Bridges enable potential distribution to several terminal points or complete a circuit for testing purposes.

SK marking strips
10-section marker strips are used for the consecutive numbering of PCB terminal blocks and plug-in connectors. The self-adhesive strips are arranged in several rows on a handy card and are available in all corresponding pitches.

Tools
Press-in stamp sets are available for the correct mounting of press-in pin strips.
Other tools for using PCB terminal blocks and plug-in connectors as well as for crimping ferrules and crimp contacts can be found under the accessories listed on the relevant product pages.

General	**794**
SK marker cards	**796**
ZB/ZBF zack marker strips	**804**
Device marking	**808**
Conductor and cable marking	**818**
Printers	**820**
Press-in devices	**826**
Crimp inserts	**827**
Pull-out aids for crimp connectors	**828**
Insertion bridges	**829**
Fixed bridges	**830**
Test plug	**832**
Ferrules	**834**
Mounting flanges	**836**
MSTB keying tab	**837**
FLRP/ICV pair of guide rails	**837**
FKC pull-out aid	**837**
Dimensional drawings	**838**



Marking solutions for electronics and device production

Phoenix Contact offers marking solutions that are tailored to your requirements for clear component identification and consistent traceability in the production process.

We offer materials and printing systems that are customized to the meet the specific challenges encountered when marking
– PCBs
– Housings
– PCB terminal blocks and plug-in connectors
– Conductors and cables

The complete marking portfolio for electronics and device production

The data for producing the markings is sent to the relevant printer by the CLIP PROJECT marking software which is supplied as standard. Quick and easy manual data entry or user-friendly transfer from CAE systems, spreadsheet programs, and word processing programs is supported.

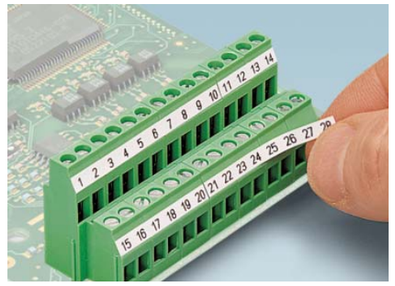
If you are unable to find the appropriate markers for your application in the following catalog part, please visit our e-shop or contact us directly.

In order to handle peaks in demand, for example, you can also order materials ready printed from Phoenix Contact. To do this, use the ordering option in CLIP PROJECT or order via the e-shop.



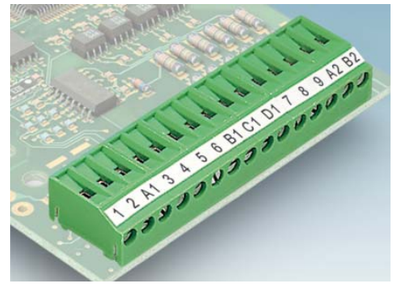
High resistance

– High-quality marking materials guarantee high resistance to aggressive media and thereby ensure clear and permanent legibility



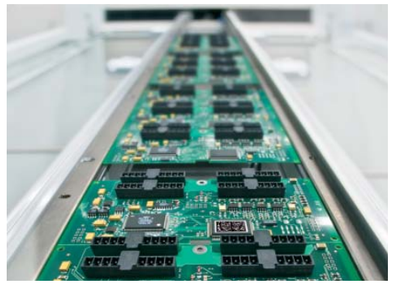
Marking after installation

Unprinted PCB terminal blocks can be marked quickly and clearly even after they have been installed using TML and SK marking strips.



Individual marking

Even very specific marking requirements such as special characters can be met with ease.



Reliable marking

Labels that are resistant to high temperatures ensure reliable marking of components and PCBs during the production process and beyond.



Protection against static discharge

ESD-safe labels can be used to mark components and PCBs that are at risk from electrostatic discharge.



Protection against tampering

As these rating plates clearly show attempts at tampering, they cannot be reused.



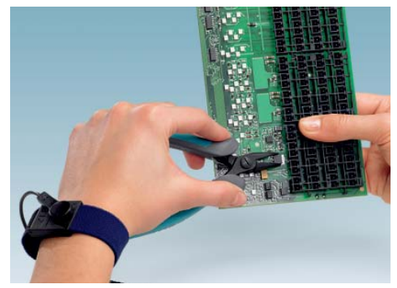
Versatile use

With self-laminating labels, both round and flat-ribbon cables can be marked clearly and without abrasion. The portfolio includes various other conductor markings.



Easy and universal

The THERMOMARK printing systems together with the CLIP PROJECT software offer custom marking options for your production process. Excellent printing quality and optimum printing accuracy increase device acceptance among users.

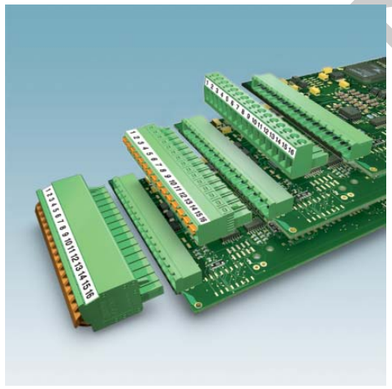


ESD safe

MICROFOX …ESD pliers are suitable for working on sensitive components, as the electrostatic energy is discharged safely by the special grip material.

Wydruk z www.

Self-adhesive marker strips for terminal blocks without a marker groove



- The SK range of self-adhesive labels can be used to label products that do not feature a marker groove
- The markers that are supplied on rolls can be quickly and cost-effectively labeled using THERMOMARK printers
- The markers that are supplied as cards can be easily labeled using standard laser printers
- Ideal for labeling COMBICON connectors
- Labeling service: Phoenix Contact can custom-label SK markers in accordance with your requirements



Markers labeled with 2.54 mm pitch

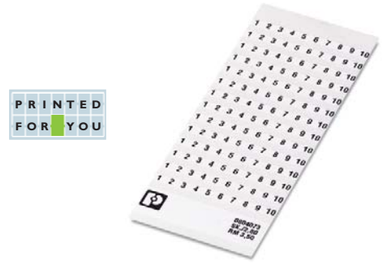
Technical data

General data

Material		Polyester
Temperature range	[°C]	-40 ... 150
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)
Components		free from silicone and halogen

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Marker card, printed horizontally, self-adhesive, 10-section marking stripes, 14 identical decades marked with 1-10, 11-20, etc. up to 91-100, adequate for 140 terminal blocks (SK 2,54...-SK 3,81...max 2 characters per terminal)	white	SK 2,54/2,8:FORTL.ZAHLEN	0804853	10
Marker card, self-adhesive, marked according to customer specifications, 14-section marker strips, max. 25-pos. marking (SK...P2,54 to SK...P3,81 max. 2 characters per pos.)	white	SK 2,8 REEL P2,54 WH CUS	0825120	1
Marker card, unprinted, DIN A4 format, pitch as desired, self-adhesive, with 50 perforated marker strips, strip length of 185 mm	white	SK U/2,8 WH:UNBEDRUCKT	0803883	10
Self-adhesive marker strips, unprinted, continuous, material off the roll, for marking with thermal transfer printer, can be separated using cutter, pitch as desired, strip length of up to 1000 mm, 14 strips, strip height of 2.8 mm, 1 roll = 90 m	white	SK 2,8 WH:REEL	0805205	1



Markers labeled with 3.5 mm pitch

Technical data

Polyester
-40 ... 150
DIN EN 61010-1 (VDE 0411-1)
free from silicone and halogen

Ordering data

Type	Order No.	Pcs. / Pkt.
SK 3,5/2,8:FORTL.ZAHLEN	0804073	10
SK 2,8 REEL P3,5 WH CUS	0825121	1
SK U/2,8 WH:UNBEDRUCKT	0803883	10
SK 2,8 WH:REEL	0805205	1



Markers labeled with 3.81 mm pitch

Technical data

Polyester
-40 ... 150
DIN EN 61010-1 (VDE 0411-1)
free from silicone and halogen

Ordering data

Type	Order No.	Pcs. / Pkt.
SK 3,81/2,8:FORTL.ZAHLEN	0804109	10
SK 2,8 REEL P3,81 WH CUS	0825122	1
SK U/2,8 WH:UNBEDRUCKT	0803883	10
SK 2,8 WH:REEL	0805205	1



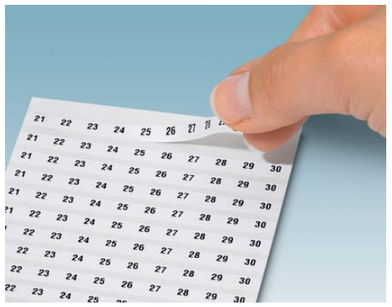
Markers labeled with 5.08 mm pitch

Technical data

Polyester
-40 ... 150
DIN EN 61010-1 (VDE 0411-1)
free from silicone and halogen

Ordering data

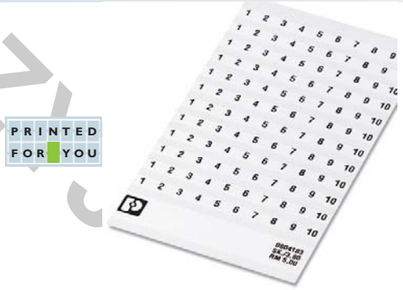
Type	Order No.	Pcs. / Pkt.
SK 5,08/2,8:FORTL.ZAHLEN	0804280	10
SK 2,8 REEL P5,08 WH CUS	0825123	1
SK U/2,8 WH:UNBEDRUCKT	0803883	10
SK 2,8 WH:REEL	0805205	1



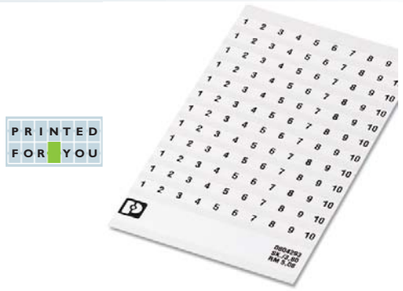
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Self-adhesive marker strips for terminal blocks without a marker groove

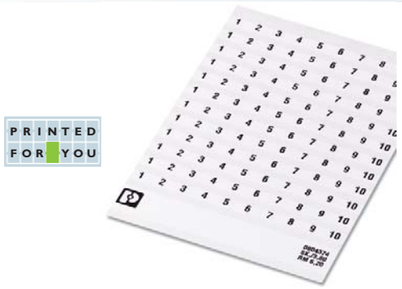
- The SK range of self-adhesive labels can be used to label products that do not feature a marker groove
- Labeling service: Phoenix Contact can custom-label SK markers in accordance with your requirements



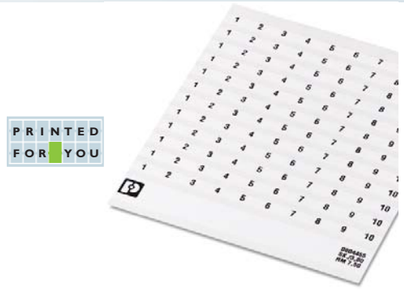
Markers labeled with 5 mm pitch



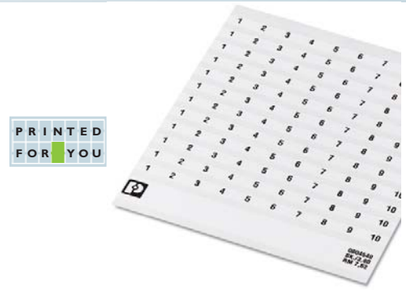
Markers labeled with 5.08 mm pitch



Markers labeled with 6.2 mm pitch



Markers labeled with 7.5 mm pitch



Markers labeled with 7.62 mm pitch

Technical data

General data

Material		Polyester
Temperature range	[°C]	-40 ... 150
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)
Components		free from silicone and halogen

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Marker card, printed horizontally, self-adhesive, 10-section marker strip, 12 identical decades marked, for example, with 1-10, 11-20 etc. up to 91-100, sufficient for 120 terminal blocks	white	SK 5/3,8:FORTL.ZAHLEN	0804183	10
Marker card, self-adhesive, marked according to customer specifications, 12-section marker strips, max. 25-pos. marking per strip	white	SK 3,8 REEL P5 WH CUS	0825124	1
Marker card, unprinted, DIN A4 format, pitch as desired, self-adhesive, with 40 perforated marker strips, strip length of 185 mm	white	SK U/3,8 WH:UNBEDRUCKT	0803906	10
Self-adhesive marker strips, unprinted, continuous, material off the roll, for marking with thermal transfer printer, can be separated using cutter, pitch as desired, strip length of up to 1000 mm, 12 strips, strip height of 3.8 mm, 1 roll = 90 m	white	SK 3,8 WH:REEL	0805218	1

Technical data

General data

Material		Polyester
Temperature range	[°C]	-40 ... 150
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)
Components		free from silicone and halogen

Ordering data

Type	Order No.	Pcs. / Pkt.
SK 5,08/3,8:FORTL.ZAHLEN	0804293	10
SK 3,8 REEL P5,08 WH CUS	0825125	1
SK U/3,8 WH:UNBEDRUCKT	0803906	10
SK 3,8 WH:REEL	0805218	1

Technical data

General data

Material		Polyester
Temperature range	[°C]	-40 ... 150
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)
Components		free from silicone and halogen

Ordering data

Type	Order No.	Pcs. / Pkt.
SK 6,2/3,8:FORTL.ZAHLEN	0804374	10
SK 3,8 REEL P6,2 WH CUS	0825126	1
SK U/3,8 WH:UNBEDRUCKT	0803906	10
SK 3,8 WH:REEL	0805218	1

Technical data

General data

Material		Polyester
Temperature range	[°C]	-40 ... 150
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)
Components		free from silicone and halogen

Ordering data

Type	Order No.	Pcs. / Pkt.
SK 7,5/3,8:FORTL.ZAHLEN	0804455	10
SK 3,8 REEL P7,5 WH CUS	0825127	1
SK U/3,8 WH:UNBEDRUCKT	0803906	10
SK 3,8 WH:REEL	0805218	1

Technical data

General data

Material		Polyester
Temperature range	[°C]	-40 ... 150
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)
Components		free from silicone and halogen

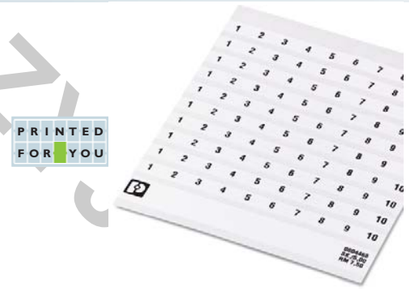
Ordering data

Type	Order No.	Pcs. / Pkt.
SK 7,62/3,8:FORTL.ZAHLEN	0804549	10
SK 3,8 REEL P7,62 WH CUS	0825128	1
SK U/3,8 WH:UNBEDRUCKT	0803906	10
SK 3,8 WH:REEL	0805218	1

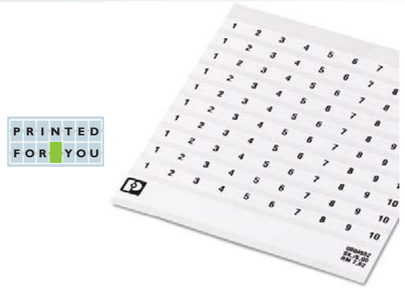
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Self-adhesive marker strips for terminal blocks without a marker groove

- The SK range of self-adhesive labels can be used to label products that do not feature a marker groove
- Labeling service: Phoenix Contact can custom-label all TMT markers in accordance with your requirements



Markers labeled with 7.5 mm pitch



Markers labeled with 7.62 mm pitch

	Technical data	Technical data
General data		
Material	Polyester	Polyester
Temperature range [°C]	-40 ... 150	-40 ... 150
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)	DIN EN 61010-1 (VDE 0411-1)
Components	free from silicone and halogen	free from silicone and halogen

		Ordering data			Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Marker card, printed horizontally, self-adhesive, 10-section marker strip, 10 identical decades marked 1-10, 11-20 etc. up to 91-100, for example, sufficient for 100 terminal blocks	white	SK 7,5/5:FORTL.ZAHLEN	0804468	10	SK 7,62/5:FORTL.ZAHLEN	0804552	10
Marker card, self-adhesive, marked according to customer specifications, 10-section marker strips, max. 25-pos. marking per strip	white	SK 5,0 REEL P7,5 WH CUS	0825131	1	SK 5,0 REEL P7,62 WH CUS	0825132	1
Marker card, unprinted, DIN A4 format, pitch as desired, self-adhesive, with 35 perforated marker strips, strip length of 185 mm	white	SK U/5,0 WH:UNBEDRUCKT	0803922	10	SK U/5,0 WH:UNBEDRUCKT	0803922	10
Self-adhesive marker strips, unprinted, continuous, material off the roll, for marking with thermal transfer printer, can be separated using cutter, pitch as desired, strip length of up to 1000 mm, 10 strips, strip height of 5.0 mm, 1 roll = 90 m	white	SK 5,0 WH:REEL	0805221	1	SK 5,0 WH:REEL	0805221	1

Self-adhesive marker strips for terminal blocks without a marker groove



Markers with a strip length of up to 1000 mm



Markers with a strip length of up to 185 mm

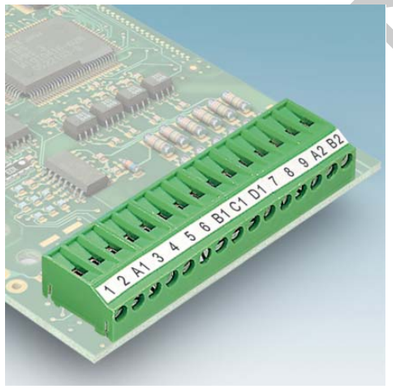
	Technical data	Technical data
General data		
Can be printed with:	THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1	CMS-P1-PLOTTER • Office printing systems
Material	Polyester	Polyester
Temperature range [°C]	-40 ... 150	-40 ... 150
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)	DIN EN 61010-1 (VDE 0411-1)
Components	free from silicone and halogen	free from silicone and halogen

		Ordering data			Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Self-adhesive marker strips, unprinted, continuous, material off the roll, for marking with thermal transfer printer, can be separated using cutter, pitch as desired, strip length of up to 1000 mm, 14 strips, strip height of 2.8 mm, 1 roll = 90 m	white	SK 2,8 WH:REEL	0805205	1			
Self-adhesive marker strips, unprinted, continuous, material off the roll, for marking with thermal transfer printer, can be separated using cutter, pitch as desired, strip length of up to 1000 mm, 12 strips, strip height of 3.8 mm, 1 roll = 90 m	white	SK 3,8 WH:REEL	0805218	1			
Self-adhesive marker strips, unprinted, continuous, material off the roll, for marking with thermal transfer printer, can be separated using cutter, pitch as desired, strip length of up to 1000 mm, 10 strips, strip height of 5.0 mm, 1 roll = 90 m	white	SK 5,0 WH:REEL	0805221	1			
Self-adhesive marker strips, unprinted, continuous, material off the roll, for marking with thermal transfer printer, can be separated using cutter, pitch as desired, strip length of up to 1000 mm, 7 strips, strip height of 10 mm, 1 roll = 90 m	white	SK 10,0 WH:REEL	0812188	1			
Marker card, unprinted, DIN A4 format, pitch as desired, self-adhesive, with 50 perforated marker strips, strip length of 185 mm	white				SK U/2,8 WH:UNBEDRUCKT	0803883	10
Marker card, unprinted, DIN A4 format, pitch as desired, self-adhesive, with 40 perforated marker strips, strip length of 185 mm	white				SK U/3,8 WH:UNBEDRUCKT	0803906	10
Marker card, unprinted, DIN A4 format, pitch as desired, self-adhesive, with 35 perforated marker strips, strip length of 185 mm	white				SK U/5,0 WH:UNBEDRUCKT	0803922	10

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Self-adhesive marker strips for terminal blocks without a marker groove

N



Thermal transfer for rolls



Unlabeled

– The TML marking range offers self-adhesive marker strips for marking products that do not have a marker groove

Technical data

General data

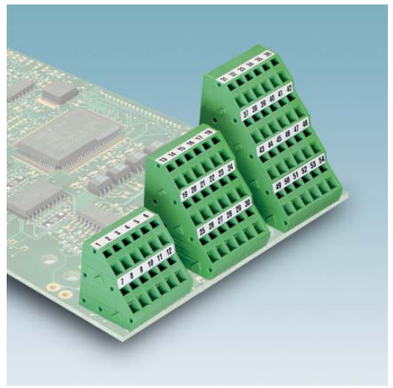
Can be printed with:		THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1
Number of individual labels per strip		1
Material		Polyester
Temperature range	[°C]	-40 ... 150
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)
Components		free from silicone and halogen

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Self-adhesive marker strips, unprinted				
1 roll = 2500 strips, lettering field size: 104 x 2.8 mm	white	**TML (104X2,8)R**	**0801832**	1
1 roll = 2500 strips, lettering field size: 104 x 3.8 mm	white	**TML (104X3,8)R**	**0801833**	1
1 roll = 2500 strips, lettering field size: 104 x 5 mm	white	**TML (104X5)R**	**0801834**	1
1 roll = 1500 strips, lettering field size: 104 x 10 mm	white	**TML (104X10)R**	**0801835**	1

Self-adhesive marker strips for terminal blocks without marker groove, continuous

N



Thermal transfer for rolls



Unlabeled

– The TML marking range offers self-adhesive marker strips for marking products that do not have a marker groove
– The marker strips are automatically perforated or cut to the required length during the printing process

Technical data

General data

Can be printed with:		THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1
Number of individual labels per strip		14
Material		Polyester
Temperature range	[°C]	-40 ... 150
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)
Components		free from silicone and halogen

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Self-adhesive marker strips, unprinted, continuous				
1 roll = 30 m continuous, strip height: 2.8 mm	white	**TML (EX2,8)R**	**0801836**	1
1 roll = 30 m continuous, strip height: 3.8 mm	white	**TML (EX3,8)R**	**0801837**	1
1 roll = 30 m continuous, strip height: 5 mm	white	**TML (EX5)R**	**0801838**	1
1 roll = 30 m continuous, strip height: 7 mm	white	**TML (EX7)R**	**0830837**	1
1 roll = 30 m continuous, strip height: 10 mm	white	**TML (EX10)R**	**0801839**	1

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Zack marker strip terminal marking for a vertical marker groove

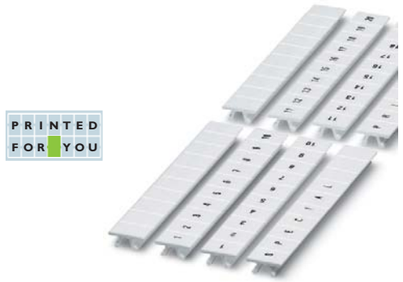
– The ZB zack marker strip system is a labeling solution for modular terminal blocks and electronic modules with vertical marker grooves
– Labeling service: Phoenix Contact can custom-label all zack marker strip markers in accordance with your requirements



Plotter

Notes:

¹) **10 identically marked** strips make up one packing unit (PU).



Markers for a terminal block width of 7.5 mm

Technical data

General data

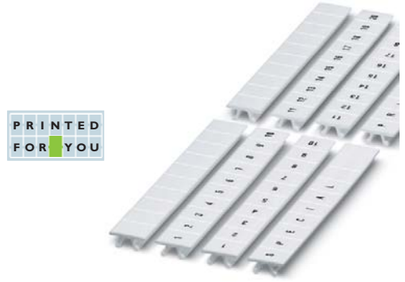
Can be printed with:		CMS-P1-PLOTTER
Material		PA
Inflammability class according to UL 94		V2
Temperature range	[°C]	-40 ... 100
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)
Components		free from silicone and halogen

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Zack marker strip, 10-section, unprinted: pack contains enough to label 100 terminal blocks	white	**ZB 7,5:UNBEDRUCKT**	**0803948**	10
as above, however, large batch, sufficient for 1000 terminal blocks	white			
Zack marker strip, printed horizontally, 10-section, with consecutive numbers, e.g. 1-10, 11-20, etc. up to 91-100¹)	white			
Zack marker strip, printed horizontally, 10-section, with same numbers, e.g. 1/1/1, 2/2/2, etc. up to 100/100/100¹)	white			
Zack marker strip, 10-section, printed horizontally: with L1, L2, L3, N, PE¹)	white			
U, V, W, N, ⏚	white			
Zack marker strip, printed vertically, 10-section, with consecutive numbers, e.g. 1-10, 11-20, etc. up to 91-100¹)	white			
Zack marker strip, special printing, 10-section, divisible, marking according to customer requirements, please specify the desired marking with order	white	**ZB 7,5 CUS**	**0824994**	1

Accessories

Marker pen, refillable, for manual labeling, 0.35 mm line thickness, can be refilled with CMS–INK–TR–C 5, delivered without ink	**X-PEN 0,35**	**0811228**	1
Magazine, for CMS-P1-PLOTTER	**CMS-P1-M/ZB**	**5144699**	1



Markers for a terminal block width of 7.62 mm

Technical data

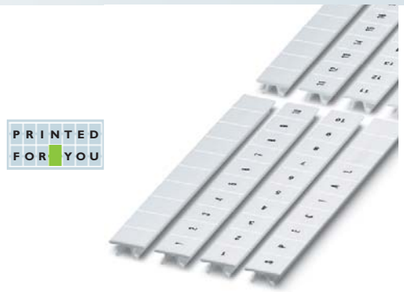
CMS-P1-PLOTTER	
PA	
V2	
-40 ... 100	
DIN EN 61010-1 (VDE 0411-1)	
free from silicone and halogen	

Ordering data

Type	Order No.	Pcs. / Pkt.
ZB 7,62:UNBEDRUCKT	**1054000**	10
ZB 7,62/WH-100:UNBEDRUCKT	**5060922**	100
ZB 7,62,LGS:FORTL.ZAHLEN	**1054233**	10
ZB 7,62 CUS	**0824997**	1

Accessories

X-PEN 0,35	**0811228**	1
CMS-P1-M/ZB	**5144699**	1



Markers for a terminal block width of 10.2 mm

Technical data

CMS-P1-PLOTTER	
PA	
V2	
-40 ... 100	
DIN EN 61010-1 (VDE 0411-1)	
free from silicone and halogen	

Ordering data

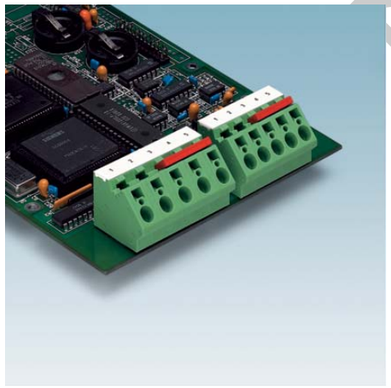
Type	Order No.	Pcs. / Pkt.
ZB 10:UNBEDRUCKT	**1053001**	10
ZB10/WH-100:UNBEDRUCKT	**5060883**	100
ZB10,LGS:FORTL.ZAHLEN	**1053014**	10
ZB10,LGS:GLEICHE ZAHLEN	**1053030**	10
ZB10,LGS:L1-N,PE	**1053412**	10
ZB10,LGS:U-N	**1053438**	10
ZB10,QR:FORTL.ZAHLEN	**1053027**	10
ZB 10 CUS	**0824941**	1

Accessories

X-PEN 0,35	**0811228**	1
CMS-P1-M/ZB	**5144699**	1

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Terminal block and module marking with flat Zack marker strip



Plotter

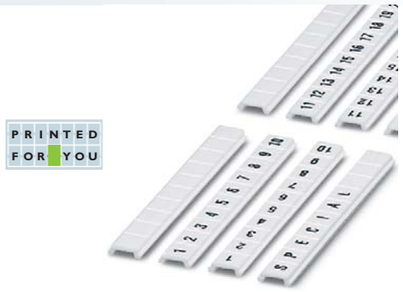
The ZBF flat Zack marker strip is designed for marking terminal blocks, equipment and smaller modules with Phoenix Contact marker grooves.

The flat Zack marker strip is available in all common pitches as labeled or unlabeled versions.

Further pitches and labelings are possible on request.

Notes:

[1]) **10 identically marked** strips make up one packing unit (PU).



Markers for a terminal block width of 5.2 mm

Technical data

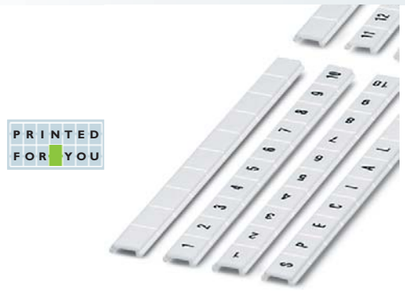
General data		
Can be printed with:		CMS-P1-PLOTTER
Material		PA
Inflammability class according to UL 94		V2
Temperature range	[°C]	-40 ... 100
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)
Components		free from silicone and halogen

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Zack flat marker strip, 10-section, unprinted: for individual labeling with TML (101X4,2)R TR, X–PEN or CMS–P1– PLOTTER, sufficient for labeling 100 terminal blocks per pack	white	ZBF 5:UNBEDRUCKT	0808642	10
	white	ZBF 5/WH-100:UNBEDRUCKT	0808668	100
Flat Zack marker strip, 10-section, printed horizontally: with consecutive numbers, e.g. 1–10, 11–20, etc. up to 91–100[1])	white	ZBF 5,LGS:FORTL.ZAHLEN	0808671	10
Zack marker strip, flat, printed horizontally, 10-section, with even numbers, e.g. 2-20, 22-40, etc. up to 82-100[1])	white	ZBF 5,LGS:GERADE ZAHLEN	0810821	10
Zack marker strip, flat, printed horizontally, 10-section, with odd numbers, e.g. 1-19, 21-39, etc. up to 81-99[1])	white	ZBF 5,LGS:UNGERADE ZAHLEN	0810863	10
Zack marker strip, flat, printed vertically, 10-section, with consecutive numbers, e.g. 1-10, 11-20, etc. up to 91-100[1])	white	ZBF 5,QR:FORTL.ZAHLEN	0808697	10
Zack marker strip, flat, special printing, 10-section, divisible, marking according to customer requirements, please specify the desired marking with order	white	ZBF 5 CUS	0825025	1

Accessories

	Type	Order No.	Pcs. / Pkt.
Marker pen, refillable, for manual labeling, 0.35 mm line thickness, can be refilled with CMS–INK–TR–C 5, delivered without ink	X-PEN 0,35	0811228	1
Magazine, for CMS-P1-PLOTTER	CMS-P1-M/ZBF	5144709	1



Markers for a terminal block width of 7.5 mm

Technical data

	CMS-P1-PLOTTER
	PA
	V2
	-40 ... 100
	DIN EN 61010-1 (VDE 0411-1)
	free from silicone and halogen

Ordering data

Type	Order No.	Pcs. / Pkt.
ZBF 7,5:UNBEDRUCKT	0809942	10
ZBF 7,5,LGS:FORTL.ZAHLEN	0809955	10
ZBF 7,5,QR:FORTL.ZAHLEN	0809968	10
ZBF 7,5 CUS	0825028	1

Accessories

Type	Order No.	Pcs. / Pkt.
X-PEN 0,35	0811228	1
CMS-P1-M/ZBF	5144709	1



Markers for a terminal block width of 10.2 mm

Technical data

	CMS-P1-PLOTTER
	PA
	V2
	-40 ... 100
	DIN EN 61010-1 (VDE 0411-1)
	free from silicone and halogen

Ordering data

Type	Order No.	Pcs. / Pkt.
ZBF10:UNBEDRUCKT	0809997	10
ZBF10,LGS:FORTL.ZAHLEN	0810009	10
ZBF10,QR:FORTL.ZAHLEN	0810025	10
ZBF10 CUS	0825031	1

Accessories

Type	Order No.	Pcs. / Pkt.
X-PEN 0,35	0811228	1
CMS-P1-M/ZBF	5144709	1



Markers for a terminal block width of 15 mm

Technical data

	CMS-P1-PLOTTER
	PA
	V2
	-40 ... 100
	DIN EN 61010-1 (VDE 0411-1)
	free from silicone and halogen

Ordering data

Type	Order No.	Pcs. / Pkt.
ZBF 15:UNBEDRUCKT	0811202	10
ZBF 15 CUS	0825019	1

Accessories

Type	Order No.	Pcs. / Pkt.
X-PEN 0,35	0811228	1
CMS-P1-M/ZBF	5144709	1

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Stick-on device marking



- EML ... self-adhesive device markers have been specially developed to allow the marking of various types of operating equipment in control, system, and control cabinet engineering applications
- Precise printing quality and good adhesive properties
- If high-quality ink ribbons are used, the labeling is resistant to solvents, making it suitable for use even under harsh industrial conditions
- A wide range of marker sizes and colors are available for custom designs
- The special packaging protects rolls that have already been started from the dirt found in industrial environments
- The EML ... materials are UL-listed
- **Designation example:**
  EML (10X4)R…
  Lettering field size: 10 x 4 mm
  Type of packaging: roll

Notes:

The THERMOMARK ROLL–ERH external media hub is required for RL rolls, see under “Printers” on page 820.

For additional label sizes, see the product area on our website at **www.phoenixcontact.net/products**

Can be printed with:



Thermal transfer for rolls



Unlabeled, white



Unlabeled, yellow



Unlabeled, silver

Technical data

General data			
Can be printed with:		THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1	
Material		Polyester	
Temperature range	[°C]	-40 ... 150	
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)	
Components		free from silicone and halogen	

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Labels				
10,000 labels p. roll		**EML (10X4)R**	**0815583**	1
10,000 labels p. roll		**EML (10X7)R**	**0816663**	1
2500 labels per roll				
2500 labels per roll		**EML (15X9)R**	**0815677**	1
2500 labels per roll		**EML (16,5X5)R**	**0816702**	1
10,000 labels p. roll		**EML (16X7)R**	**0818001**	1
2500 labels per roll		**EML (17,5X8)R**	**0816744**	1
2500 labels per roll		**EML (19X6)R**	**0816760**	1
2500 labels per roll				
2500 labels per roll		**EML (20X8)R**	**0816786**	1
2500 labels per roll				
2500 labels per roll		**EML (25,4X12,7)R**	**0816825**	1
2500 labels per roll				
2500 labels per roll				
2500 labels per roll				
2500 labels per roll				
1000 labels p. roll				
2500 labels per roll		**EML (30X20)R**	**0816922**	1
2500 labels per roll		**EML (38X17)R**	**0816951**	1
1000 labels p. roll		**EML (40X8)R**	**0816980**	1
1000 labels p. roll				
1000 labels p. roll		**EML (40X25)R**	**0818027**	1
1000 labels p. roll		**EML (51X25)R**	**0817028**	1
1000 labels p. roll		**EML (70X32)R**	**0817060**	1
400 labels p. roll		**EML (70X50)R**	**0817099**	1
2500 labels per roll		**EML (90X5)R**	**0817109**	1
300 labels p. roll		**EML (100X40)R**	**0800286**	1
300 labels p. roll		**EML (100X73)R**	**0817125**	1
250 labels p. roll		**EML (100X90)R**	**0817154**	1
Labels, on large roll				
10,000 labels p. roll		**EML (16,5X5)RL**	**0816113**	1
10,000 labels p. roll				
10,000 labels p. roll		**EML (25,4X12,7)RL**	**0816087**	1
10,000 labels p. roll		**EML (38,1X19)RL**	**0816171**	1
3000 labels p. roll		**EML (50,8X25,4)RL**	**0816184**	1
3000 labels p. roll		**EML (69,8X31,8)RL**	**0816197**	1
2500 labels per roll				
1000 labels p. roll				
Labels, round, 17.5 mm diameter				
2500 labels per roll	white	**EML (D17,5)R**	**0815774**	1
Continuous labels, on large roll				
Width: 37 mm, length: 90 m	transparent	**EML (37XE)RL TR**	**0815716**	1
Continuous labels, on large roll, length: 90 m				
Width: 100 mm, length: 90 m				

Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1	
Polyester	
-40 ... 150	
DIN EN 61010-1 (VDE 0411-1)	
free from silicone and halogen	

Ordering data

Type	Order No.	Pcs. / Pkt.
EML (10X7)R YE	**0816676**	1
EML (15X6) R YE	**0819288**	1
EML (15X9)R YE	**0816045**	1
EML (16,5X5)R YE	**0816728**	1
EML (16X7)R YE	**0816731**	1
EML (17,5X8)R YE	**0816757**	1
EML (20X7)R YE	**0816773**	1
EML (20X8)R YE	**0816799**	1
EML (25,4X12,7)R YE	**0816838**	1
EML (26,5X17,5)R YE	**0816896**	1
EML (30X20)R YE	**0816935**	1
EML (40X25)R YE	**0816977**	1
EML (51X25)R YE	**0817031**	1
EML (70X32)R YE	**0817073**	1
EML (100X73)R YE	**0817138**	1
EML (16,5X5)RL YE	**0816126**	1
EML (17,5X8)RL YE	**0816139**	1
EML (18X7)RL YE	**0802733**	1
EML (76,2X6,5)RL YE	**0816207**	1

Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1	
Polyester	
-40 ... 150	
DIN EN 61010-1 (VDE 0411-1)	
free from silicone and halogen	

Ordering data

Type	Order No.	Pcs. / Pkt.
EML (15X9)R SR	**0816032**	1
EML (21,5X21,5)R SR	**0816812**	1
EML (26,5X7,5)R SR	**0816841**	1
EML (26,5X12)R SR	**0816854**	1
EML (26,5X17,5)R SR	**0816883**	1
EML (26,5X18,5)R SR	**0816906**	1
EML (26,5X26,5)R SR	**0816919**	1
EML (40X15)R SR	**0815729**	1
EML (51X25)R SR	**0817002**	1
EML (70X32)R SR	**0817057**	1
EML (70X50)R SR	**0817086**	1
EML (100X40)R SR	**0802697**	1
EML (100X73)R SR	**0817112**	1
EML (100X90)R SR	**0817141**	1
EML (101,6X25,4)RL SR	**0815790**	1
EML (100XE)RL SR	**0815787**	1

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Stick-on device marking, for high-temperature applications



- White polyimide labels with high level of temperature resistance
- Continuous temperature range of -40°C to +180°C, up to +300°C temporarily, for up to 60 seconds
- For marking PCBs, can be used in all industrial soldering processes
- High weathering and chemical resistance
- The labeling material is UL listed
- Protection against tampering: the labels cannot be removed without disintegrating
- **Designation example:**
  EML-HT (8x8)R
  Lettering field size: 8 x 8 mm
  Type of packaging: roll
- Single-web large roll with 8000 or 10,000 labels (see figure below)

Notes:

The THERMOMARK–RIBBON 110–EML-HT ink ribbon is required for marking EM-LHT... high-temperature labels, see under “Printers”, page 821

If large rolls are processed with the THERMOMARK ROLL, the external THERMOMARK ROLL-ERH media hub must be used.



Can be printed with:



Thermal transfer for rolls



Unlabeled



Unlabeled, on large roll



Labeled according to customer specifications

Technical data

General data		
Can be printed with:		THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1
Material		Polyimide
Temperature range	[°C]	-40 ... 180
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)
Components		free from silicone and halogen

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
High-temperature labels				
4000 labels p. roll	white	**EML-HT (8X8)R**	**0800340**	1
4000 labels p. roll	white	**EML-HT (15X6)R**	**0830644**	1
4000 labels p. roll	white	**EML-HT (15X15)R**	**0800341**	1
4000 labels p. roll	white	**EML-HT (20X7)R**	**0830645**	1
4000 labels p. roll	white	**EML-HT (24X4)R**	**0830646**	1
4000 labels p. roll	white	**EML-HT (25X8)R**	**0830647**	1
2500 labels per roll	white	**EML-HT (25,4X12,7)R**	**0830648**	1
2500 labels per roll	white	**EML-HT (32X10)R**	**0830649**	1
2500 labels per roll	white	**EML-HT (35X6,5)R**	**0830650**	1
1000 labels p. roll	white	**EML-HT (40X15)R**	**0800339**	1
2500 labels per roll	white	**EML-HT (45X5)R**	**0800337**	1
1000 labels p. roll	white	**EML-HT (50X10)R**	**0800338**	1
1000 labels per roll, round, 12 mm diameter	white	**EML-HT (D12)R**	**0801376**	1
High-temperature labels, on large roll				
10,000 labels p. roll	white			
10,000 labels p. roll	white			
8000 labels per roll	white			
10,000 labels p. roll	white			
10,000 labels p. roll	white			
10,000 labels p. roll	white			
10,000 labels p. roll	white			
10,000 labels p. roll	white			
10,000 labels p. roll	white			
8000 labels per roll	white			
10,000 labels p. roll	white			
10,000 labels p. roll	white			
High-temperature label,labeled acc. to customer specifications				
4 labels per strip	white			
5 labels per strip	white			
4 labels per strip	white			
4 labels per strip	white			
2 labels per strip	white			
2 labels per strip	white			
3 labels per strip	white			
2 labels per strip	white			
2 labels per strip	white			
2 labels per strip	white			
4 labels per strip	white			
1 label per strip	white			

Accessories

Ink ribbon, specifically for high-temperature labels, EML-HT...				
	black	**THERMOMARK-RIBBON 110-EML-HT**	**0800342**	1

Technical data

		THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1
		Polyimide
		-40 ... 180
		DIN EN 61010-1 (VDE 0411-1)
		free from silicone and halogen

Ordering data

Type	Order No.	Pcs. / Pkt.
EML-HT (8X8)RL-T	**0830651**	1
EML-HT (15X6)RL-T	**0830652**	1
EML-HT (15X15)RL-T	**0830653**	1
EML-HT (20X7)RL-T	**0830654**	1
EML-HT (24X4)RL-T	**0830655**	1
EML-HT (25X8)RL-T	**0830656**	1
EML-HT (25,4X12,7)RL-T	**0830657**	1
EML-HT (32X10)RL-T	**0830658**	1
EML-HT (35X6,5)RL-T	**0830659**	1
EML-HT (40X15)RL-T	**0830660**	1
EML-HT (45X5)RL-T	**0830661**	1
EML-HT (50X10)RL-T	**0830662**	1

Accessories

THERMOMARK-RIBBON 110-EML-HT	**0800342**	1

Technical data

		-
		Polyimide
		-40 ... 180
		DIN EN 61010-1 (VDE 0411-1)
		free from silicone and halogen

Ordering data

Type	Order No.	Pcs. / Pkt.
EML-HT (8X8)R CUS	**0830169**	1
EML-HT (15X6)R CUS	**0830663**	1
EML-HT (15X15)R CUS	**0830170**	1
EML-HT (20X7)R CUS	**0830664**	1
EML-HT (24X4)R CUS	**0830665**	1
EML-HT (25X8)R CUS	**0830666**	1
EML-HT (25,4X12,7)R CUS	**0830667**	1
EML-HT (32X10)R CUS	**0830668**	1
EML-HT (35X6,5)R CUS	**0830669**	1
EML-HT (40X15)R CUS	**0830168**	1
EML-HT (45X5)R CUS	**0830166**	1
EML-HT (50X10)R CUS	**0830167**	1

Accessories

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Stick-on device marking, for ESD applications



- Safe marking for sensitive components on PCBs
- Static dissipative adhesive: prevents transmission of voltage and protects the component against electrostatic discharge
- Marking service: Phoenix Contact can custom-mark all EML-ESD ... markers according to your requirements
- **Designation example:**
  EML-ESD (8x8)R
  Lettering field size: 8 x 8 mm
  Type of packaging: roll

Notes:

If large rolls are processed with the THERMOMARK ROLL, the external THERMOMARK ROLL-ERH media hub must be used.

Can be printed with:



Thermal transfer for rolls

N



Unlabeled

Technical data

General data		
Can be printed with:		THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK S1.1 • THERMOMARK X1.1 • THERMOMARK X1.2
Material		Polyester
Temperature range	[°C]	-40 ... 150
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)
Components		free from silicone and halogen

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Device marking, roll				
4000 labels p. roll	white	**EML-ESD (8X8)R**	**0830564**	1
4000 labels p. roll	white	**EML-ESD (15X6)R**	**0830565**	1
4000 labels p. roll	white	**EML-ESD (15X15)R**	**0830566**	1
4000 labels p. roll	white	**EML-ESD (20X7)R**	**0830567**	1
4000 labels p. roll	white	**EML-ESD (24X4)R**	**0830568**	1
4000 labels p. roll	white	**EML-ESD (25X8)R**	**0830569**	1
2500 labels per roll	white	**EML-ESD (25,4X12,7)R**	**0830570**	1
2500 labels per roll	white	**EML-ESD (32X10)R**	**0830571**	1
2500 labels per roll	white	**EML-ESD (35X6,5)R**	**0830572**	1
2500 labels per roll	white	**EML-ESD (40X15)R**	**0830573**	1
2500 labels per roll	white	**EML-ESD (45X5)R**	**0830574**	1
1000 labels p. roll	white	**EML-ESD (50X10)R**	**0830575**	1
Device marking, roll				
10,000 labels p. roll	white			
10,000 labels p. roll	white			
8,000 labels p. roll	white			
10,000 labels p. roll	white			
10,000 labels p. roll	white			
10,000 labels p. roll	white			
10,000 labels p. roll	white			
10,000 labels p. roll	white			
10,000 labels p. roll	white			
8,000 labels p. roll	white			
10,000 labels p. roll	white			
10,000 labels p. roll	white			
Device marking, roll, **marked according to customer specifications**				
4 labels per strip	white			
5 labels per strip	white			
4 labels per strip	white			
4 labels per strip	white			
2 labels per strip	white			
2 labels per strip	white			
3 labels per strip	white			
2 labels per strip	white			
2 labels per strip	white			
2 labels per strip	white			
2 labels per strip	white			
1 label per strip	white			

N



Unlabeled, on large roll

Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK S1.1 • THERMOMARK X1.1 • THERMOMARK X1.2	
Polyester	
-40 ... 150	
DIN EN 61010-1 (VDE 0411-1)	
free from silicone and halogen	

Ordering data

Type	Order No.	Pcs. / Pkt.
EML-ESD (8X8)RL-T	**0830576**	1
EML-ESD (15X6)RL-T	**0830577**	1
EML-ESD (15X15)RL-T	**0830578**	1
EML-ESD (20X7)RL-T	**0830579**	1
EML-ESD (24X4)RL-T	**0830580**	1
EML-ESD (25X8)RL-T	**0830581**	1
EML-ESD (25,4X12,7)RL-T	**0830582**	1
EML-ESD (32X10)RL-T	**0830583**	1
EML-ESD (35X6,5)RL-T	**0830584**	1
EML-ESD (40X15)RL-T	**0830585**	1
EML-ESD (45X5)RL-T	**0830586**	1
EML-ESD (50X10)RL-T	**0830587**	1

N

PRINTED FOR YOU



Labeled according to customer specifications

Technical data

-
Polyester
-40 ... 150
DIN EN 61010-1 (VDE 0411-1)
free from silicone and halogen

Ordering data

Type	Order No.	Pcs. / Pkt.
EML-ESD (8X8)R CUS	**0830588**	1
EML-ESD (15X6)R CUS	**0830589**	1
EML-ESD (15X15)R CUS	**0830590**	1
EML-ESD (20X7)R CUS	**0830591**	1
EML-ESD (24X4)R CUS	**0830592**	1
EML-ESD (25X8)R CUS	**0830593**	1
EML-ESD (25,4X12,7)R CUS	**0830594**	1
EML-ESD (32X10)R CUS	**0830595**	1
EML-ESD (35X6,5)R CUS	**0830596**	1
EML-ESD (40X15)R CUS	**0830597**	1
EML-ESD (45X5)R CUS	**0830598**	1
EML-ESD (50X10)R CUS	**0830599**	1

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Stick-on device marking, removable



- Particularly suitable for temporary marking
- The labels adhere well and reliably, and can be removed easily and residue-free if required
- The labels cannot be reused following removal
- Marking service: Phoenix Contact can custom-mark all EML-RM ... markers according to your requirements
- **Designation example:**
  EML-RM (8x8)R
  Lettering field size: 8 x 8 mm
  Type of packaging: roll

Notes:

If large rolls are processed with the THERMOMARK ROLL, the external THERMOMARK ROLL-ERH media hub must be used.

Can be printed with:



Thermal transfer for rolls

N



Unlabeled

N



Unlabeled, on large roll

N



Labeled according to customer specifications

Technical data

General data		
Can be printed with:		THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1
Material		Polyester
Temperature range	[°C]	-40 ... 120
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)
Components		free from silicone and halogen

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Labels, removable				
4000 labels p. roll	white	**EML-RM (8X8)R**	**0830528**	1
4000 labels p. roll	white	**EML-RM (15X6)R**	**0830529**	1
4000 labels p. roll	white	**EML-RM (15X15)R**	**0830530**	1
4000 labels p. roll	white	**EML-RM (20X7)R**	**0830531**	1
4000 labels p. roll	white	**EML-RM (24X4)R**	**0830532**	1
4000 labels p. roll	white	**EML-RM (25X8)R**	**0830533**	1
2500 labels per roll	white	**EML-RM (25,4X12,7)R**	**0830534**	1
2500 labels per roll	white	**EML-RM (32X10)R**	**0830535**	1
2500 labels per roll	white	**EML-RM (35X6,5)R**	**0830536**	1
2500 labels per roll	white	**EML-RM (40X15)R**	**0830537**	1
2500 labels per roll	white	**EML-RM (45X5)R**	**0830538**	1
1000 labels p. roll	white	**EML-RM (50X10)R**	**0830539**	1
Labels, on large roll, removable				
10,000 labels p. roll	white	**EML-RM (8X8)RL-T**	**0830540**	1
10,000 labels p. roll	white	**EML-RM (15X6)RL-T**	**0830541**	1
8,000 labels p. roll	white	**EML-RM (15X15)RL-T**	**0830542**	1
10,000 labels p. roll	white	**EML-RM (20X7)RL-T**	**0830543**	1
10,000 labels p. roll	white	**EML-RM (24X4)RL-T**	**0830544**	1
10,000 labels p. roll	white	**EML-RM (25X8)RL-T**	**0830545**	1
10,000 labels p. roll	white	**EML-RM (25,4X12,7)RL-T**	**0830546**	1
10,000 labels p. roll	white	**EML-RM (32X10)RL-T**	**0830547**	1
10,000 labels p. roll	white	**EML-RM (35X6,5)RL-T**	**0830548**	1
8,000 labels p. roll	white	**EML-RM (40X15)RL-T**	**0830549**	1
10,000 labels p. roll	white	**EML-RM (45X5)RL-T**	**0830550**	1
10,000 labels p. roll	white	**EML-RM (50X10)RL-T**	**0830551**	1
Labels, removable, **marked according to customer specifications**				
4 labels per strip	white	**EML-RM (8X8)R CUS**	**0830552**	1
5 labels per strip	white	**EML-RM (15X6)R CUS**	**0830553**	1
4 labels per strip	white	**EML-RM (15X15)R CUS**	**0830554**	1
4 labels per strip	white	**EML-RM (20X7)R CUS**	**0830555**	1
2 labels per strip	white	**EML-RM (24X4)R CUS**	**0830556**	1
2 labels per strip	white	**EML-RM (25X8)R CUS**	**0830557**	1
3 labels per strip	white	**EML-RM (25,4X12,7)R CUS**	**0830558**	1
2 labels per strip	white	**EML-RM (32X10)R CUS**	**0830559**	1
2 labels per strip	white	**EML-RM (35X6,5)R CUS**	**0830560**	1
2 labels per strip	white	**EML-RM (40X15)R CUS**	**0830561**	1
2 labels per strip	white	**EML-RM (45X5)R CUS**	**0830562**	1
1 label per strip	white	**EML-RM (50X10)R CUS**	**0830563**	1

Accessories

Ink ribbon, length: 300 m, width: 110 mm	black	**THERMOMARK-RIBBON 110**	**5145384**	1

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Stick-on device marking, with anti-tamper protection



- Tamper-proof label, can be used as a rating plate or seal, for example
- When peeled off, part of the metallic layer comes away, leaving behind a triangular pattern on both the label and the surface
- The safety function is reliable up to 80°C
- Labeling service: Phoenix Contact can custom-label all EMLS ... markers in accordance with your requirements
- The EMLS ... materials are UL-listed
- **Designation example:**
  EMLS (15x9)R SR
  Lettering field size: 15 x 9 mm
  Type of packaging: roll

Can be printed with:



Thermal transfer for rolls



Unlabeled

Technical data

General data		
Can be printed with:		THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1
Material		Polyester
Temperature range	[°C]	-40 ... 150
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)
Components		free from silicone and halogen

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Safety labels				
2500 labels per roll	silver	**EMLS (15X9)R SR**	**0800347**	1
2500 labels per roll	silver	**EMLS (19X6)R SR**	**0800343**	1
1000 labels p. roll	silver	**EMLS (20X20)R SR**	**0800344**	1
1000 labels p. roll	silver	**EMLS (26,5X12)R SR**	**0800353**	1
1000 labels p. roll	silver	**EMLS (38,1X19)R SR**	**0800354**	1
1000 labels p. roll	silver	**EMLS (40X8)R SR**	**0800348**	1
1000 labels p. roll	silver	**EMLS (40X15)R SR**	**0800345**	1
500 labels p. roll	silver	**EMLS (60X30)R SR**	**0800355**	1
500 labels p. roll	silver	**EMLS (70X32)R SR**	**0800346**	1
100 labels p. roll	silver	**EMLS (70X150)R SR**	**0800351**	1
250 labels p. roll	silver	**EMLS (76X51)R SR**	**0800350**	1
250 labels p. roll	silver	**EMLS (85X32)R SR**	**0800356**	1

Stick-on device marking, with anti-tamper protection

- All EMLS ... device markers can also be supplied marked according to customer requirements



Labeled according to customer specifications

Technical data

General data		
Can be printed with:		-
Material		Polyester
Temperature range	[°C]	-40 ... 150
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)
Components		free from silicone and halogen

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Safety label, labeled acc. to customer specifications				
4 labels per strip	silver	**EMLS (15X9)R SR CUS**	**0830175**	1
4 labels per strip	silver	**EMLS (19X6)R SR CUS**	**0830171**	1
4 labels per strip	silver	**EMLS (20X20)R SR CUS**	**0830172**	1
2 labels per strip	silver	**EMLS (26,5X12)R SR CUS**	**0830179**	1
2 labels per strip	silver	**EMLS (38,1X19)R SR CUS**	**0830180**	1
2 labels per strip	silver	**EMLS (40X8)R SR CUS**	**0830176**	1
2 labels per strip	silver	**EMLS (40X15)R SR CUS**	**0830173**	1
1 label per strip	silver	**EMLS (60X30)R SR CUS**	**0830181**	1
1 label per strip	silver	**EMLS (70X32)R SR CUS**	**0830174**	1
1 label per strip	silver	**EMLS (70X150)R SR CUS**	**0830178**	1
1 label per strip	silver	**EMLS (76X51)R SR CUS**	**0830177**	1
1 label per strip	silver	**EMLS (85X32)R SR CUS**	**0830182**	1

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Self-adhesive conductor marking with transparent protective foil



- The cable marker labels consist of a labeling field and a transparent protective foil
- The protective foil is wound over the labeling and provides permanent protection against dirt and abrasion
- The cable marker labels do not increase the cross section of the cable, allowing the cable to be subsequently drawn through cable ducts, for example
- High-quality labeling image created by thermal transfer printing
- Quick and easy handling
- Resistant to solvents

Can be printed with:



Thermal transfer for rolls



Marker for conductor diameters of up to 46 mm, unlabeled

Technical data

General data		
Can be printed with:		THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1
Material		PVC
Temperature range	[°C]	-50 ... 110
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)
Components		Silicone-free

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Cable marker labels				
5000 labels, up to 3 mm Ø	white	**WML 3 (13X10)R**	**0800073**	1
3000 labels, up to 5 mm Ø	white	**WML 5 (25X10)R**	**0817523**	1
3000 labels, up to 5 mm Ø	yellow	**WML 5 (25X10)R YE**	**0830673**	1
7000 labels, up to 6 mm Ø	white	**WML 6 (13X13)R**	**0816252**	1
7000 labels, up to 6 mm Ø	yellow	**WML 6 (13X13)R YE**	**0830674**	1
4000 labels, up to 7.5 mm Ø	white	**WML 7,5 (13X13)R**	**0800074**	1
1500 labels, up to 7.5 mm Ø	white	**WML 7,5 (17X9)R**	**0828444**	1
2100 labels, up to 7.5 mm Ø	white	**WML 7,5 (25X13)R**	**0800075**	1
1000 labels, up to 12 mm Ø	white	**WML 12 (25X19)R**	**0800076**	1
1500 labels, up to 14 mm Ø	white	**WML 14 (25X19)R**	**0817536**	1
1500 labels, up to 14 mm Ø	yellow	**WML 14 (25X19)R YE**	**0817549**	1
1000 labels, up to 14 mm Ø	white	**WML 14 (38X19)R**	**0817552**	1
1500 labels, up to 14 mm Ø	yellow	**WML 14 (38X19)R YE**	**0830675**	1
2500 labels, up to 18 mm Ø	white	**WML 18 (12X12)R**	**0817507**	1
500 labels, up to 20 mm Ø	white	**WML 20 (31X25)R**	**0828457**	1
900 labels, up to 22 mm Ø	white	**WML 22 (25X25)R**	**0800078**	1
500 labels, up to 36 mm Ø	white	**WML 36 (25X38)R**	**0817510**	1
250 labels, up to 46 mm Ø	white	**WML 46 (25X38)R**	**0800067**	1
Cable marker labels, on large roll				
10,000 labels, up to 5 mm Ø	white	**WML 5 (25X10)RL**	**0830676**	1
15,000 labels, up to 6 mm Ø	white	**WML 6 (13X13)RL**	**0830677**	1
5000 labels, up to 14 mm Ø	white	**WML 14 (25X19)RL**	**0830678**	1
3000 labels, up to 14 mm Ø	white	**WML 14 (38X19)RL**	**0830679**	1



- All WML ... cable marker labels can also be supplied labeled according to customer requirements



Markers for conductor diameters of up to 36 mm, labeled acc. to customer specifications

Technical data

General data		
Material		PVC
Temperature range	[°C]	-50 ... 110
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)
Components		Silicone-free

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Cable marker labels, labeled according to customer requirements				
Up to 3 mm Ø, 4 labels per strip	white	**WML 3 (13X10)R CUS**	**0824884**	1
Up to 5 mm Ø, 3 labels per strip	white	**WML 5 (25X10)R CUS**	**0824885**	1
Up to 5 mm Ø, 3 labels per strip	yellow	**WML 5 (25X10)R YE CUS**	**0830680**	1
Up to 6 mm Ø, 7 labels per strip	white	**WML 6 (13X13)R CUS**	**0824886**	1
Up to 6 mm Ø, 7 labels per strip	yellow	**WML 6 (13X13)R YE CUS**	**0830681**	1
Up to 7.5 mm Ø, 7 labels per strip	white	**WML 7,5 (13X13)R CUS**	**0824887**	1
Up to 7.5 mm Ø, 4 labels per strip	white	**WML 7,5 (17X9)R CUS**	**0828991**	1
Up to 7.5 mm Ø, 3 labels per strip	white	**WML 7,5 (25X13)R CUS**	**0824888**	1
Up to 12 mm Ø, 3 labels per strip	white	**WML 12 (25X19)R CUS**	**0824889**	1
Up to 14 mm Ø, 3 labels per strip	white	**WML 14 (25X19)R CUS**	**0824890**	1
Up to 14 mm Ø, 3 labels per strip	yellow	**WML 14 (25X19)R YE CUS**	**0824891**	1
Up to 14 mm Ø, 2 labels per strip	white	**WML 14 (38X19)R CUS**	**0824892**	1
Up to 14 mm Ø, 2 labels per strip	yellow	**WML 14 (38X19)R YE CUS**	**0830682**	1
Up to 18 mm Ø, 7 labels per strip	white	**WML 18 (12X12)R CUS**	**0824894**	1
Up to 20 mm Ø, 2 labels per strip	white	**WML 20 (31X25)R CUS**	**0828992**	1
Up to 22 mm Ø, 3 labels per strip	white	**WML 22 (25X25)R CUS**	**0824895**	1
Up to 36 mm Ø, 3 labels per strip	white	**WML 36 (25X38)R CUS**	**0824896**	1

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THERMOMARK ROLL, thermal transfer printer for material off the roll



Thermal transfer for rolls



- The THERMOMARK ROLL can print markers supplied on rolls in the context of terminal, conductor, cable, and device marking applications
- For all labels and shrink sleeves
- Maintenance-free operation with tried-and-tested thermal transfer printing technology
- High-quality, fast labeling
- Easy operating concept based on straightforward touchscreen entry
- USB and Ethernet connections
- Easy to control with the CLIP PROJECT software

Notes:

An application video can be found in the download area for the relevant product on our website at **www.phoenixcontact.net/products**.

Technical data

Dimensions		Width	Length	Height
	[mm]	**253**	**320**	**189**
General data				
Print resolution	[dpi]	300 dpi		
Max. print width	[mm]	104		
Max. printing length	[mm]	1000		
Power supply	[V]	100 ... 240 / 50 Hz ... 60 Hz		
Weight	[kg]	4		
Operating systems		MS Windows XP SP3, MS Windows Vista, MS Windows 7 (32/64-bit), MS Windows 8 (32/64-bit)		

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Thermal transfer printer for material off the roll, including European power cable, US power cable, USB cable, DVD with CLIP PROJECT ADVANCED, CD with multilingual user manual/driver/firmware, A5 printed English/German user manual, one roll of EML (20x8) labels containing 1000 labels, one ink ribbon (50 meters)	gray	**THERMOMARK ROLL**	**5146477**	1

Accessories

Cutter, can be retrofitted, for precise cutting of continuous media into required lengths		**THERMOMARK ROLL-CUTTER**	**5146422**	1
Cutter, can be retrofitted, for perforating continuous media		**THERMOMARK ROLL-CUTTER/P**	**5146435**	1
Transport case		**TL CASE**	**0800613**	1
External media hub, for roll diameters of 150 mm to 305 mm		**THERMOMARK ROLL-ERH**	**5146448**	1
External media hub, for roll diameters of up to 500 mm		**THERMOMARK-ERH 500**	**5146309**	1
Ink ribbon, length: 300 m, width: 110 mm	black	**THERMOMARK-RIBBON 110**	**5145384**	1
	blue	**THERMOMARK-RIBBON 110 BU**	**0829544**	1
	green	**THERMOMARK-RIBBON 110 GN**	**0829542**	1
	red	**THERMOMARK-RIBBON 110 RD**	**0829543**	1
Ink ribbon, specifically for high-temperature labels, EML-HT...	black	**THERMOMARK-RIBBON 110-EML-HT**	**0800342**	1
Ink ribbon, specifically for WMS... shrink sleeves, length: 300 m, width: 110 mm	black	**THERMOMARK-RIBBON 110-WMSU**	**0801358**	1
	white	**THERMOMARK-RIBBON 110-WMSU WH**	**0801359**	1
Ink ribbon, specifically for WMS... shrink sleeves, length: 300 m, width: 64 mm	black	**THERMOMARK-RIBBON 64-WMSU**	**0801360**	1
	white	**THERMOMARK-RIBBON 64-WMSU WH**	**0801361**	1

THERMOMARK ROLL X1, thermal transfer printer for material off the roll



Thermal transfer for rolls



The THERMOMARK ROLL X1 printer is suitable for labeling large quantities and offers the following features:

- Also accommodates large rolls; inside the printer housing, the label rolls are protected against environmental influences such as dust and dirt
- For all labels and shrink sleeves
- Maintenance-free operation with tried-and-tested thermal transfer printing technology
- High-quality, fast labeling
- Easy operating concept based on straightforward touchscreen entry
- USB and Ethernet connections
- Easy to control with the CLIP PROJECT software
- Printing and dispensing labels on request or automatically after removing the label with the THERMOMARK ROLL X1 - DISPENSER

Cutting to length or perforating is easy

- Continuous media can be cut or perforated with a high degree of positioning accuracy (see figure below)



Technical data

Dimensions		Width	Length	Height
	[mm]	**264**	**412**	**245**
General data				
Temperature range	[°C]	5 ... 40		
Print resolution	[dpi]	300 dpi		
Max. print width	[mm]	104		
Max. printing length	[mm]	1000		
Interfaces		10/100 Mbps Ethernet / USB 2.0		
Power supply	[V]	100 ... 240 / 50 Hz ... 60 Hz		
Weight	[kg]	5		
Operating systems		MS Windows XP SP3, MS Windows Vista, MS Windows 7 (32/64-bit), MS Windows 8 (32/64-bit)		

Ordering data

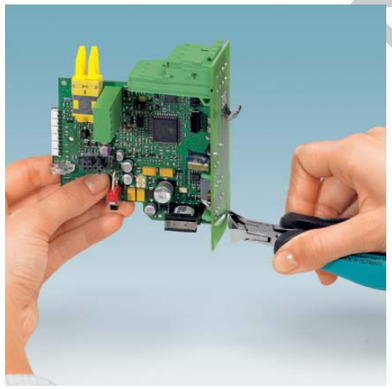
Description	Color	Type	Order No.	Pcs. / Pkt.
Thermal transfer printer for material off the roll, including European power cable, US power cable, USB cable, DVD with CLIP PROJECT ADVANCED, CD with multilingual user manual/driver/firmware, A5 printed English/German user manual, one roll of EML (20x8) labels containing 1000 labels, one ink ribbon (50 meters)	gray	**THERMOMARK ROLL X1**	**5146723**	1

Accessories

Cutter, can be retrofitted, for precise cutting of continuous media into required lengths		**THERMOMARK ROLL X1 CUTTER**	**5146765**	1
Perforation device, can be retrofitted, for perforating and cutting continuous media		**THERMOMARK ROLL X1 CUTTER/P**	**5146766**	1
Ink ribbon, length: 300 m, width: 110 mm	black	**THERMOMARK-RIBBON 110**	**5145384**	1
	blue	**THERMOMARK-RIBBON 110 BU**	**0829544**	1
	green	**THERMOMARK-RIBBON 110 GN**	**0829542**	1
	red	**THERMOMARK-RIBBON 110 RD**	**0829543**	1
Ink ribbon, specifically for high-temperature labels, EML-HT...	black	**THERMOMARK-RIBBON 110-EML-HT**	**0800342**	1
Ink ribbon, specifically for WMS... shrink sleeves, length: 300 m, width: 110 mm	black	**THERMOMARK-RIBBON 110-WMSU**	**0801358**	1
	white	**THERMOMARK-RIBBON 110-WMSU WH**	**0801359**	1
Ink ribbon, specifically for WMS... shrink sleeves, length: 300 m, width: 64 mm	black	**THERMOMARK-RIBBON 64-WMSU**	**0801360**	1
	white	**THERMOMARK-RIBBON 64-WMSU WH**	**0801361**	1
Ink ribbon, specifically for cable markers for assembly with cable binders, WMTB HF..., length: 300 m, width: 110 mm	black	**THERMOMARK-RIBBON 110-WMTB HF**	**5148007**	1
Transport case	silver	**THERMOMARK ROLL X1-CASE**	**5146724**	1

MICROFOX electronic pliers

Notes:
Technical data regarding cutting capacity, see **www.phoenixcontact.net/products**



Miniature precision pliers feature the following:
– Ergonomically designed two-component grip for fatigue-proof and non-slip use
– Manufactured from high-grade special tool steel
– Opening spring for uniform, smooth opening
– Through-connected joint for permanent stability and optimum distribution of force
– Mirror-polished and oiled metal surfaces, which provide maximum rust protection

Cutting pliers
– Additional inductive hardened cutting for long-term, stable cutting performance
– Precision-ground for exact cutting applications with minimum effort
– Various head shapes, even for areas that are difficult to access

Gripping and bending pliers
– Smooth grip to prevent damage to components when gripping and bending



Diagonal cutter, with chamfer

Description	Type	Order No.	Pcs. / Pkt.
Electronic diagonal cutter, round head, with chamfer, with opening spring	MICROFOX-SB	1212489	1
Electronic diagonal cutter, tapered head, angled (21°), without chamfer, with opening spring	MICROFOX-SP	1212488	1
Electronic diagonal cutter, tapered head, without chamfer, with opening spring, non-reflective phosphate-treated surface, punched version	MICROFOX-SP-1	1212487	1
Electronic front cutter, without chamfer, with opening spring			
Electronic front cutter, 20° angle, without chamfer, with opening spring			
Electronic needle-nose pliers, smooth grip, with opening spring			
Electronic needle-nose pliers, 45° angle, smooth grip, with opening spring			
Electronic flat-nose pliers, smooth grip, with opening spring			
Electronic round-nose pliers, smooth grip, with opening spring			



Front cutter

Type	Order No.	Pcs. / Pkt.
MICROFOX-E	1212494	1
MICROFOX-EO	1212495	1



Needle-nose pliers

Type	Order No.	Pcs. / Pkt.
MICROFOX-P	1212491	1
MICROFOX-PC	1212492	1



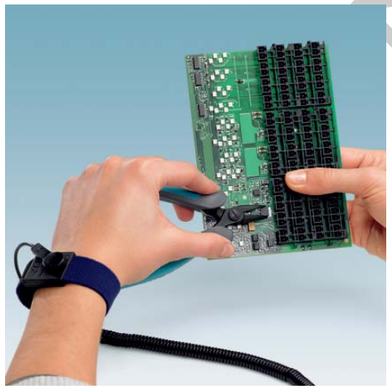
Flat/round-nose pliers

Type	Order No.	Pcs. / Pkt.
MICROFOX-F	1212493	1
MICROFOX-R	1212490	1

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MICROFOX ESD electronic pliers

Notes:
Technical data regarding cutting capacity, see **www.phoenixcontact.net/products**



ESD MICROFOX pliers offer the following features:
– The special conductive plastic grip ensures slow and safe removal of electrostatic energy according to standards and directives such as DIN EN 61340-5
– Ergonomically designed two-component grip for fatigue-proof and non-slip use
– Manufactured from high-grade special tool steel
– Opening spring for uniform, smooth opening
– Screwed precision-joint for permanent stability and optimum results
– Mirror-polished and phosphate-treated metal surfaces for optimum rust protection and no glare when working

Cutting pliers
– Additional inductive hardened cutting for long-term, stable cutting performance
– Precision-ground for exact cutting applications with minimum effort
– Various head shapes, even for areas that are difficult to access

Gripping and bending pliers
– Smooth grip to prevent damage to components when gripping and bending



ESD



ESD diagonal cutter

Description	Type	Order No.	Pcs. / Pkt.
ESD electronic diagonal cutter, round head, without chamfer, with opening spring	MICROFOX-S ESD	1212480	1
ESD electronic front cutter, without chamfer, with opening spring			
ESD electronic needle-nose pliers, smooth grip, with opening spring			
ESD electronic needle-nose pliers, 45° angle, smooth grip, with opening spring			
ESD electronic flat-nose pliers, smooth grip, with opening spring			
ESD electronic round-nose pliers, smooth grip, with opening spring			

ESD



ESD front cutter

Type	Order No.	Pcs. / Pkt.
MICROFOX-E ESD	1212485	1

ESD



ESD needle-nose pliers

Type	Order No.	Pcs. / Pkt.
MICROFOX-P ESD	1212482	1
MICROFOX-PC ESD	1212483	1

ESD



ESD flat/round-nose pliers

Type	Order No.	Pcs. / Pkt.
MICROFOX-F ESD	1212484	1
MICROFOX-R ESD	1212481	1

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Stamp holder for EMC header



Stamp set for EMCV header

Description	Ordering data			Ordering data		
	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Stamp holder, for EMC press-in pin strips, for upper and lower stamp	**EMC 1,5-SH**	**1877258**	1			
Stamp set, for EMCV press-in pin strips, consisting of upper and lower stamp for 3.81 mm pitch, 2 to 16-pos.				**EMCV 1,5-SS 1**	**1877274**	1



Stamp holder for EMSTB header



Stamp set for EMSTBVA header

Description	Ordering data			Ordering data		
	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Stamp holder, for EMSTB press-in pin strips, for upper and lower stamp	**EMSTB 2,5-SH**	**1877203**	1			
Stamp set, for EMSTBVA press-in pin strips, consisting of lower stamp 2 to 24 pos. and upper stamp 2 to 16-pos.				**EMSTBVA 2,5-SS-1-5,08**	**1877216**	1



Module female contact for MSTBC male connector



Module male contact for ICC connector

Description	Ordering data			Ordering data		
	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Module female contact, is inserted into the connector after the conductor has been crimped; for conductors from						
0.5 to 1.0 mm²	**MSTBC-MT 0,5-1,0**	**3190564**	100			
0.5 to 1.0 mm² ribbon contacts	**MSTBC-MT 0,5-1,0 BA**	**3190645**	4000			
1.5 to 2.5 mm²	**MSTBC-MT 1,5-2,5**	**3190551**	100			
1.5 to 2.5 mm² ribbon contacts	**MSTBC-MT 1,5-2,5 BA**	**3190658**	3500			
Module male contact, is inserted into the connector after the conductor has been crimped; for conductors from						
0.5 to 1.0 mm²				**ICC-MT 0,5-1,0**	**3190577**	100
0.5 to 1.0 mm² ribbon contacts				**ICC-MT 0,5-1,0 BA**	**3190603**	4000
1.5 to 2.5 mm²				**ICC-MT 1,5-2,5**	**3190580**	100
1.5 to 2.5 mm² ribbon contacts				**ICC-MT 1,5-2,5 BA**	**3190593**	4000



Module female contact for MCC male connector



Module female contact for PCC male connector

Description	Ordering data			Ordering data		
	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Module female contact, is inserted into the plug component after the conductor has been crimped; for conductors from						
0.2 to 0.34 mm²	**MCC-MT 0,2-0,35**	**1859988**	100			
0.2 to 0.34 mm² ribbon contacts	**MCC-MT 0,2-0,35 (0,0) BA**	**1923717**	8000			
0.5 to 1.0 mm²	**MCC-MT 0,5-1,0**	**1859991**	100			
0.5 to 1.0 mm² ribbon contacts	**MCC-MT 0,5-1,0 BAND**	**1898622**	6500			
Module socket contact, 0.5 - 1 mm² for wires from 0.5 ... 1,0 mm²				**STG-MTN 0,5-1,0**	**3190438**	100
				STG-MTN 0,5-1,0 BA	**3190629**	4000
For conductors from 1.5 ... 2.5 mm²				**STG-MTN 1,5-2,5**	**3190506**	100
				STG-MTN 1,5-2,5 BAND	**3190632**	3300

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Pull-out aid for connectors with crimp contact, pitch 5.08 mm

Description	Ordering data		
	Type	Order No.	Pcs. / Pkt.
Pull-out aid for MSTBC 2,5/... and ICC 2,5/..., for snapping into the latching chambers of the connector, can be labeled with ZB 6			
2-pos.	**STZ 2-MSTBC-5,08**	**1810529**	50
4-pos.	**STZ 4-MSTBC-5,08**	**1810532**	50
8-pos.	**STZ 8-MSTBC-5,08**	**1810516**	50
12-pos.	**STZ 12-MSTBC-5,08**	**1810503**	50

Notes:

[1]) Different numbers of positions can be supplied for MCC 1/...ST on request



Pull-out aid for connectors with crimp contact, pitch 3.81/7.62 mm

Description	Ordering data		
	Type	Order No.	Pcs. / Pkt.
Pull-out aid for MCC 1/...ST.. and for PCC 4/...-ST..., for snapping into the latching chambers of the connector, can be labeled with ZB 6;[1])			
2-pos.	**STZ 2-PCC 4-7,62**	**1840214**	50
3 to 4-pos.	**STZ 3-PCC 4-7,62**	**1840227**	50
5- to 7-pos.	**STZ 5-PCC 4-7,62 GN**	**1842005**	50
8- to 12-pos.	**STZ 8-PCC 4-7,62**	**1840230**	50



Insertion bridge for connectors featuring screw connection with 3.81 mm pitch

Description	Ordering data		
	Type	Order No.	Pcs. / Pkt.
Insertion bridge, fully insulated, for connectors with a 3.81 mm pitch			
2-pos.	**EBPL 2-3,81**	**1733495**	50
3-pos.	**EBPL 3-3,81**	**1733505**	50
4-pos.	**EBPL 4-3,81**	**1733518**	50
Insertion bridge, insulated			
2-pos.			
3-pos.			



Insertion bridge with long contact zone for connectors featuring screw connection with 5 or 5.08 mm pitch

Ordering data		
Type	Order No.	Pcs. / Pkt.
EBL 2- 5	**2303145**	10
EBL 3- 5	**2303158**	10

Notes:

Please refer to the notes for the bridges, refer to page 37



Insertion bridge for PCB terminal blocks and connectors featuring screw connection with 5.0 or 5.08 mm pitch

Description	Ordering data		
	Type	Order No.	Pcs. / Pkt.
Insertion bridge, fully insulated, for plug connectors with 5.0 or 5.08 mm pitch			
2-pos.	**EBP 2- 5**	**1733169**	10
3-pos.	**EBP 3- 5**	**1733172**	10
4-pos.	**EBP 4- 5**	**1733185**	10
5-pos.	**EBP 5- 5**	**1733198**	10
6-pos.	**EBP 6- 5**	**1733208**	10

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Fixed bridges

Notes:

Please refer to the notes for the bridges, refer to page 37

[1]) Current carrying capacity 20 A. Laboratory data sheet available on request.



Fixed bridge, for ZFKDS 4 PCB terminal blocks, 7.5 mm pitch



Fixed bridge, for ZFKDS 4 PCB terminal blocks, 10 mm pitch

Description	Ordering data			Ordering data		
	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Fixed bridge, for ZFKDS 4 PCB terminal blocks, fully insulated, 7.5 mm pitch[1])						
2-pos.	**FBSK 2-7,5**	**1928343**	50			
3-pos.	**FBSK 3-7,5**	**1928356**	50			
4-pos.	**FBSK 4-7,5**	**1928369**	10			
5-pos.	**FBSK 5-7,5**	**1928372**	50			
10-pos.	**FBSK 10-7,5**	**1928385**	50			
Fixed bridge, for ZFKDS 4 PCB terminal blocks, fully insulated, 10 mm pitch[1])						
2-pos.				**FBSK 2-10**	**1928398**	50
3-pos.				**FBSK 3-10**	**1928408**	50
4-pos.				**FBSK 4-10**	**1928411**	50
5-pos.				**FBSK 5-10**	**1928424**	10
10-pos.				**FBSK 10-10**	**1928437**	50

Notes:

Please refer to the notes for the bridges, refer to page 37

[1]) Current carrying capacity 57 A. Laboratory data sheet available on request.



Fixed bridge, for ZFKDS 10 PCB terminal blocks, 10 mm pitch



Fixed bridge, for ZFKDS 10 PCB terminal blocks, 10 mm pitch

Description	Ordering data			Ordering data		
	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Fixed bridge, for ZFKDS 10 PCB terminal blocks, fully insulated, 10 mm pitch[1])						
2-pos.	**FBSK 2-10/ZFKDS 10**	**1986644**	50			
3-pos.	**FBSK 3-10/ZFKDS 10**	**1986657**	10			
4-pos.	**FBSK 4-10/ZFKDS 10**	**1986660**	10			
Fixed bridge, for ZFKDS 10 PCB terminal blocks, fully insulated, pitch: 15 mm[1])						
2-pos.				**FBSK 2-15/ZFKDS 10**	**1986699**	50
3-pos.				**FBSK 3-15/ZFKDS 10**	**1986686**	50
4-pos.				**FBSK 4-15/ZFKDS 10**	**1986673**	50

Test plug



2.3 mm test plugs



Test plug, consisting of 1 mm Ø test pin and 2 mm Ø socket

Description	Color	Ordering data			Ordering data		
		Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Test plug metal part, 2.3 mm Ø		**MPS-MT**	**0201744**	10			
Insulating sleeve, for MPS metal part	white	**MPS-IH WH**	**0201663**	10			
	red	**MPS-IH RD**	**0201676**	10			
	blue	**MPS-IH BU**	**0201689**	10			
	yellow	**MPS-IH YE**	**0201692**	10			
	green	**MPS-IH GN**	**0201702**	10			
	gray	**MPS-IH GY**	**0201728**	10			
	black	**MPS-IH BK**	**0201731**	10			
Test plug, consisting of 1 mm Ø test pin, conductor length 150 mm and socket Ø 2 mm					**MPS-MT 1-S**	**1944372**	1
					MPS-MT 1-S4-B RD	**1982800**	50



4 mm test plugs



Reducing connector

Description	Color	Ordering data			Ordering data		
		Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Test plug, consisting of: **Metal part** for 4 mm Ø socket hole And							
		PS-MT	**0311647**	10			
Insulating sleeve for PS metal part	white	**PS-IH WH**	**0311566**	10			
	red	**PS-IH RD**	**0311579**	10			
	blue	**PS-IH BU**	**0311582**	10			
	yellow	**PS-IH YE**	**0311595**	10			
	green	**PS-IH GN**	**0311605**	10			
	violet	**PS-IH VT**	**0311618**	10			
	gray	**PS-IH GY**	**0311621**	10			
	black	**PS-IH BK**	**0311634**	10			
Reducing plug, for connecting a 4 mm Ø test plug to a 2.3 mm Ø test plug socket	gray				**RPS**	**0201647**	10

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Notes:

COMBICON select
You will find the possible connector combinations in COMBICON select at: **www.phoenixcontact.net/products**



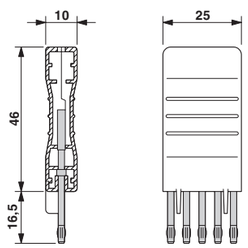
5-position test plug,

Technical data

Technical data	
Single-wire/terminal point, stranded	0.14 mm² - 0.75 mm²
Single-wire/terminal point, AWG	26 - 18
Nominal current I_N	2 A
Nominal voltage U_N	125 V

Ordering data

Description	Type	Order No.	Pcs. / Pkt.
Test plug, 5-pos., 5/5,08 mm pitch with 2 mm Ø test pins, gold-plated test pins	**ST-MKDSP 3/5**	**1718207**	10
Test plug, 10-pos., 5/5,08 mm pitch with 2 mm Ø lamellar pins and 10 firmly welded 1 m test conductors, gold-plated lamellar pins			
Test plug, 5-position, 5/5.08 mm pitch, with special multiple-spring wire plug, makes contact in the connection space			
Test plug, 5-position, 7.5/7.62 mm pitch, with special multiple-spring wire plug, makes contact in the connection space			





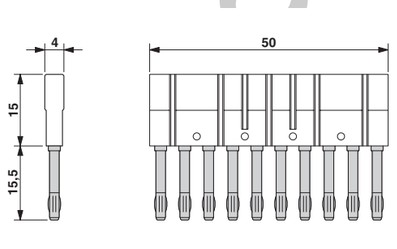
10-pos. test connector, with 10 welded-on test conductors

Technical data

	0.75 mm²
	-
	2 A
	125 V

Ordering data

Type	Order No.	Pcs. / Pkt.
SPB 10-MKDSP	**1301355**	5





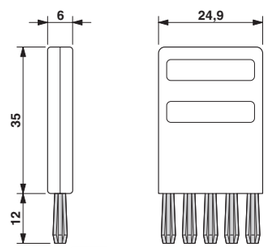
5-pos. test plug, 5/0/5.08 mm pitch, makes contact in the conductor connection space

Technical data

	0.75 mm²
	-
	2 A
	25 V

Ordering data

Type	Order No.	Pcs. / Pkt.
SPB 5-MKDS 3	**1301216**	10





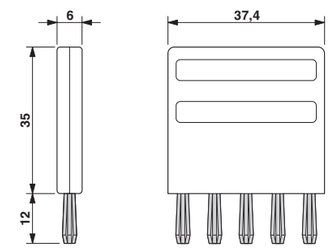
5-pos. test plug, 7.5/7.62 mm pitch, makes contact in the conductor connection space

Technical data

	0.75 mm²
	-
	2 A
	25 V

Ordering data

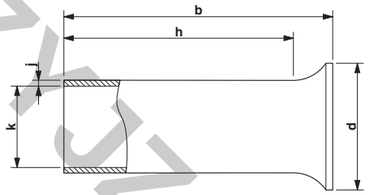
Type	Order No.	Pcs. / Pkt.
SPB 5-GMKDS 3	**1301203**	10



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Ferrules without insulating collar, according to DIN 46228–1

– The ferrules without plastic sleeve are made from soft tin-plated electrolytic copper
– The dimensions of the ferrules conform to DIN 46228–1
– The A 0,25.. can also be used to process conductors with a cross section of 0.14 mm²





Conductor cross sections from 0.14 to 35 mm²

Notes:

[1]) These ferrules are not included in DIN 46228–4:1990–09.

Technical data

General data

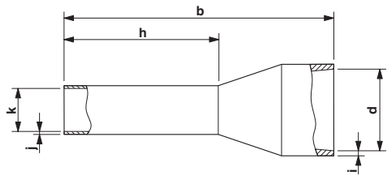
Material / coating	E-CU / tin-plated (galvanic)

Ordering data

Description	Cross section [mm²]	AWG	Color	Dimensions [mm] a	b	d	h	i	j	k	Type	Order No.	Pcs. / Pkt.
Ferrules, without plastic sleeves, CSA-certified													
	0.25[1])	24	silver	-	5.00	1.70	4.30	-	0.15	0.80	**A 0,25- 5**	**3202465**	1000
	0.25[1])	24	silver	-	7.00	1.70	6.30	-	0.15	0.80	**A 0,25- 7**	**3202478**	1000
	0.34[1])	22	silver	-	7.00	1.80	6.30	-	0.15	0.90	**A 0,34- 7**	**3009202**	1000
	0.5	20	silver	-	6.00	2.10	5.30	-	0.15	1.00	**A 0,5 - 6**	**3200218**	1000
	0.5[1])	20	silver	-	8.00	2.10	7.30	-	0.15	1.00	**A 0,5 - 8**	**3202481**	1000
	0.5	20	silver	-	10.00	2.10	9.30	-	0.15	1.00	**A 0,5 -10**	**3202494**	1000
	0.75	18	silver	-	6.00	2.30	5.30	-	0.15	1.20	**A 0,75- 6**	**3200221**	1000
	0.75[1])	18	silver	-	8.00	2.30	7.30	-	0.15	1.20	**A 0,75- 8**	**3202504**	1000
	0.75	18	silver	-	10.00	2.30	9.30	-	0.15	1.20	**A 0,75-10**	**3200234**	1000
	1	18	silver	-	6.00	2.50	5.30	-	0.15	1.40	**A 1 - 6**	**3200247**	1000
	1[1])	18	silver	-	8.00	2.50	7.30	-	0.15	1.40	**A 1 - 8**	**3202517**	1000
	1	18	silver	-	10.00	2.50	9.30	-	0.15	1.40	**A 1 -10**	**3200250**	1000
	1.5	16	silver	-	7.00	2.80	6.00	-	0.15	1.70	**A 1,5 - 7**	**3200263**	1000
	1.5	16	silver	-	10.00	2.80	9.00	-	0.15	1.80	**A 1,5 -10**	**3200276**	1000
	1.5	16	silver	-	12.00	2.80	11.00	-	0.15	1.70	**A 1,5 -12**	**3202588**	1000
	1.5	16	silver	-	15.00	2.80	14.00	-	0.15	1.70	**A 1,5 -15**	**3202591**	1000
	1.5	16	silver	-	18.00	2.80	17.00	-	0.15	1.70	**A 1,5 -18**	**3202601**	1000
	2.5	14	silver	-	7.00	3.40	6.00	-	0.15	2.20	**A 2,5 - 7**	**3200289**	1000
	2.5	14	silver	-	12.00	3.40	11.00	-	0.15	2.20	**A 2,5 -12**	**3200292**	1000
	2.5	14	silver	-	18.00	3.40	17.00	-	0.15	2.20	**A 2,5 -18**	**3202821**	1000
	4	12	silver	-	9.00	4.00	8.00	-	0.20	2.80	**A 4 - 9**	**3200302**	1000
	4	12	silver	-	12.00	4.00	11.00	-	0.20	2.80	**A 4 -12**	**3200315**	1000
	4	12	silver	-	18.00	4.00	17.00	-	0.20	2.80	**A 4 -18**	**3202834**	1000
	6	10	silver	-	10.00	4.70	9.00	-	0.20	3.50	**A 6 -10**	**3202520**	500
	6	10	silver	-	12.00	4.70	11.00	-	0.20	3.50	**A 6 -12**	**3200328**	500
	10	8	silver	-	12.00	5.80	10.80	-	0.20	4.50	**A 10 -12**	**3200331**	500
	10	8	silver	-	18.00	5.80	16.80	-	0.20	4.50	**A 10 -18**	**3200344**	500
	16	6	silver	-	12.00	7.50	10.50	-	0.20	5.80	**A 16 -12**	**3200425**	100
	25[1])	4	silver	-	12.00	9.50	10.00	-	0.20	7.30	**A 25 -12**	**3200357**	100
	25	4	silver	-	15.00	9.50	13.00	-	0.20	7.30	**A 25 -15**	**3200360**	100
	25	4	silver	-	18.00	9.50	16.00	-	0.20	7.30	**A 25 -18**	**3200373**	100
	25[1])	4	silver	-	20.00	9.50	18.00	-	0.20	7.30	**A 25 -20**	**3200386**	100
	35	2	silver	-	18.00	11.00	16.00	-	0.20	8.30	**A 35 -18**	**3200399**	100
	35[1])	2	silver	-	20.00	11.00	18.00	-	0.20	8.30	**A 35 -20**	**3200409**	100

Ferrules with insulating collar, according to DIN 46228–4

– The ferrules with plastic sleeve are made from soft tin-plated electrolytic copper
– The insulation reliability of close connections is increased and the splicing of wires is prevented
– The AI 0,25.. can also be used to process conductors with a cross section of 0.14 mm²





Conductor cross sections from 0.14 to 120 mm²

Notes:

[1]) These ferrules are not included in DIN 46228–4:1990–09.

Technical data

General data

Material / coating	E-CU / tin-plated (galvanic)
Plastic sleeve material	polypropylene
Long/short-term temperature	105 °C / 120 °C

Ordering data

Description	Cross section [mm²]	AWG	Color	Dimensions [mm] a	b	d	h	i	j	k	Type	Order No.	Pcs. / Pkt.
Ferrules, with plastic sleeve, color range as per **DIN 46228-4: 1990-09,** CSA-certified													
	0.25[1])	22	yellow	-	10.50	2.00	6.00	0.25	0.15	0.80	**AI 0,25- 6 YE**	**3203024**	100
	0.25[1])	22	yellow	-	12.50	2.00	8.00	0.25	0.15	0.80	**AI 0,25- 8 YE**	**3203037**	100
	0.5	20	white	-	12.00	2.50	6.00	0.25	0.15	1.10	**AI 0,5 - 6 WH**	**3200687**	100
	0.5	20	white	-	14.00	2.50	8.00	0.25	0.15	1.10	**AI 0,5 - 8 WH**	**3200014**	100
	0.5	20	white	-	14.00	2.50	8.00	0.25	0.15	1.10	**AI 0,5 - 8 WH -1000**	**3200881**	1000
	0.5	20	white	-	16.00	2.50	10.00	0.25	0.15	1.10	**AI 0,5 -10 WH**	**3201275**	100
	0.5[1])	20	white	-	18.00	2.50	12.00	0.25	0.15	1.10	**AI 0,5 -12 WH**	**3200506**	100
	0.75	18	gray	-	12.00	2.80	6.00	0.25	0.15	1.30	**AI 0,75- 6 GY**	**3200690**	100
	0.75	18	gray	-	14.00	2.80	8.00	0.25	0.15	1.30	**AI 0,75- 8 GY**	**3200519**	100
	0.75	18	gray	-	14.00	2.80	8.00	0.25	0.15	1.30	**AI 0,75- 8 GY -1000**	**3200894**	1000
	0.75	18	gray	-	16.00	2.80	10.00	0.25	0.15	1.30	**AI 0,75-10 GY**	**3201288**	100
	0.75	18	gray	-	18.00	2.80	12.00	0.25	0.15	1.30	**AI 0,75-12 GY**	**3200849**	100
	1	18	red	-	12.00	3.00	6.00	0.30	0.15	1.50	**AI 1 - 6 RD**	**3200742**	100
	1	18	red	-	14.00	3.00	8.00	0.30	0.15	1.50	**AI 1 - 8 RD**	**3200030**	100
	1	18	red	-	14.00	3.00	8.00	0.30	0.15	1.50	**AI 1 - 8 RD -1000**	**3200904**	1000
	1	18	red	-	16.00	3.00	10.00	0.30	0.15	1.50	**AI 1 -10 RD**	**3200182**	100
	1	18	red	-	18.00	3.00	12.00	0.30	0.15	1.50	**AI 1 -12 RD**	**3200674**	100
	1.5[1])	16	black	-	12.00	3.40	6.00	0.30	0.15	1.80	**AI 1,5 - 6 BK**	**3200755**	100
	1.5	16	black	-	14.00	3.40	8.00	0.30	0.15	1.80	**AI 1,5 - 8 BK**	**3200043**	100
	1.5	16	black	-	14.00	3.40	8.00	0.30	0.15	1.80	**AI 1,5 - 8 BK -1000**	**3200917**	1000
	1.5	16	black	-	18.00	3.40	10.00	0.30	0.15	1.80	**AI 1,5 -10 BK**	**3200195**	100
	1.5	16	black	-	18.50	3.40	12.00	0.30	0.15	1.80	**AI 1,5 -12 BK**	**3201482**	100
	1.5	16	black	-	24.00	3.40	18.00	0.30	0.15	1.80	**AI 1,5 -18 BK**	**3200056**	100
	2.5	14	blue	-	14.00	4.20	8.00	0.30	0.15	2.30	**AI 2,5 - 8 BU**	**3200522**	100
	2.5	14	blue	-	14.00	4.20	8.00	0.30	0.15	2.30	**AI 2,5 - 8 BU -1000**	**3200920**	1000
	2.5[1])	14	blue	-	17.00	4.20	10.00	0.30	0.15	2.30	**AI 2,5 -10 BU**	**3202533**	100
	2.5	14	blue	-	18.00	4.20	12.00	0.30	0.15	2.30	**AI 2,5 -12 BU**	**3200962**	100
	2.5	14	blue	-	24.00	4.20	18.00	0.30	0.15	2.30	**AI 2,5 -18 BU**	**3200580**	100
	4	12	gray	-	17.00	4.80	10.00	0.30	0.20	2.80	**AI 4 -10 GY**	**3200535**	100
	4	12	gray	-	19.00	4.80	12.00	0.30	0.20	2.80	**AI 4 -12 GY**	**3200959**	100
	4	12	gray	-	26.00	4.80	18.00	0.30	0.20	2.80	**AI 4 -18 GY**	**3200593**	100
	6	10	yellow	-	20.00	6.20	12.00	0.30	0.20	3.50	**AI 6 -12 YE**	**3200548**	100
	6	10	yellow	-	26.00	6.20	18.00	0.30	0.20	3.50	**AI 6 -18 YE**	**3200603**	100
	10	8	red	-	22.00	7.50	12.00	0.30	0.20	4.60	**AI 10 -12 RD**	**3200551**	100
	10	8	red	-	28.00	7.50	18.00	0.30	0.20	4.60	**AI 10 -18 RD**	**3200616**	100
	16	6	blue	-	24.00	8.80	12.00	0.40	0.20	5.80	**AI 16 -12 BU**	**3200564**	100
	16	6	blue	-	28.00	8.80	18.00	0.40	0.20	5.80	**AI 16 -18 BU**	**3200629**	100
	25	4	yellow	-	30.00	11.00	16.00	0.50	0.20	7.30	**AI 25 -16 YE**	**3200577**	50
	25	4	yellow	-	32.00	11.00	18.00	0.50	0.20	7.30	**AI 25 -18 YE**	**3201505**	50
	25	4	yellow	-	35.00	11.00	22.00	0.50	0.20	7.30	**AI 25 -22 YE**	**3200700**	50
	35	2	red	-	30.00	12.50	16.00	0.50	0.20	8.30	**AI 35 -16 RD**	**3200441**	50
	35	2	red	-	32.00	12.50	18.00	0.50	0.20	8.30	**AI 35 -18 RD**	**3201495**	50
	35	2	red	-	39.00	12.50	25.00	0.50	0.20	8.30	**AI 35 -25 RD**	**3200713**	50
	50	1/0	blue	-	36.00	15.00	20.00	0.60	0.35	10.30	**AI 50 -20 BU**	**3200454**	50
	50	1/0	blue	-	40.00	15.00	25.00	0.60	0.35	10.30	**AI 50 -25 BU**	**3200726**	25
	70[1])	2	yellow	-	37.00	16.00	20.00	0.60	0.35	12.70	**AI 70 -20 YE**	**3201848**	25
	95[1])	4	red	-	44.00	18.00	25.00	0.60	0.35	14.70	**AI 95 -25 RD**	**3201853**	25
	120[1])	5	blue	-	48.00	21.00	27.00	0.70	0.45	16.70	**AI120 -27 BU**	**3201822**	25

Notes:

Please refer to the notes for the mounting flanges on page 36.



Additional fastening for horizontal and vertical MSTB headers

Description	Ordering data		
	Type	Order No.	Pcs. / Pkt.
Mounting flange, for fixing both ends of the header onto the PCB, with M2 x 14 screws and nuts	**MSTB-BF**	**1759981**	50
Keying tab, for MSTB headers, for dividing headers, plugged onto the header pin, made from green insulation material			
Pair of guide rails, inserted into the groove of ICV ...-G, for accommodating a printed circuit board (mother/daughter PCB connection) height: 86 mm, hole diameter: 3.4 mm			
Strain relief, for 5.08 mm pitch FKIC plugs, snapped into the latching chambers of the connection plugs			
4 to 7-pos.			
≥ 8-pos.			



Insertable keying tab

Ordering data		
Type	Order No.	Pcs. / Pkt.
MSTB-BL	**1755477**	100



Pair of guide rails for ICV...G

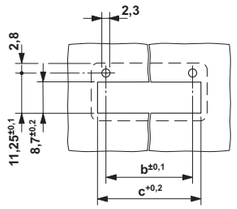
Ordering data		
Type	Order No.	Pcs. / Pkt.
FLRP/ICV 80	**1808353**	10



Pull-out aid for FKC connector with 5.08 mm pitch

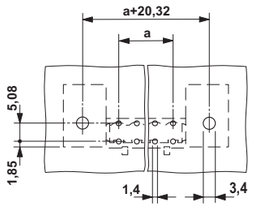
Ordering data		
Type	Order No.	Pcs. / Pkt.
STZ 4-FKC-5,08	**1876877**	50
STZ 8-FKC-5,08	**1876880**	50

WWW.DZYJZJ.COM

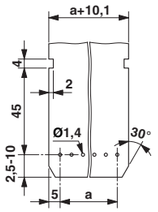


Sheet metal cutout dimensions for DFK-MC 1,5/...-GF, see page 240.

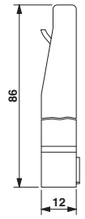
Number of positions	b	c
2	13.81	18.50
3	17.62	22.30
4	21.43	26.10
5	25.24	29.90
6	29.05	33.80
7	32.86	37.60
8	36.67	41.40
9	40.48	45.10
10	44.29	49.00
11	48.10	52.80
12	51.91	56.60
13	55.72	60.40
14	59.53	64.20
15	63.34	68.00
16	67.15	71.90



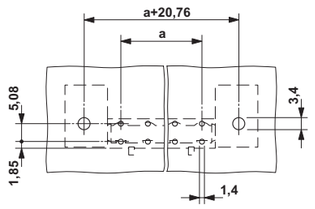
Drilling diagram for ICV 2,5/...-G-5,08 with FLRP-ICV 80, see page 333.



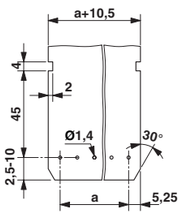
PCB cutout for ICV 2,5/...G-5,08 with FLRP-ICV 80, see page 333.



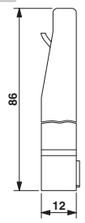
FLRP-ICV 80, see page 332.



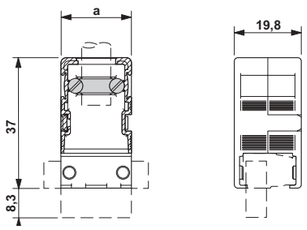
Drilling diagram for GICV 2,5/...-G-7,62 with FLRP-ICV, see page 347.



PCB cutout for GICV 2,5/...-G-5,08 with FLRP-ICV 80, see page 347.



FLRP-ICV 80, see page 346.

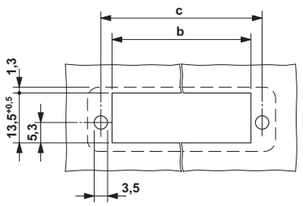


KGG-MSTB 2,5/., see page 348.

Cable housing	Plugs
KGG-MSTB 2,5/3	GMSTB 2,5/2-ST*
KGG-MSTB 2,5/4	GMSTB 2,5/3-ST
KGG-MSTB 2,5/6	GMSTB 2,5/4-ST*
KGG-MSTB 2,5/7	GMSTB 2,5/5-ST
KGS-MSTB 2,5/9	GMSTB 2,5/6-ST*
KGS-MSTB 2,5/10	GMSTB 2,5/7-ST
KGS-MSTB 2,5/12	GMSTB 2,5/8-ST*
KGS-MSTB 2,5/13	GMSTB 2,5/9-ST
KGS-MSTB 2,5/15	GMSTB 2,5/10-ST*
KGS-MSTB 2,5/16	GMSTB 2,5/11-ST
KGS-MSTB 2,5/18	GMSTB 2,5/12-ST*

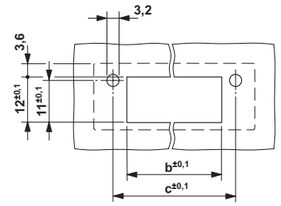
KGG-MSTB 2,5 and KGS-MSTB 2,5 can be combined with GMSTB 2,5/...ST and GMSTB 2,5/...ST-7,62.

* The cable housing pitch is approximately 2 mm wider than that of the plugs.

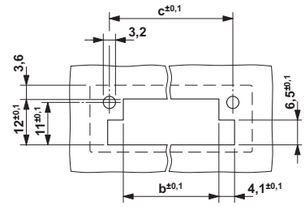


Sheet metal cutout dimensions for IC-DFR..., see page 350.

Number of positions	b	c
2	21.00	26.83
3	26.08	31.91
4	31.16	36.99
5	36.24	42.07
6	41.32	47.15
7	46.40	52.23
8	51.48	57.31
9	56.56	62.39
10	61.64	67.47
11	66.72	72.55
12	71.80	77.63
13	76.88	82.71
14	81.96	87.79
15	87.04	92.87
16	92.12	97.95

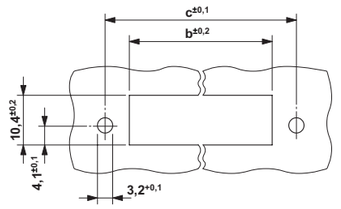


Sheet metal cutouts for DFK-MSTB 2,5/...-G, see page 352.



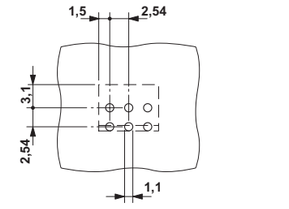
Sheet metal cutouts for DFK-MSTB 2,5/...-GF, see page 353.

Number of positions	5.0 pitch		5.08 pitch	
	b	c	b	c
2	12.7	20	13.18	20.32
3	17.7	25	18.26	25.40
4	22.7	30	23.34	30.48
5	27.7	35	28.42	35.56
6	32.7	40	33.50	40.64
7	37.7	45	38.58	45.72
8	42.7	50	43.66	50.80
9	47.7	55	48.74	55.88
10	52.7	60	53.82	60.96
11	57.7	65	58.90	66.04
12	62.7	70	63.98	71.12
13	67.7	75	69.06	76.20
14	72.7	80	74.14	81.28
15	77.7	85	79.22	86.36
16	82.7	90	84.30	91.44

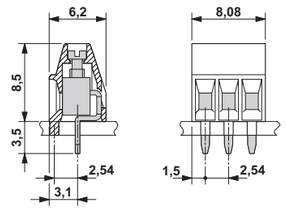


Sheet metal cutout dimensions for DFK-MSTB(V)A 2,5/...-G(F), see page 354.

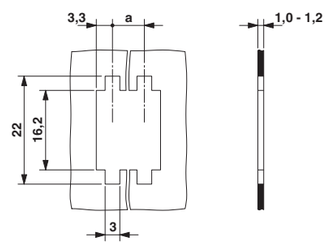
Number of positions	DFK...-G		DFK...-GF	
	b	c	b	c
2	12.54	19.76	20.65	29.92
3	17.62	24.84	25.73	35.00
4	22.70	29.92	30.81	40.08
5	27.78	35.00	35.89	45.16
6	32.86	40.08	40.97	50.24
7	37.94	45.16	46.05	55.32
8	43.02	50.24	51.13	60.40
9	48.10	55.32	56.21	65.48
10	53.18	60.40	61.29	70.56
11	58.26	65.48	66.37	75.64
12	63.34	70.56	71.45	80.72
13	68.42	75.64	76.53	85.80
14	73.50	80.72	81.61	90.88
15	78.58	85.80	86.69	95.96
16	83.66	90.88	91.77	101.04



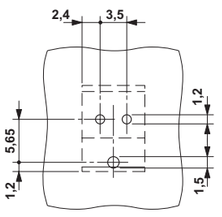
Drilling diagram for MPT 0,5/...-2,54, 2 to 3-pos.
The 2 and 3-pos. versions have an additional locating pin (1.5 mm long) to support the mechanical load.



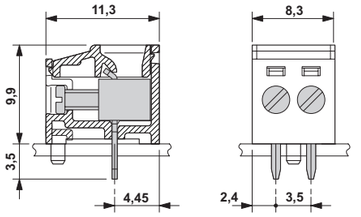
MPT 0,5/...-2,54, 2 to 3-pos., see page 83.



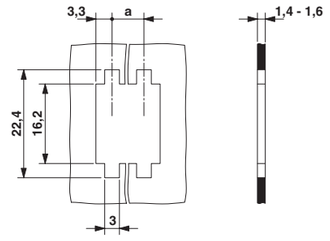
Panel feed-through for CIOC...FL, see page 65.
Dimension a = 6.5 mm



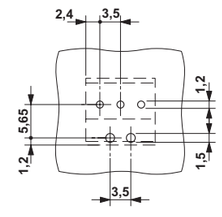
Drilling diagram for MKDSFW 1,5/2-3,5



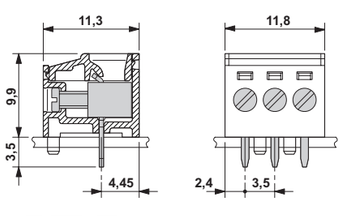
MKDSFW 1,5/2-3,5 with locating pin, see page 87.



Panel feed-through for CIOC...FL, see page 65.
Dimension a = 6.5 mm

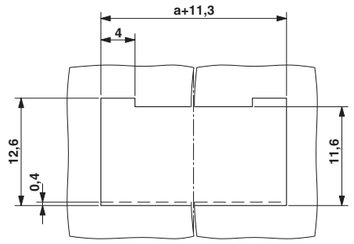


Drilling diagram for MKDSFW 1,5/3-3,5

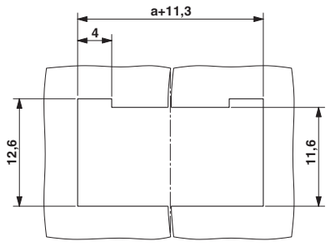


MKDSFW 1,5/3-3,5 with locating pin, see page 87.

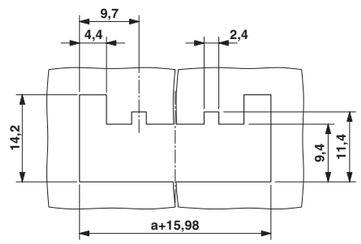
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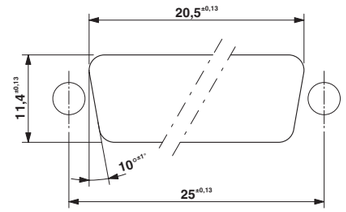
DMC 1,5/…-G1F-3,5-LR P20THR, see page 186.



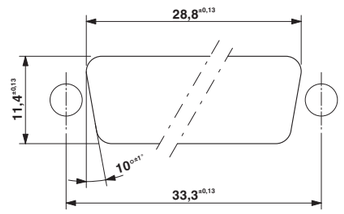
DMCV 1,5/…-G1F-3,5-LR P20THR, see page 187.



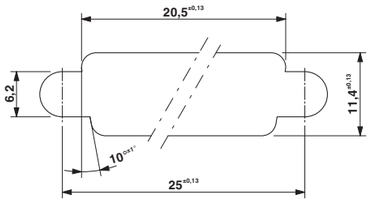
CC(V)2,5/…-GF-5,08-LR P26THR, see page 299.



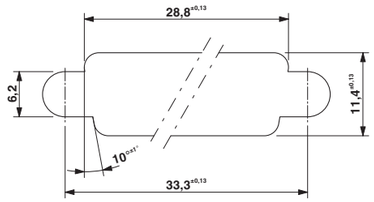
Mounting cutout according to DIN 41652-3
for panel thickness of up to 2.0 mm
PSC 1,5/3..M(-PE)
See page 251.



Mounting cutout according to DIN 41652-3
for panel thickness of up to 2.0 mm
PSC 1,5/5..M(-PE)
See page 251.



Mounting cutout according to DIN 41652-3
for panel thickness of up to 4.5 mm
PSC 1,5/3..M(-PE)
See page 251.



Mounting cutout according to DIN 41652-3
for panel thickness of up to 4.5 mm
PSC 1,5/5..M(-PE)
See page 251.

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Quality in quantity



Integrated management system

The aim of the Phoenix Contact integrated management system is to coordinate all the requirements regarding products, processes, and organization.

Statutory and regulatory requirements, as well as those of international standards and our customers, are met and, in some cases, even exceeded in all phases of the product lifecycle.

In the Phoenix Contact management system, the integration of quality, environmental protection, and safety in the workplace is monitored each year for conformance by internationally recognized independent bodies. Certification in accordance with international standards ISO 9001, ISO 14001, and BS OHSAS 18001 is the result of our corporate philosophy of meeting the needs of our customers, staff, and environment as best as possible. They serve as the basis for innovative products with the familiar high Phoenix quality standard, actively practiced environmental protection, and responsibility in the field of occupational health and safety. It goes without saying that we integrate all further requirements of standards, international approvals or special customer requirements into our company processes.

This system provides a building block for the success of the Phoenix Contact Group and its products and services.

CE marking

The CE mark was introduced as an important instrument for the free movement of goods and services within the single European market. By attaching the mark to a product, the manufacturer confirms that it complies with all applicable European Union (EU) directives. EC directives describe the product properties with regard to device safety and avoiding danger. These are legally binding regulations of the European Union (EU). In other words, compliance with the requirements is a **statutory condition for marketing the product within the EU**.

Where applicable, the products that our company currently manufactures fall within the scope of the following directives:

– 2006/95/EC
Electrical equipment designed for use within certain voltage limits (Low Voltage Directive)
– 2004/108/EC
Electromagnetic compatibility (EMC Directive)
– 2006/42/EC
Safety of machinery (Machinery Directive)
– 94/9/EC
Equipment and protective systems intended for use in potentially explosive areas (ATEX Directive 100a)
– 1999/5/EC
Radio and telecommunications terminal equipment (R&TTE)

The standards upon which the specified directives are based have been part of our standard of development for a long time. This guarantees conformance with European directives. The numbers of the directives indicate their version at the time of publication. In the event of changes to directives and/or standards, our products will undergo conformity assessment again in good time and a new declaration of conformity will be issued promptly. The current declarations for each product can also be found in our Download Center.

The EMC Directive occupies a special place among the European directives listed. It defines electromagnetic compatibility as a fundamental property of devices based on mandatory guidelines. European Law therefore acknowledges the electromagnetic compatibility of devices and systems as an important condition for error-free operation of machinery and systems. Phoenix Contact is one of the leading international companies in surge protection, and therefore possesses broad expertise in EMC. This expertise and the experience gained over years of developing and applying industrial interface and communication technology have resulted in our products having an extremely high standard of quality with regard to electromagnetic compatibility. It was with a view to providing other companies with this expertise that our associate company, Phoenix Testlab, was founded. Phoenix Testlab GmbH is an independent, accredited service provider offering EMC testing that conforms to European standards. At Phoenix Testlab, devices are also tested with regard to their electrical safety, mechanical influences, and their behavior in relation to environmental influences. Furthermore, Phoenix Testlab is a "Notified Body" in accordance with EMC Directive 2004/108/EC and according to R&TTE Directive 1999/5/EC for radio and telecommunications terminal equipment. As a "Telecom Certification Body" (TCB), Phoenix Testlab may also approve these products for markets in the USA, Canada, and Japan.

Standards and regulations

All relevant standards and regulations are used as the basis for the development and maintenance of our products.

International standards are subject to continuous changes as a result of harmonization and new developments. In line with this process, the current version of all standards that are relevant to our products is documented on the Internet at **www.phoenixcontact.net/products**.

Online product information service on the web

Phoenix Contact's product range is growing constantly.

Due to our commitment to product monitoring, all products are subject to improvement.

The Internet is an ideal platform to quickly communicate new product developments and improvements to the market.

You can quickly access the relevant Phoenix Contact website for your region via www.phoenixcontact.com. Here, you will always find the latest overview of products, solutions, and services from Phoenix Contact. This includes technical documents, such as data sheets and user manuals, the latest driver and demo software, plus a means of contacting the appropriate contact person directly.

Note:

Subject to changes that serve the purpose of technical progress.

Technical information

Degree of protection, properties of plastic, approvals

Connection cross section

The connection capacity for plug-in connectors and PCB terminal blocks is documented in the technical data. The connection capacity defines the conductor cross section which can be connected for conductors in solid (single and multi-strand) or stranded (fine-strand) versions. Cross section ranges are also specified for the use of ferrules. In addition, ranges where two conductors in solid and stranded versions are to be simultaneously connected are also mentioned.

Phoenix Contact PCB terminal blocks and plug-in connectors are designed to allow copper conductors to be connected to them untreated. "Special treatment" or the use of ferrules is not required. "Special treatment" includes tin-plating the litz wires of a conductor, using cable lugs, bending the eyes, etc. However, it does not include straightening the conductor before inserting it into the terminal block or twisting a multi-strand conductor in order to consolidate its ends.

If ferrules are nevertheless used to protect stranded conductors against splicing, the connection capacity of the stranded conductor is generally reduced by one level. Conductors must not be soldered ("soldering all litz wires of a conductor together").

It is always recommended that you use Phoenix Contact CRIMPFOX crimping tools to crimp ferrules.

Structure and dimensions of connecting cables

Cross section	Single-strand		Multi-strand		Fine-strand		American Wire Gauge [AWG]						
	Diameter Max. dimension	Number of wires	Diameter Max. dimension	Number of wires (minimum number)	Diameter Max. dimension	Number of wires (guide value)	Gauge No.		Solid wires			Stranded wires	
[mm²]							AWG	[∅ mm]	[circ. miles]	[mm²]	[∅ mm]	[circ. miles]	[mm²]
0.2	0.5	1	-	-	-	-	24	0.51	404	0.21	-	-	-
0.5	0.9	1	1.1	7	1.1	16	20	0.81	1022	0.52	0.97	1111	0.56
0.75	1.0	1	1.2	7	1.3	24	18	1.02	1620	0.82	1.16	1600	0.82
1	1.2	1	1.4	7	1.5	32	(17)	1.15	2050	1.04			
-	-	-	-	-	-	-	16	1.29	2580	1.31	1.50	2580	1.32
1.5	1.5	1	1.7	7	1.8	30	(15)	1.45	3260	1.65			
-	-	-	-	-	-	-	14	1.63	4110	2.08	1.85	4100	2.09
2.5	1.9	1	2.2	7	2.3	50	(13)	1.83	5180	2.63			
-	-	-	-	-	-	-	12	2.05	6530	3.31	2.41	6500	3.32
4	2.4	1	2.7	7	2.9	56	(11)	2.30	8230	4.17			
-	-	-	-	-	-	-	10	2.59	10380	5.26	2.95	10530	5.37
6	2.9	1	3.3	7	3.9	84	(9)	2.91	13100	6.63			
-	-	-	-	-	-	-	8	3.26	16510	8.37	3.73	16625	8.48
10	3.7	1	4.2	7	5.1	80	(7)	3.67	20800	10.56	4.15	20820	10.55
-	-	-	-	-	-	-	6	4.12	26240	13.30	4.67	26250	13.39
16	4.6	1	5.3	7	6.3	126	(5)	4.62	33100	16.77	5.24	33100	16.77
-	-	-	-	-	-	-	4	5.19	41740	21.15	5.90	41650	21.24
25	-	-	6.6	7	7.8	196	3	5.83	52600	26.67	6.61	52630	26.67
35	-	-	7.9	7	9.2	276	2	6.54	66360	33.62	7.42	66150	33.74
-	-	-	-	-	-	-	1	7.35	83690	42.41	8.33	83706	42.69
50	-	-	9.1	19	11	396	0	8.25	105600	53.51	9.35	104640	53.36
70	-	-	11	19	13.1	360	00	9.27	133100	67.44	10.52	132300	67.47

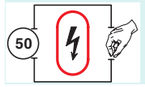
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Degrees of protection according to DIN EN 60529

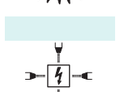
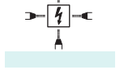
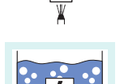
Definition:

IP (Ingress Protection) protection according to DIN EN 60529 is defined by two digits (e.g., IP54), the meaning of which is explained in the following tables.

Degree of protection against access to dangerous parts and against solid foreign objects

First digit	Short description	Example	Definition
0	Not protected		
1	Protected against solid foreign objects		Protected against touching dangerous parts with the back of the hand. Protection against ingress of solid foreign objects with Ø > 50 mm.
2	Protected against solid foreign objects with Ø 12.5 mm or more		Protected against touching dangerous parts with a finger. Protection against ingress of solid foreign objects with Ø > 12.5 mm.
3	Protected against solid foreign objects with Ø 2.5 mm or more		Protected against touching dangerous parts with a tool. Protection against ingress of solid foreign objects with Ø > 2.5 mm.
4	Protected against solid foreign objects with Ø 1 mm or more		Protected against touching dangerous parts with a wire. Protection against ingress of solid foreign objects with Ø > 1 mm.
5	Protected against dust		Protected against touching dangerous parts with a wire. The ingress of dust is not completely prevented, but dust may not enter in such an amount that the satisfactory operation of the device or its safety is impaired.
6	Dust-proof		Protected against touching dangerous parts with a wire. No ingress of dust.

Degree of protection against water

Second digit	Short description	Example	Definition
0	Not protected		
1	Protected against dripping water		Vertically falling drops shall have no effect.
2	Protected against dripping water if the housing is inclined at an angle of up to 15°		Vertically falling drops shall have no effect if the housing is inclined at an angle of up to 15° either side of the vertical.
3	Protected against spray water		Water that is sprayed at an angle of up to 60° either side of the perpendicular shall have no harmful effect.
4	Protected against splash water		Water that splashes against the housing from any direction shall have no harmful effect.
5	Protected against jet water		Water that is directed as a jet against the housing from every direction shall have no harmful effect.
6	Protected against powerful jet water		Water that is directed as a strong jet against the housing from every direction shall have no harmful effect.
7	Protected against the effect of temporary submersion in water		Water may not penetrate in a harmful quantity when the housing is temporarily submerged in water under standard pressure and time conditions.
8	Protected against the effect of continuous submersion in water		Water may not penetrate in a harmful quantity when the housing is submerged in water continuously under conditions to be agreed between the manufacturer and user.
9K	Protected against water during high-pressure and jet-stream cleaning		Water that is directed against the housing under extremely high pressure from every direction shall have no harmful effect. (Example: IP69K according to DIN 40050 Part 9)

For safety reasons, electrical equipment must be protected against external influences. This is the job of the housing, which protects electrical equipment against contact, the penetration of solid objects, dust, and moisture.

The following table contains possible combinations of degrees of protection according to DIN EN 60529 which can be practically applied to housing.

Shock protection	Foreign object protection	Protection against water	No protection	Protection against vertically falling dripping water	Protection against dripping water if the housing is inclined at an angle of up to 15°	Protection against spray water from all directions, even when inclined at an angle of up to 60°	Protection against splash water from all directions	Protection against jet water from all directions	Protection against powerful jet water from all directions	Protection against temporary submersion	Protection against the effects of continuous submersion in water	Protected against water during high-pressure and jet-stream cleaning (DIN 40050-9)
			IPx0	IPx1	IPx2	IPx3	IPx4	IPx5	IPx6	IPx7	IPx8	IPx9K
No shock protection	No protection against solid foreign objects	IP0x	IP00									
Back of hand safe	Protection against solid foreign objects > 50 mm Ø	IP1x	IP10	IP11	IP12							
Touch proof	Protection against solid foreign objects > 12.5 mm Ø	IP2x	IP20	IP21	IP22	IP23						
Protection against touching with tools, wires, etc. > 2.5 mm Ø	Protection against solid foreign objects > 2.5 mm Ø	IP3x	IP30	IP31	IP32	IP33						
Protection against touching with tools, wires, etc. > 1 mm Ø	Protection against solid foreign objects > 1.5 mm Ø	IP4x	IP40	IP41	IP42	IP43	IP44					
Protection against touching with tools, wires, etc. > 1 mm Ø	Protection against harmful dust accumulations inside the device	IP5x	IP50				IP54	IP55				
Protection against touching with tools, wires, etc. > 1 mm Ø	No ingress of dust	IP6x	IP60					IP65	IP66	IP67	IP68	IP69K

Our insulation housing is made from various thermoplastic materials. Depending on the application, the best-suited material is selected based on its electrical and mechanical properties.

All plastics used by Phoenix Contact are RoHS-compliant.

All plastics used at Phoenix Contact have been listed with UL (Underwriters Laboratories Inc.) in the USA.

Behavior of plastics under the influence of temperature (operating temperatures)

All plastics undergo thermal aging when they are subjected to heat over long periods. This process causes changes in the mechanical and electrical properties of the material. External influences, e.g., radiation, additional mechanical, chemical or electrical stresses, amplify this effect. All characteristic data included in the table has been determined using samples and so provides a good means of drawing comparisons between different plastics. However, applying these characteristics to an evaluation of molded plastic parts is only possible to a limited extent, and can only give the designer a rough guide when it comes to selecting a plastic material. This catalog uses RTI Elec according to UL746B as an assessment criterion for temperature resistance.

Insulation materials

Polyamide: PA and PA-GF

Polyamide has excellent electrical, mechanical, and chemical properties even at high operating temperatures. Brief peak temperatures up to approximately 200°C are permitted as a result of heat aging stabilization. The absorption of water makes the plastic flexible and resistant to breakage, even at low temperatures.

Fiber-reinforced polyamides feature greater rigidity and hardness as well as operating temperatures higher than those of non-reinforced materials.

Polyamide for high-temperature applications: PA HT and PA-GF HT

Special high-temperature-resistant types of polyamide are used in non-reinforced or fiberglass-reinforced variants for reflow applications. These high-temperature polyamides combine the excellent electrical properties of polyamide and the requirements of the reflow soldering process for temperature resistance.

Liquid crystal polymers: LCP GF

LCP combines high temperature stability with excellent dimensional stability and creeping resistance for products used in reflow processes. LCP has exceptional mechanical properties across a wide temperature range and a very low thermal expansion.

Polyester: PBT and PBT-GF

We use thermoplastic polyester in non-reinforced and fiberglass-reinforced variants for special applications which require increased dimensional and form stability.

In addition to the high operating temperature, the material is characterized by good mechanical strength and hardness, as well as excellent notched impact strength. PBT does not absorb moisture from its surroundings. PBT is therefore particularly suitable for strips, for example, which are soldered onto PCBs.

Polycarbonate: PC

Polycarbonate combines many advantages such as rigidity, impact strength, transparency, dimensional stability, good insulation properties, and resistance to heat.

The amorphous material only absorbs moisture to a very limited degree, and is used for items such as large, rigid electronic component housing.

In its transparent form, polycarbonate is particularly suitable for use as cover profiles or marking materials.

Acrylonitrile butadiene styrene: ABS

We use ABS for products which must have good impact and notched impact properties in addition to high mechanical stability and rigidity. The products are also characterized by their special surface quality and hardness.

ABS is suitable for coating metallic surfaces, e.g., nickel.

Polyvinyl chloride: PVC

While most thermoplastic materials are processed with injection molding using ready-to-use molding and extrusion material, PVC is processed as a powder in the extruder. This is why it is used in our profile products. PVC is also self-extinguishing without flame protection and has high mechanical strength but is notch-sensitive.

Polyoxymethylene: POM

Polyoxymethylene is a technical material that combines high rigidity with mechanical stability, excellent elastic properties, high tenacity, dimensional accuracy, and exceptional sliding friction behavior.

Polyethylene: PE

Polyethylene is characterized by excellent chemical resistance and electrical insulation properties. PE is thermoplastic and can therefore be processed using almost all procedures. Furthermore, PE has excellent tenacity even at low temperatures and a good elongation at break.

Polypropylene: PP

PP has higher rigidity, hardness, and stability and is more heat-resistant than PE. PP is not as tough at low temperatures, however.

Thermoplastic polyurethane: TPU and TPU-GF

TPU is characterized by excellent electrical properties, a good surface feel, a high degree of flexibility over a wide temperature range, and high resistance to wear. Thermoplastic polyurethanes are also elastic and low-temperature impact resistant.

In contrast to non-reinforced materials, fiberglass-reinforced TPU is characterized by high rigidity and hardness.

Irradiated ethylene-propylene-diene polymer/polypropylene: EPDM-PP

EPDM-PP is a polymer blend of PP and irradiated EPDM. EPDM-PP is a rubber-like material which can be processed using thermoplastic procedures. EPDM-PP combines high temperature resistance, a low compression set, and excellent resistance to abrasion and chemicals.

Acrylonitrile butadiene styrene rubber: NBR

NBR is a rubber with excellent resistance to aging. It also features excellent resistance to abrasion and low plastic flow. Its elasticity is lower than other rubbers.

Fluorinated rubber: FPM

FPM rubbers are characterized by very high temperature resistance, but behave less favorably at low temperatures than other rubbers.

Chlorine-butadiene rubber: CR

CR rubber stands out against other rubbers with its excellent resistance to weather and ozone.

Properties	Standard	Unit	PA	PA GF	PA HT	PA GF HT	PBT	PBT GF	LCP GF	PC	ABS	PVC	POM	PP	UP
RTI Elec[1)]	UL 746B	°C	≥ 105	≥ 105	≥ 105	≥ 105	≥ 105	≥ 105	≥ 130	≥ 105	≥ 80	≥ 50	≥ 105	65	50
Minimum temperature for use (without mechanical load)		°C	-40	-40	-40	-40	-40	-40	-40	-40	-40	-15	-40	-40	-40
Dielectric strength	IEC 60243-1/ DIN VDE 0303-21	kV/cm	600	400		> 200	400	400		> 300	850		850		
Creep resistance CTI...	IEC 60112/ DIN VDE 0303-1		600	400	≥ 250	225	600	225	175	175	600	600	600		
Creep resistance CTI...M	IEC 60112/ DIN VDE 0303-1		550	250			600	225		175	600	600	600		
Inflammability class	UL 94	HB - V0	V2, V0	HB, V0	V0	V0	V0	V0	V0	V2, V0		V0	HB	HB	HB
Tropical and termite resistance			Good	Good			Good			Good					

1) Possible at "≥" higher temperatures, but not recommended due to increased aging of plastics and insufficient current carrying capacity.

Properties	Standard	Unit	TPU	TPU GF	EPDM/ PP
RTI Elec	UL 746B	°C	50	50	100
Minimum temperature for use (without mechanical load)		°C	-40	-40	-40
Dielectric strength	IEC 60243-1/ DIN VDE 0303-21	kV/cm	35	35	
Creep resistance CTI...	IEC 60112/ DIN VDE 0303-1		600	600	600
Creep resistance CTI...M	IEC 60112/ DIN VDE 0303-1		600		
Inflammability class	UL 94	HB - V0	V2	HB	HB
Chemical resistance	See chemical resistance table				

Properties	Standard	Unit	NBR	FPM	CR
Operating temperature		°C	£ 100	£ 200	£ 100
Minimum temperature for use (without mechanical load)		°C	-40	-25	-40
Dielectric strength	IEC 60243-1/ DIN VDE 0303-21	kV/cm	Not relevant as these are sealing materials		
Creep resistance CTI...	IEC 60112/ DIN VDE 0303-1				
Creep resistance CTI...M	IEC 60112/ DIN VDE 0303-1				
Inflammability class	UL 94	HB - V0			

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Chemicals	Concentration in %	Temperature in °C	Plastics: PA 66/PA 6	PA 66 GF	PA 46 GF	PC GF	POM	NBR	PP	EPDM	PBT	PUR	PUR irradiated*	PVC-P (soft)	PE-LD	TPU	FPM (Viton)	CR (neoprene)
Acetaldehyde			0	0	0	-	0	-	-	0		+	+	+	0	0	-	0
Acetate			+	+	+	0	0	-	+	0	0	+	+	-	-	-	-	-
Acetic acid	20		-	-	0	0	+	-	+	+	+	0	0	0	+	-	-	0
Acetone		20	+				+	-	+	+	0	0	0	-	+	-	-	0
Acetophenone			+	+	+	0	0	-	+	0	0	+	+	-	-	-	-	-
Alcohols			0	0	0	0	+	0	+	+	+	+	+	-	+	+	0	+
Aldehyde			0	0	0	-	0	-	-	0		+	+	+	0	-	0	0
Alkalis, strong			0	-	-	-	+	-	+		+	-	-	+	0	0	-	-
Alkalis, weak			+	+	+	-	+	0	+	+	+	+	+	+	+	0	+	0
Amines			+	+	+	-	0	-	-	0	+	+	+	+	0	-	-	-
Ammonia	10	20	+				+	0	+	+	+	+	+	0	+	0	-	+
Benzaldehyde			0	0	0	-	0	-	-	0		+	+	+	0	0	-	0
Benzine		20	+	+	+	0	+	0	0	-	+	+	+	-	-	-	+	-
Benzol		50	+	+	+	+	0	-	0	-	+	0	0	-	0	-	0	-
Benzophenone		20	+	+	+	0	0	-	+	0	0	+	+	-	-	-	+	-
Boracic acid	100	20	0				0	+		+	+	0	0	0	+	+	+	+
Brake fluid		100	+				+	-		+	+	-	-	0	+	-	-	-
Butyric acid			-	-	0	0	+	0	+	+	+	0	0	+	+	-	0	0
Citric acid	10		+				+	+	+	+	+			+	+	+	+	+
Cyclohexanone			+	+	+	0	0	-	+	0	0	+	+	-	-	-	-	-
Detergent alkalis	2	100	0				+	+		+	+	+	+	-	+	+	+	0
Diesel oil			+				+	+	+	-	+	+	+	-	+	-	+	-
Diethylamine			+	+	+	-	0	-	-	0	+	+	+	+	-	-	-	-
Dimethylamine			+	+	+	-	0	-	-	0	+	+	+	+	0		-	-
Ester			+	+	+	0	-	-	-	0	+	+	+	-	+	-	-	-
Ethanol			0	0	0	0	+	0	+	+	+	+	+	-	+	+	+	+
Ether			+	+	+	-	0	-	0	0	+	+	+	-	0	+	-	-
Formaldehyde			0	0	0	-	0	-	-	0		+	+	+	0	0	+	0
Formic acid			-	-	0	0	+	-	+	+	+	0	0	-	+	0	0	+
Fuels			+	+	+	0	+	0	0	-	+	+	+	-	-	-	+	-
Gear oil		100	+				+	+		-	+	+	+	+	+	-	+	-
Glacial acetic acid		50		-	-	-	-	-	0	+	-	-	-	-	+		-	-
Greases			+	+	+	+	+	+	0	0				0	+	-	+	0
Halogens (fluorine, chlorine, bromine, iodine)			-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-
Hydraulic oil		20	+				0	+		-	+	+	+	-	+	-	+	-
Hydrocarbons, aliphatic			+	+	+	+	+	+	0	0	+	+	+	-	+	+	+	-
Hydrocarbons, aromatic			+	+	+	-	0	-	0	0	0	+	+	-	-	-	+	-
Hydrocarbons, chlorinated			0	0	0	-	+	-	-	-	0	-	-	-	-	-	+	-
Hydrocarbons, unsaturated chlorinated			0	0	0	-	+	-	-	-	0	0	0	-	-	-	+	-
Hydrochloric acid		20	-				-	0	+	0	0	-	-	-	+	0	+	0
Inorganic salt solutions			+	+	+	-	+	+	+	+	+	+	+	+	+	+	+	
Kerosene		20	+				+				+	+	+	-	0	-	+	-
Ketones			+	+	+	0	0	-	+	0	0	+	+	-	-	-	-	-
Lactic acid	10	20	+				+	+	+	+	+	+	+	-	+	+	+	+
Machine oil			+				+				+	+	+	0	+	-	+	-
Metal chloride			+	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+
Metal nitrate			+	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+
Metal sulfate			+	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+
Methanol			0	0	0	0	+	0	+	+	+	+	+	-	+	+	-	+
Methylamine			+	+	+	-	0	-	-	0	+	+	+	+	+	0	0	-
Mineral oil			+	+	+		+	+	+	-	+	+	+	-	+	-	+	-
Motor oil		120	+	+	+	0	+	+	+	-	+	+	+	-	+	-	+	-
Nitric acid	30	20	-	0	-	0	-	-	+	0	0	0	0	-	+	-	+	-
Nitrobenzene			0				0	-		0	+	-	-	-	0	+	0	-
Ozone			0	0	0	-	0	-	+	+	+	0	0	+	+	0	+	-
Potassium hydroxide solution			+	+	+	-	+	0	+		-	+	+	+	+	0	+	-
Propyl alcohol			0	0	0	0	+	0	+	+	+	+	+	-	+	+	+	+
Seawater		20	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Sodium hydroxide solution	50	50	0	0	+	-	+	+	+	+	-	+	+	+	+	0	0	0
Sulfuric acid	50	50	-	0	-	0	-	-	+	+	-	0	0	+	+	0	+	-
Turpentine			0	0	0	+	-	+	-	-	+	0	0	-	-	-	+	-
UV resistance			+	+	+	0	0	-	-		+	+	+	0	0	+	+	
Water (dist.)		20												+				
Water, cold			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Water, hot			-	-	-	-	+	+	+	+	-	+	+	+	+	0	+	0

- \- Not resistant
- 0 Moderately resistant
- \+ Resistant

* The irradiated PUR type is generally more resistant than the non-irradiated type. This cannot be quantified and must be checked in individual cases.
The information in the table has been gathered from the recommendations of our plastic suppliers.
Since individual operating conditions can also affect the usability of each product, this information should be used as a guide only.
For applications where no prior experience exists, we recommend that the user carries out preliminary tests.

Insulation coordination for equipment within low-voltage systems

Dimensioning of air and creepage distances according to DIN EN 60664-1/ VDE 0110-1.

This part of the standard, based on IEC 60664, contains specifications for the insulation coordination of items of equipment in low-voltage systems. This part is applicable for items to be used at a height of up to 2000 m above sea level. This basic safety standard is primarily aimed at technical committees, and if suitable product directives are not available for an item, it can be used at one's own responsibility. International and European product standards cited in this catalog contain specifications for insulation coordination in accordance with DIN EN 60664/VDE 0110-1.

Insulation coordination

Insulation coordination includes the selection of electrical insulation properties for items as regards intended applications and ambient conditions. Separate requirements must be applied for air and creepage distances and for rigid insulation. The surge voltages to be expected, characteristics of surge protective devices, and pollution at the intended site must be considered when dimensioning clearances. Clearances are then dimensioned according to the external or internal surge voltages to be expected. Different surge voltages, grouped into categories, i.e., a value that determines an impulse withstand voltage, ascertain the required clearance directly. These surge voltage categories (I to IV) are mainly based on a statistical study, and are used for the items that are directly supplied by low-voltage networks. Definitions of the individual categories are provided below as an extract of DIN EN 60664/VDE 0110-1.

The clearances can be calculated according to Table 2 (minimum clearances) depending on the homogeneity level of the field between the electrodes (case A – non-homogeneous field, case B – homogeneous field).

Clearances according to case A are capable of withstanding the assigned surge voltages under all conditions. Items that are dimensioned according to case A can therefore be used without any further testing. Clearance values according to case B are based on ideal conditions. Clearance values which fall between case A and case B must be proven by means of a surge voltage test.

The voltages present, the properties of insulation materials, the pollution to be expected, and safety measures against pollution are considered when dimensioning creepage distances.

The effect of pollution is considered when determining the air and creepage distances according to three intensity levels (pollution degree 1 to 3).

The creepage distance is based on the rated voltage that is derived from the working voltage or nominal mains voltage. The minimum creepage distances are assigned to the rated voltages according to the pollution degree in Table 4.

If the respective product descriptions do not contain any additional specifications, the products presented in this catalog are dimensioned for surge voltage category III and pollution degree 3 according to this regulation (DIN EN 60664-1/VDE 0110-1).

Surge voltage categories I to IV

– Items in **surge voltage category IV** can be used at the terminal point of the installation.
Note: examples of such items include electricity meters and primary devices for overcurrent protection.
– Items in **surge voltage category III** can be used in fixed installations and are intended for such cases where there are special requirements for the reliability and availability of the items.
Note: examples of such items include switches in fixed installations and items for industrial use with permanent connection to the fixed installation.
– Items in **surge voltage category II** are power-consuming items that are supplied by the fixed installation.
Note: examples of such items include household appliances, portable tools, other domestic appliances, and similar devices.
– Items in **surge voltage category I** can be connected to circuits where measures have been taken to limit the surge voltages to a suitable lower value.

Pollution degrees 1 to 4

The following four pollution degrees have been defined for the micro-environment in order to determine air and creepage distances:

– Pollution degree 1
No contamination or only dry, non-conductive contamination is present. The contamination has no influence.
– Pollution degree 2
Only non-conductive contamination is present. Temporary conductivity due to condensation must occasionally be taken into consideration, however.
– Pollution degree 3
Conductive contamination or dry, non-conductive contamination is present which becomes conductive, since condensation is expected.
– Pollution degree 4
Permanent conductivity is present, caused by conductive dust, rain or moisture.

Insulation material

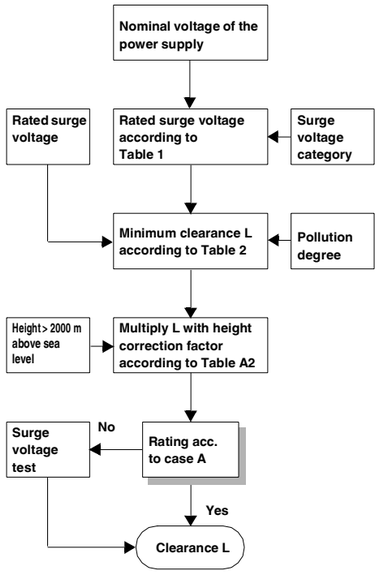
DIN EN 60664/VDE 0110-1 classifies insulation materials into four groups depending on their CTI values that were obtained using solution A in accordance with IEC 60112. These are:
Insulation material group I:
600 ≤ CTI
Insulation material group II:
400 ≤ CTI < 600
Insulation material group IIIa:
175 ≤ CTI < 400
Insulation material group IIIb:
100 ≤ CTI < 175

The comparative tracking index of the creepage distance must have been determined based on suitable samples using test solution A as specified in DIN IEC 60112.

The proof tracking index of the creepage distance (PTI) is used as proof of the creepage current properties of insulation materials.

Dimensioning of clearances

Schematic for determining clearances



Altitude correction factors (extract from Table A.2)

Height in m	Normal air pressure in kPa	Multiplication factor for gaps
2000	80.0	1.00
3000	70.0	1.14
4000	62.0	1.29
5000	54.0	1.48
6000	47.0	1.70
7000	41.0	1.95
8000	35.5	2.25
9000	30.5	2.62
10000	26.5	3.02
15000	12.0	6.67
20000	5.5	14.50

Rated surge voltages for items that are directly supplied by the low-voltage network (extract from Table 1)

Nominal voltage of the power supply system [1] (mains) acc. to IEC 60038 [3] [V]		Conductor-neutral conductor voltage derived from the total nominal AC voltage or nominal DC voltage	Rated surge voltage [2] [V] Surge voltage category [4]			
Three-phase	Single-phase	[V]	I	II	III	IV
	120 to 240	50	330	500	800	1500
		100	500	800	1500	2500
		150	800	1500	2500	4000
230/400 277/480		300	1500	2500	4000	6000
400/690		600	2500	4000	6000	8000
1000		1000	4000	6000	8000	12000

[1]) Refer to Appendix B for application in existing deviating low-voltage networks and their nominal voltages.

[2]) Items with this rated surge voltage may be used in systems in accordance with IEC 60364-4-443.

[3]) The slash, i.e., /, indicates a three-phase 4-conductor system. The lower value is the conductor-to-neutral conductor voltage, whereas the higher value is the conductor-to-conductor voltage. When only one value is specified, it refers to a three-phase 3-conductor system, and indicates the conductor-to-conductor voltage.

[4]) Refer to 2.2.2.1.1 for an explanation of surge voltage categories.

Minimum clearances for surge voltages (extract from Table 2)

Required impulse withstand voltage [1] [5]	Condition A Non-homogeneous field (refer to 1.3.15) Pollution degree [6]			Condition B Homogeneous field (refer to 1.3.14) Pollution degree [6]		
	1 [mm]	2 [mm]	3 [mm]	1 [mm]	2 [mm]	3 [mm]
0.33 [2])	0.01			0.01		
0.40	0.02			0.02		
0.5 [2])	0.04	0.2 [3] [4])		0.04		
0.60	0.06			0.06	0.2 [3] [4])	
0.80 [2])	0.10		0.8 [4])	0.10		0.8 [4])
1.0	0.15			0.15		
1.2	0.25	0.25		0.2		
1.5 [2])	0.5	0.5		0.3	0.3	
2.0	1.0	1.0	1.0	0.45	0.45	
2.5 [2])	1.5	1.5	1.5	0.6	0.6	
3.0	2.0	2.0	2.0	0.8	0.8	
4.0 [2])	3	3	3	1.2	1.2	1.2
5.0	4	4	4	1.5	1.5	1.5
6.0 [2])	5.5	5.5	5.5	2	2	2
8.0 [2])	8	8	8	3	3	3
10	11	11	11	3.5	3.5	3.5
12 [2])	14	14	14	4.5	4.5	4.5
15	18	18	18	5.5	5.5	5.5
20	25	25	25	8	8	8
25	33	33	33	10	10	10
30	40	40	40	12.5	12.5	12.5
40	60	60	60	17	17	17
50	75	75	75	22	22	22
60	90	90	90	27	27	27
80	130	130	130	35	35	35
100	170	170	170	45	45	45

[1]) This voltage is:
– For function insulation: the highest surge voltage expected for the clearance
– For basic insulation, if influenced directly or considerably by surge voltages from the low-voltage network: the item's rated surge voltage
– For a different basic insulation: the highest surge voltage possible in the circuit

[2]) Preferred values

[3]) For PCBs, the values of pollution degree 1 are applicable, except that no deviation below the value of 0.04 mm is permitted, as specified in Table 4.

[4]) Minimum clearances for pollution degrees 2 and 3 are based on the corresponding creepage distances. This resistance is reduced due to the effects of humidity.

[5]) Values can be interpolated for parts or circuits within items that are subjected to surge voltages.

[6]) The distances for pollution degree 4 are equal to those for pollution degree 3, except that the minimum clearance is 1.6 mm.

Test currents according to IEC 60947-7-1/EN 60947-7-1, Table 5

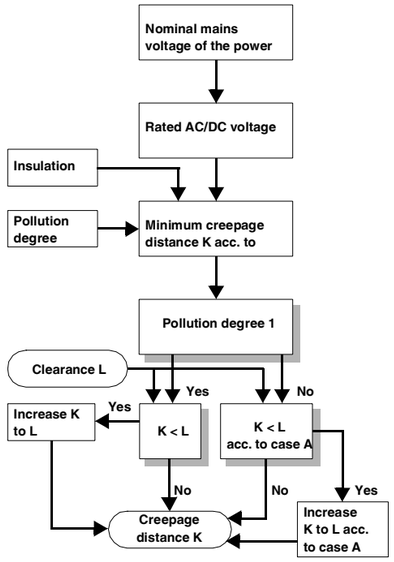
Rated cross section	[mm²]	0.2	0.5	0.75	1.0	1.5	2.5	4	6	10	16
Test current	[A]	4	6	9	13.5	17.5	24	32	41	57	76
Rated cross section	[mm²]	25	35	50	70	95	120	150	185	240	300
Test current	[A]	101	125	150	192	232	269	309	353	415	520

Current carrying capacity

Standard IEC 60947-7-1/ EN 60947-7-1/DIN VDE 0611-1 specifies the test currents for the individual conductor cross sections listed in the adjacent table. The corresponding currents are listed with the connection data for the individual products.

Dimensioning of creepage distances

Schematic for determining creepage distances



Single-phase 3 or 2-conductor AC or DC voltage systems (extract from Table 3a)

Nominal voltage of the power supply system (mains) *)	Voltages for Table 4 for conductor-conductor insulation [1] All systems	for conductor-ground insulation [1] 3-conductor systems center point grounded
[V]	[V]	[V]
12.5	12.5	–
24 25	25	–
30	32	–
42 48 50 **)	50	–
60	63	–
30 - 60	63	32
100 **)	100	–
110 120	125	–
150 **)	160	–
220	250	–
110 - 220 220 - 240	250	125
300 **)	320	–
220 - 440	500	250
600 **)	630	–
480 - 960	1000	500
1000 **)	1000	–

[1]) Conductor-ground insulation levels for non-grounded systems or those grounded through impedance correspond to conductor-conductor insulation levels as the operating voltage of every conductor to ground can, in practice, reach the conductor-conductor voltage. This is due to the fact that the actual voltage to ground is determined by the insulation resistance and the capacitive reactance of each conductor to ground. A low (but permissible) insulation resistance of one conductor can thereby practically ground it and increase the other two to conductor-conductor voltage to ground.

*) Refer to 2.2.1 for correlation with the rated voltage.

**) These values correspond to the values in Table 1.

Three-phase 4 or 3-conductor AC voltage systems (extract from Table 3b)

Nominal voltage of the power supply system (mains) *)	Voltages for Table 4 for conductor-conductor insulation All systems	Insulation for conductor-ground Three-phase 4-conductor systems with grounded neutral conductor [2]	Three-phase 3-conductor systems non-grounded [1] or conductor grounded
[V]	[V]	[V]	[V]
60	63	32	63
110/120/127	125	80	125
150 **)	160	–	160
208	200	125	200
220/230/240	250	160	250
300 **)	320	–	320
380/400/415	400	250	400
440	500	250	400
480/500	500	320	500
575	630	400	630
600 **)	630	–	630
660/690	630	400	630
720/830	800	500	800
960	1000	630	1000
1000 **)	1000	–	1000

[1]) Conductor-ground insulation levels for non-grounded systems or those grounded through impedance correspond to conductor-conductor insulation levels as the operating voltage of every conductor to ground can, in practice, reach the conductor-conductor voltage. This is due to the fact that the actual voltage to ground is determined by the insulation resistance and the capacitive reactance of each conductor to ground. A low (but permissible) insulation resistance of one conductor can thereby practically ground it and increase the other two to conductor-conductor voltage to ground.

[2]) For items designed for use in three-phase 4-conductor and three-phase 3-conductor systems, grounded as well as non-grounded, only the values for 3-conductor systems may be used.

*) Refer to 2.2.1 for correlation with the rated voltage.

**) These values correspond to the values in Table 1.

Creepage distances to prevent failures occurring due to creepage (extract from Table 4)

Voltage [1] r.m.s. value	Minimum creepage distances Printed circuits Pollution degree 1 All insulation material groups	Printed circuits Pollution degree 2 All insulation material groups except IIIb	Pollution degree 1 All insulation material groups	Pollution degree 2 Insulation material group I	II	III	Pollution degree 3 Insulation material group I	II	III [2])
[V]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
10	0.025	0.04	**0.08**	**0.40**	**0.40**	**0.40**	**1.00**	**1.00**	**1.00**
12.5	0.025	0.04	**0.09**	**0.42**	**0.42**	**0.42**	**1.05**	**1.05**	**1.05**
16	0.025	0.04	**0.10**	**0.45**	**0.45**	**0.45**	**1.10**	**1.10**	**1.10**
20	0.025	0.04	**0.11**	**0.48**	**0.48**	**0.48**	**1.20**	**1.20**	**1.20**
25	0.025	0.04	**0.125**	**0.50**	**0.50**	**0.50**	**1.25**	**1.25**	**1.25**
32	0.025	0.04	**0.14**	**0.53**	**0.53**	**0.53**	**1.30**	**1.30**	**1.30**
40	0.025	0.04	**0.16**	**0.56**	**0.80**	**1.10**	**1.4**	**1.6**	**1.8**
50	0.025	0.04	**0.18**	**0.60**	**0.85**	**1.20**	**1.5**	**1.7**	**1.9**
63	0.040	0.63	**0.20**	**0.63**	**0.90**	**1.25**	**1.6**	**1.8**	**2.0**
80	0.063	0.10	**0.22**	**0.67**	**0.95**	**1.3**	**1.7**	**1.9**	**2.1**
100	0.10	0.16	**0.25**	**0.71**	**1.00**	**1.4**	**1.8**	**2.0**	**2.2**
125	0.16	0.25	**0.28**	**0.75**	**1.05**	**1.5**	**1.9**	**2.1**	**2.4**
160	0.25	0.40	**0.32**	**0.80**	**1.1**	**1.6**	**2.0**	**2.2**	**2.5**
200	0.40	0.63	**0.42**	**1.00**	**1.4**	**2.0**	**2.5**	**2.8**	**3.2**
250	0.56	1.00	**0.56**	**1.25**	**1.8**	**2.5**	**3.2**	**3.6**	**4.0**
320	0.75	1.60	**0.75**	**1.60**	**2.2**	**3.2**	**4.0**	**4.5**	**5.0**
400	1.00	2.00	**1.00**	**2.00**	**2.8**	**4.0**	**5.0**	**5.6**	**6.3**
500	1.30	2.50	**1.30**	**2.50**	**3.6**	**5.0**	**6.3**	**7.1**	**8.0**
630	1.80	3.20	**1.8**	**3.2**	**4.5**	**6.3**	**8.0**	**9**	**10.0**
800	2.40	4.00	**2.4**	**4.0**	**5.6**	**8.0**	**10.0**	**11**	**12.5**
1000	3.20	5.00	**3.2**	**5.0**	**7.1**	**10**	**12.5**	**14**	**16.0**
1250			**4.2**	**6.3**	**9**	**12.5**	**16**	**18**	**20**
1600			**5.6**	**8**	**11**	**16**	**20**	**22**	**25**
2000			**7.5**	**10**	**14**	**20**	**25**	**28**	**32**
2500			**10**	**12.5**	**18**	**25**	**32**	**36**	**40**
3200			**12.5**	**16**	**22**	**32**	**40**	**45**	**50**
4000			**16**	**20**	**28**	**40**	**50**	**56**	**63**
5000			**20**	**25**	**36**	**50**	**63**	**71**	**80**
6300			**25**	**32**	**45**	**63**	**80**	**90**	**100**
8000			**32**	**40**	**56**	**80**	**100**	**110**	**125**
10000			**40**	**50**	**71**	**100**	**125**	**140**	**160**

[1]) This voltage is:
a) For function insulation: the working voltage
b) For basic and additional insulation of a circuit supplied directly by the low-voltage network: either the voltage selected from Table 3a or 3b on the basis of the rated voltage of the equipment or the rated insulation voltage
c) For basic and additional insulation of systems, equipment and internal circuits which are not supplied directly from the mains: the highest r.m.s. value of the voltage that, within the bounds of the rated data, can occur in the system, the equipment or the internal circuit, when supplied with rated voltage and in the case of the most unfavorable combination of operating conditions.

[2]) For pollution degree 3, insulation material group IIIb is not recommended for use if voltages are greater than 630 V.

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Overview of approval bodies and safety marks

Certification bodies and approvals		Country code
CB scheme	IECEE CB Scheme (in combination with certifying body)	International
CCA	CENELEC Certification Agreement (CCA inspection report) (in combination with certifying body)	EU
CSA	Canadian Standards Association (CSA)	CA
UL	Underwriters Laboratories Inc. (UL)	US
c UL	Underwriters Laboratories Inc. (UL) - UL approval for Canada -	CA
c UL us	Underwriters Laboratories Inc. (UL) Combined logo - UL approval for the USA and Canada -	US CA
IMQ	INSIEME PER LA QUALITA'E LA SICUREZZA	IT
GOST	Gosudarstvenne Komitet Standartov (GOST)	RU
KEMA KEUR	DEKRA Certification B.V.	NL
ÖVE	Österreichischer Verband für Elektrotechnik	AT
SABS	South African Bureau of Standards	ZA
SEV	electrosuisse SEV Verband für Elektro-, Energie- und Informationstechnik	CH
VDE	Verband Deutscher Elektrotechniker e.V. (VDE) – Approval of drawings – Reports with production monitoring	DE
GS	Berufsgenossenschaft (BG) GS - Geprüfte Sicherheit	DE
TÜV	TÜV Rheinland Industrie Service GmbH	DE

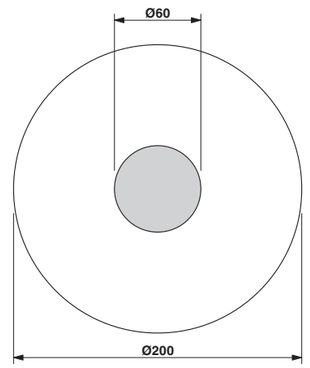
Explosion protection		Country code
FM	FM Approvals	US
DEKRA	DEKRA Certification B.V.	NL
PTB	Physikalisch-Technische Bundesanstalt	DE
QS	QS Schaffhausen	CH
VTT	VTT Expert Services Oy	FI
IBExU	IBExU Institut für Sicherheitstechnik GmbH	DE
TÜV	TÜV Rheinland do Brasil	BR
UL	Underwriters Laboratories Inc. (UL)	US
TÜV NORD	TÜV Nord	DE
DEKRA	DEKRA EXAM GmbH	DE

Ship classification societies		Country code
BV	Bureau Veritas	FR
GL	Germanischer Lloyd AG	DE
Lloyd's Register	Lloyd's Register EMEA	GB
ClassNK	Nippon Kaiji Kyokai	JP
DNV	Det Norske Veritas	NO
PRS	Polski Rejestr Statków	PL
RS	Russian Maritime Register of Shipping	RU
KR	Korean Register of Shipping	KR
ABS	American Bureau of Shipping	US

Note:
Subject to changes that serve the purpose of technical progress.

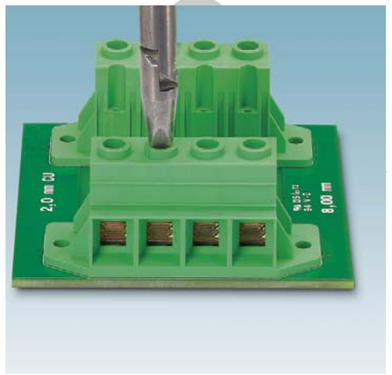
Shock protection

Touch proof



Back of hand safety

Example: pressure actuation



The accident prevention regulations BGV A 2 issued by the German employer's liability insurance association for precision mechanics and electrical engineering apply to the operators of electrical systems and are aimed at the prevention of electrical accidents by means of special safety requirements.

These regulations contain specifications regarding the safety distances for work, operation, and occasional handling in the proximity of "live parts" in low-voltage systems up to 1000 V ~ or 1500 V –.

Work with live parts is only permitted once they have been de-energized. Operational activities are only permitted in the vicinity of live parts if these parts are de-energized or are protected against direct contact (§ 6). The following safety measures are applicable when working in close proximity to live parts:

– Provision of the de-energized state for the duration of the work
– Ensure shock protection is in place in the form of covers or barriers during the work
– Assurance that proximity limits will not be violated (§ 7)

The term "occasional handling" has been introduced for the operation of elements such as pushbuttons, rocker arms or rotary buttons in the proximity of live parts.

In VDE 0105-1, this is covered by "operation with partial protection against direct contact".

Detailed specifications for "occasional handling" can be found in DIN EN 50274. This specifies to what degree live parts in the proximity of operating elements are to be protected against contact. The basis for this is the definition of a "protection area for occasional handling"; this is the area into which the user must reach in order to handle the machine.

The most important thing is that an area formed by an even envelope curve 30 mm in radius must surround the live parts. This area must be **touch proof**, i.e., the live parts of the electrical device must not be within reach of the VDE test finger in accordance with IEC 60529/ DIN VDE 0470-1 (test finger).



Back of hand safety is specified for the "rest of the area" up to 100 mm around the operating element. **Back of hand safety** means that when a force of 50 N is applied to a ball with a diameter of 50 mm, this does not come into contact with the live parts of the equipment. No special measures for shock protection are provided outside this area.

Note: systems and equipment that are operated with SELV up to 25 V ~ or 60 V – are considered to be protected against direct contact.

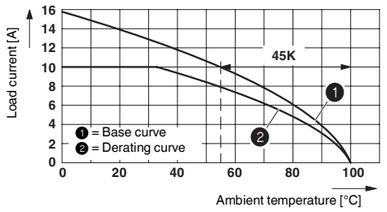
According to BGV A 2, there is no need to test the condition of the system prior to initial startup if the company has confirmation from the manufacturer or installer that the electrical systems and equipment conform to BGV A 2. The confirmation required relates to systems and equipment that have been installed and are ready for operation and can only be issued by the installer or installation company. The manufacturer of the electrical equipment can only issue a confirmation that products have been produced in accordance with the relevant electrotechnical regulations stipulated in BGV A 2. The installer must bear this in mind when selecting the equipment to be used.

In the field of connection technology, Phoenix Contact offers a wide range of products that are touch proof or that can be protected against contact using covers. Depending on the conditions, all of this must be taken into account when selecting the individual types of terminal block and accessories.

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Base and derating curve, test setup, ambient temperature





Current carrying capacity

The technical data shows a rated current strength that does not impair functionality when the ambient temperature and corresponding conductor cross section are taken into account, or does not cause thermal damage to the product. Here, "ambient temperature" refers to the temperature measured in the immediate vicinity of the terminal block. In the application, it is necessary to consider heat sources near the terminal block (e.g., high-load resistors or similar) in particular, which affect the terminal block through radiant heat and/or heat conduction over the conductive path.

EN 60998-1 "Connecting devices for low-voltage circuits for household and similar purposes" limits the permissible heat increase of the conductive parts of terminal points to 45 K. When the upper temperature limit of the insulation material – here, always assumed to be 100°C – is taken into account, these values yield a current carrying capacity dependent on the ambient temperature: the "base curve". Here, the current carrying capacity curve documented according to DIN EN 60512-5-2 shows a current for plug-in connectors that has been reduced by a derating factor of 0.8 from the base curve: the derating curve. For Phoenix Contact PCB terminal blocks, the base curve can be used for the current carrying capacity without the derating factor.

For the application-specific representation of the current carrying capacity of plug-in connectors, determining the derating curve based on various numbers of positions and conductor cross sections has proven itself beyond the method presented in the standard.

Tightening torque of terminal block screws

Tightening torque values have been determined in accordance with IEC 60999-1 for PCB terminal blocks and plug-in connectors with screw connection. The tightening torques provide a secure connection between the conductor and terminal block. They also take into account the stability of the soldering pin and soldering spot, the function of which must not be impaired during the clamping progress.

Anti-rotation protection

2 and 3-pos. terminal blocks in particular are often subjected to high tightening torques, which cannot be absorbed by a few solder pins. Usually these terminal blocks must be supported during conductor connection (held with one hand, housing support). If this is not possible, versions with additional anti-rotation pins are available for many terminal blocks.

Extract from IEC 60999, Table 4

The torque according to IEC and the recommended tightening torque for Phoenix Contact terminal blocks are specified.

Thread	Head screw with slot	
	Torque [Nm]	Recommended tightening torque [Nm]
M2.5 (M2.6)	0.4	0.4 - 0.5
M3	0.5	0.5 - 0.6
M3.5	0.8	0.8 - 1.0
M4	1.2	1.2 - 1.5

Current carrying capacity of conductive paths

The current carrying capacity of the conductive paths on the PCB is decisive for device safety and performance. The width and thickness of a conductive path depend to a large extent on the current strength, the resultant heat loss, the maximum temperature of the PCB, and the ambient temperature.

The conductive path dimensions are defined in IEC 60326-3/DIN IEC 60326-3 taking into consideration the above-mentioned factors based on current load curves. Both the conductive path width and thickness are taken into consideration in this representation. The following layer thickness values have become established for the conductive path thickness: 35 µm, 70 µm, and 105 µm, whereby 35 µm and 70 µm are recommended in industrial applications.

Regulations

The international and national standards listed below are of particular relevance for the production of PCBs. Extracts from these standards have been included in various sections, but we recommend that you obtain copies of the standards quoted:

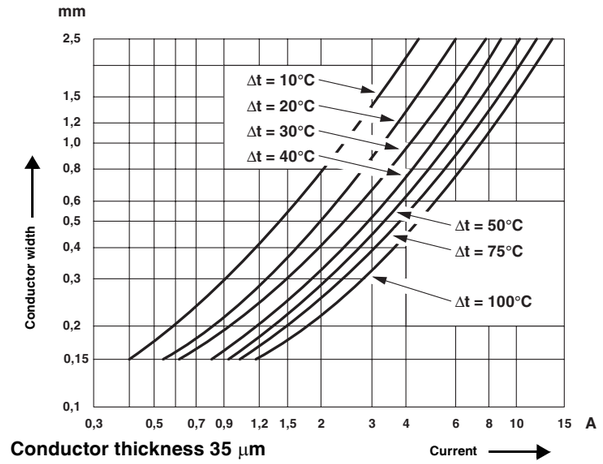
IEC 60664/IEC 60664A/DIN VDE 0110-1
– Insulation coordination for equipment within low-voltage systems; basic specifications

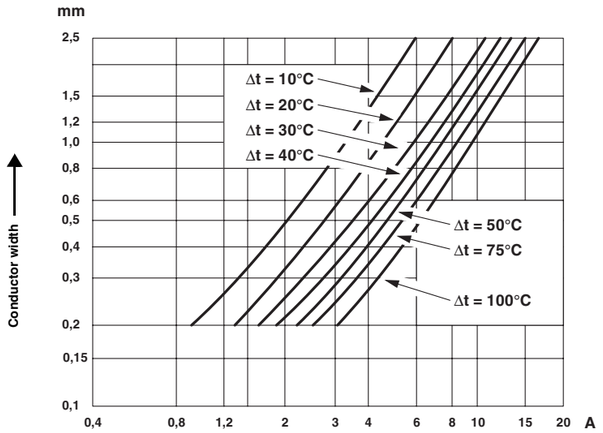
IEC 60664/IEC 60664A/VDE 0110-2
– Insulation coordination for equipment within low-voltage systems; dimensioning of air and creepage distances

IEC 60097/EN 60097/DIN EN 60097
– Grid systems for printed circuits

IEC 60249-1/EN 60249-1/DIN EN 60249-1
– Base materials for printed circuits - Part 1: Test methods (and other individual regulations)

IEC 60326-3/DIN IEC 60326-3
– PCBs - Part 3: Design and use of PCBs





Δt = Heating of the PCB as a result of the current

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A

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A 0,25- 5	3202465	834
A 0,25- 7	3202478	834
A 0,34- 7	3009202	834
A 0,5 - 6	3200218	834
A 0,5 - 8	3202481	834
A 0,5 -10	3202494	834
A 0,75- 6	3200221	834
A 0,75- 8	3202504	834
A 0,75-10	3200234	834
A 1 - 6	3200247	834
A 1 - 8	3202517	834
A 1 -10	3200250	834
A 1,5 - 7	3200263	834
A 1,5 -10	3200276	834
A 1,5 -12	3202588	834
A 1,5 -15	3202591	834
A 1,5 -18	3202601	834
A 2,5 - 7	3200289	834
A 2,5 -12	3200292	834
A 2,5 -18	3202821	834
A 4 - 9	3200302	834
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A 6 -10	3202520	834
A 6 -12	3200328	834
A 10 -12	3200331	834
A 10 -18	3200344	834
A 16 -12	3200425	834
A 25 -12	3200357	834
A 25 -15	3200360	834
A 25 -18	3200373	834
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A 35 -18	3200399	834
A 35 -20	3200409	834
AI 0,25- 6 YE	3203024	835
AI 0,25- 8 YE	3203037	835
AI 0,5 - 6 WH	3200687	835
AI 0,5 - 8 WH	3200014	835
AI 0,5 - 8 WH -1000	3200881	835
AI 0,5 -10 WH	3201275	835
AI 0,5 -12 WH	3200506	835
AI 0,75- 6 GY	3200690	835
AI 0,75- 8 GY	3200519	835
AI 0,75- 8 GY -1000	3200894	835
AI 0,75-10 GY	3201288	835
AI 0,75-12 GY	3200849	835
AI 1 - 6 RD	3200742	835
AI 1 - 8 RD	3200030	835
AI 1 - 8 RD -1000	3200904	835
AI 1 -10 RD	3200182	835
AI 1 -12 RD	3200674	835
AI 1,5 - 6 BK	3200755	835
AI 1,5 - 8 BK	3200043	835
AI 1,5 - 8 BK -1000	3200917	835
AI 1,5 -10 BK	3200195	835
AI 1,5 -12 BK	3201482	835
AI 1,5 -18 BK	3200056	835
AI 2,5 - 8 BU	3200522	835
AI 2,5 - 8 BU -1000	3200920	835
AI 2,5 -10 BU	3202533	835
AI 2,5 -12 BU	3200962	835
AI 2,5 -18 BU	3200580	835
AI 4 -10 GY	3200535	835
AI 4 -12 GY	3200959	835
AI 4 -18 GY	3200593	835
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AI 10 -12 RD	3200551	835
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AI 16 -12 BU	3200564	835
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AI 25 -16 YE	3200577	835
AI 25 -18 YE	3201505	835
AI 25 -22 YE	3200700	835
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B

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BC 107,6 DKL S TRANS	2896131	699
BC 107,6 OT U11 KMGY	2896076	699
BC 107,6 OT U22 KMGY	2896089	699
BC 107,6 UT HBUS BK	2896270	699
BC 161,6 DKL R KMGY	2278539	700
BC 161,6 DKL S TRANS	2278542	700
BC 161,6 OT 000020 KMGY	2201450	701
BC 161,6 OT 000022 KMGY	2201454	701
BC 161,6 OT 002000 KMGY	2201451	701
BC 161,6 OT U11 KMGY	2278513	700
BC 161,6 OT U22 KMGY	2278526	700
BC 161,6 UT HBUS BK	2278500	700
BC 17,6 BS U11 KMGY	2896186	698
BC 17,6 BS U22 KMGY	2896199	698
BC 17,8 DKL R KMGY	2896144	698
BC 17,8 DKL S TRANS	2896102	698
BC 17,8 OTU MKDSO KMGY	2279732	698
BC 17,8 UT HBUS BK	2896241	698
BC 35,6 BS U11 KMGY	2896209	698
BC 35,6 BS U22 KMGY	2896212	698
BC 35,6 DKL R KMGY	2896157	698
BC 35,6 DKL S TRANS	2896115	698
BC 35,6 OT U11 KMGY	2896034	698
BC 35,6 OT U22 KMGY	2896047	698
BC 35,6 UT HBUS BK	2896254	698
BC 53,6 BS U11 KMGY	2896225	699
BC 53,6 BS U22 KMGY	2896238	699
BC 53,6 DKL R KMGY	2896432	699
BC 53,6 DKL S TRANS	2896445	699
BC 53,6 OT U11 KMGY	2896416	699
BC 53,6 OT U22 KMGY	2896429	699
BC 53,6 UT HBUS BK	2896403	699
BC 71,6 DKL R KMGY	2896160	699
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BMKLT 19X12 WH	0813792	686
BMKLT 31,5X12 WH	0813802	687
BMKLT 41,5X12 WH	0813815	688

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CC 2,5/ 2-GF-5,08-LR P26THR	1792627	299
CC 2,5/ 3-GF-5,08 P26THR	1954702	299
CC 2,5/ 3-GF-5,08 P26THRR56	1954812	303
CC 2,5/ 3-GF-5,08-LR P26THR	1792630	299
CC 2,5/ 4-GF-5,08 P26THR	1954715	299
CC 2,5/ 4-GF-5,08 P26THRR56	1954825	303
CC 2,5/ 4-GF-5,08-LR P26THR	1792643	299
CC 2,5/ 5-GF-5,08 P26THR	1954728	299
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CCDN 2,5/ 2-G1F-5,08 P26 THR	1753307	307
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CCDN 2,5/ 6-G1F P26 THR	1734481	307
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CCDN 2,5/ 7-G1 P26 THR	1734326	306
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