

Product range in pictures

From here, you can access the desired product directly

UT... screw connection terminal blocks



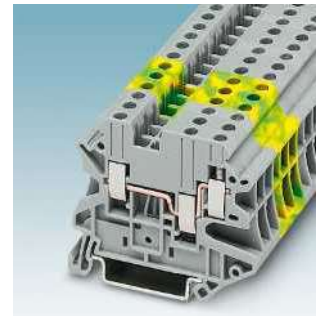
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Feed-through, multi-conductor, and multi-level terminal blocks and ground terminals
 2.5 mm² ... Page 30
 4 mm² ... Page 40
 6 mm² ... Page 52



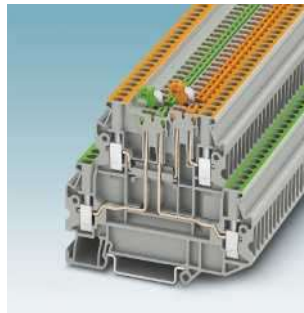
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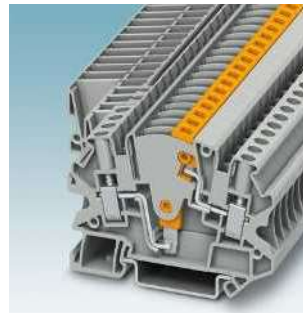
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Test disconnect terminal blocks
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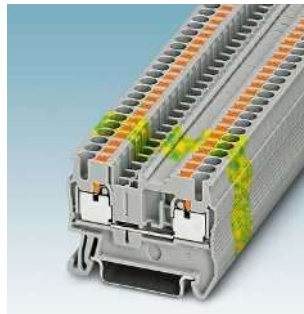


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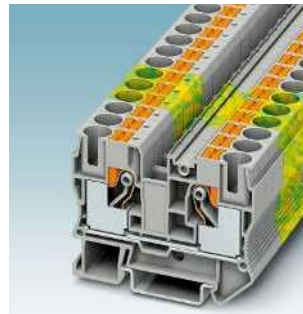
PT... push-in connection terminal blocks



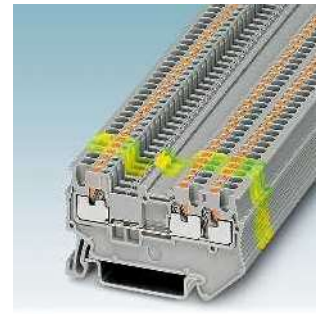
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10 mm² ... Page 146
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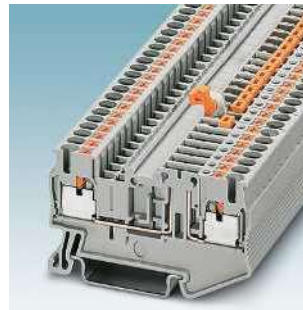
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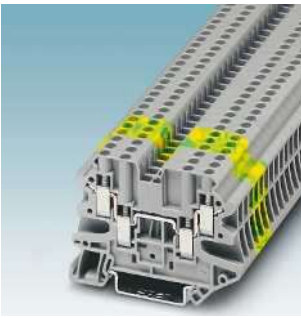
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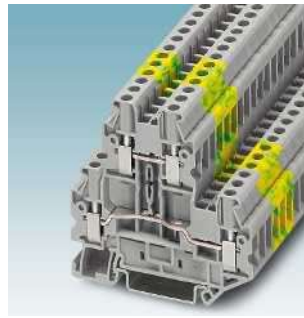
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Double-level terminal blocks
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Three-level terminal blocks
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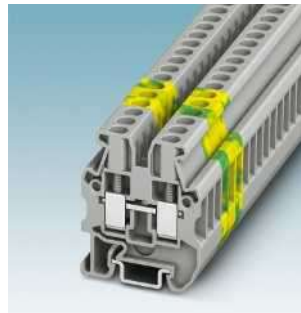
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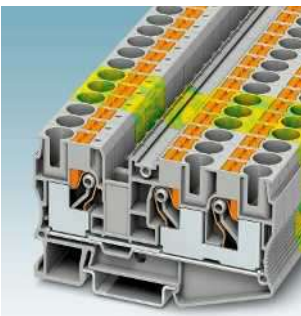
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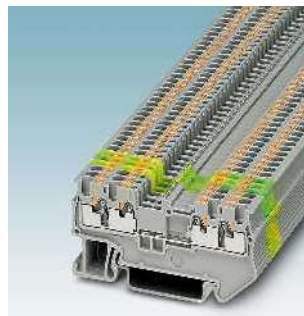
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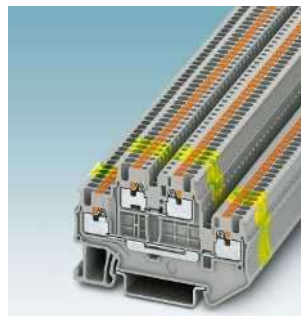
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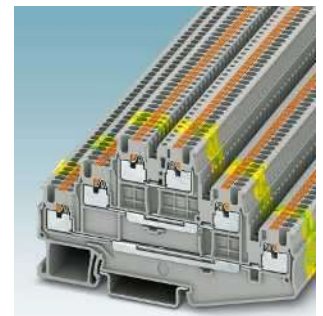
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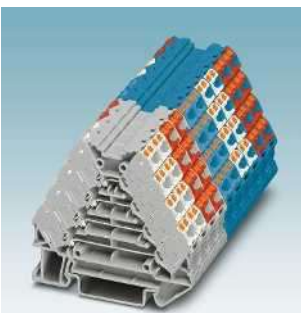
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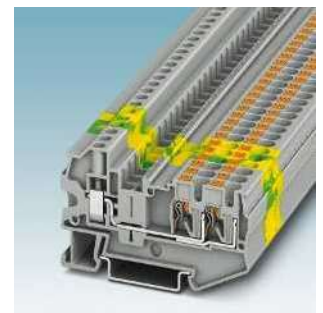
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Product range in pictures

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Three-conductor terminal blocks, desk design
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Four-conductor terminal blocks, desk design
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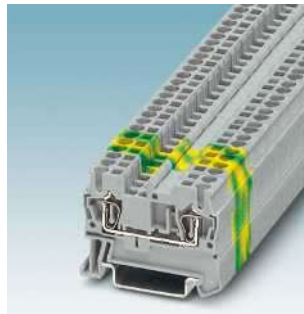


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ST... spring-cage connection terminal blocks



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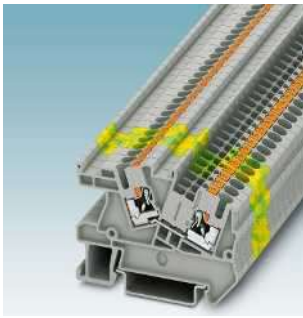


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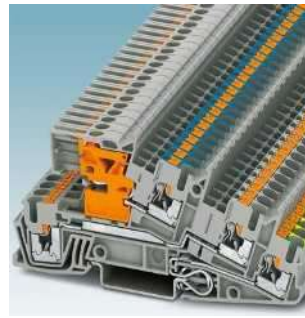


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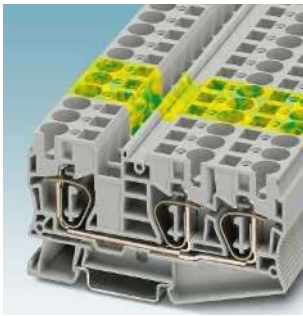
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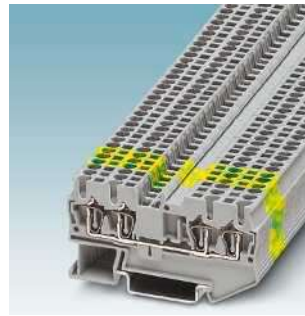
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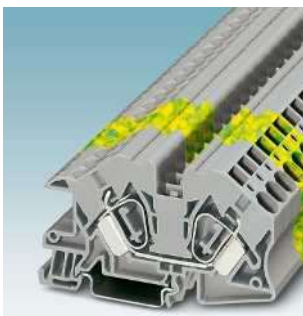
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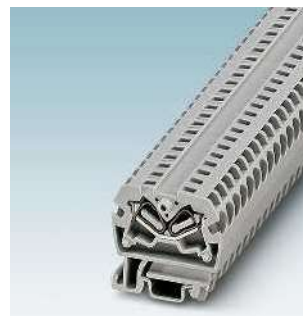
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Mini feed-through terminal blocks and ground terminals, with vertical conductor exit
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Product range in pictures

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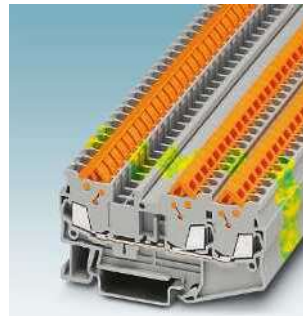
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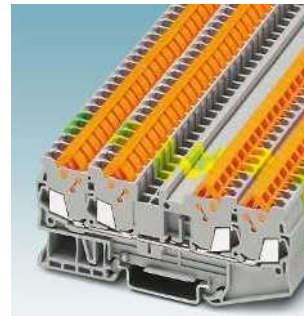
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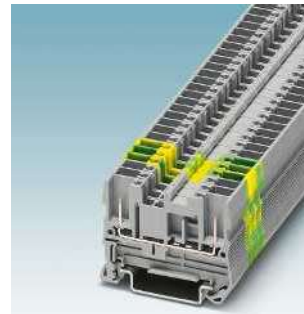
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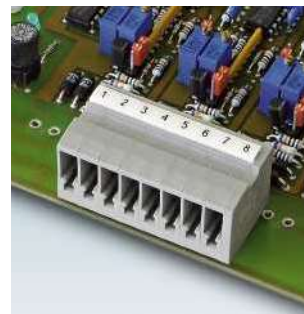
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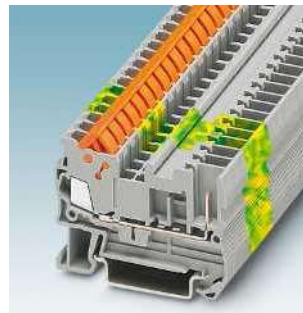
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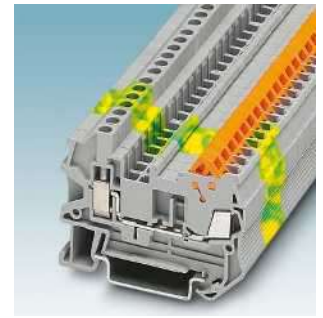
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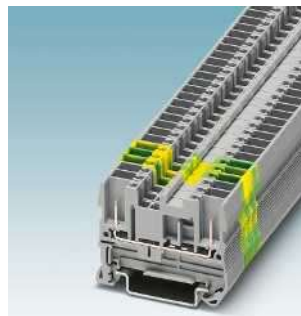
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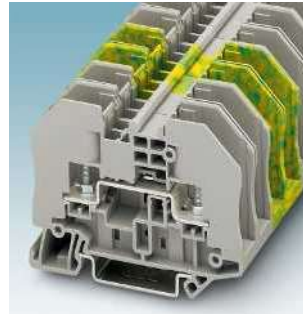


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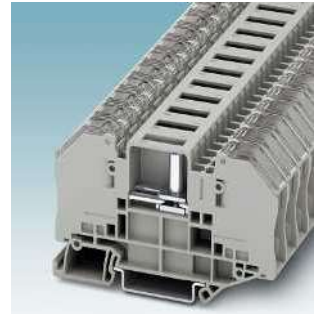
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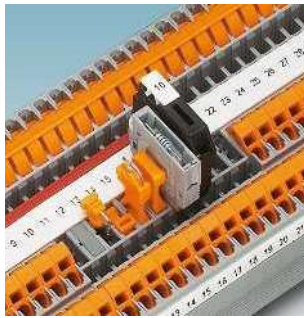
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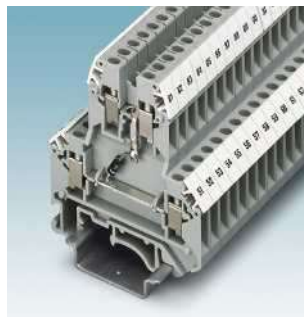
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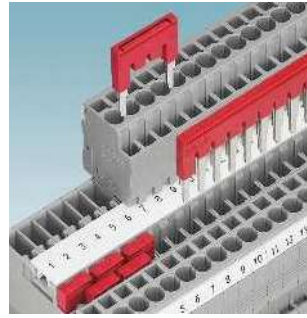
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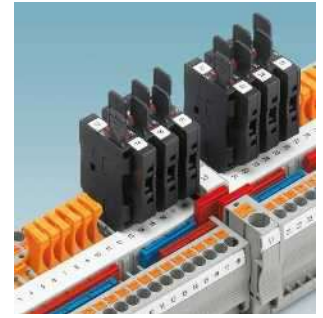
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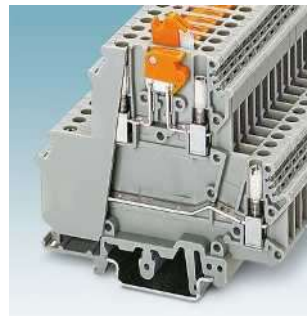
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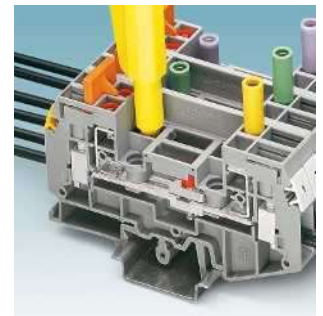
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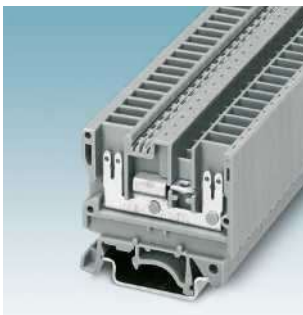
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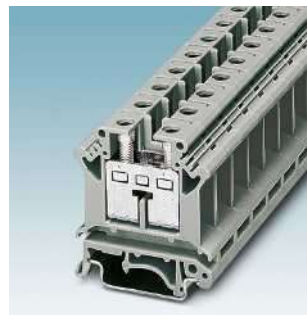
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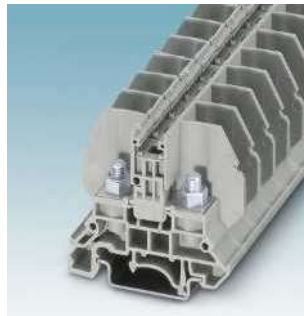
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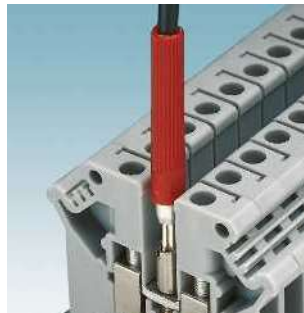


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Test plugs for UK series
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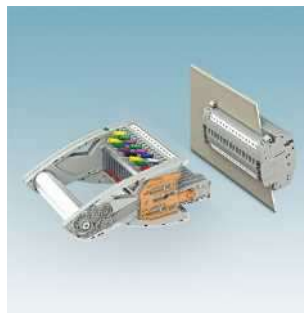


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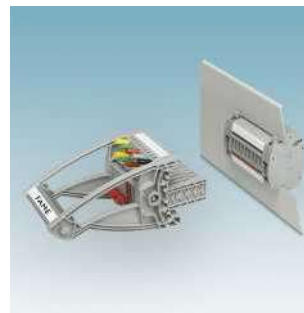
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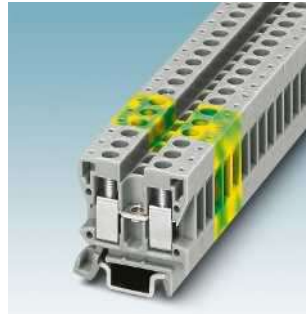


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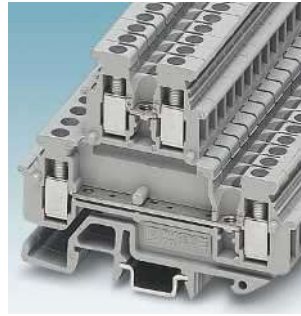
From here, you can access the desired product directly



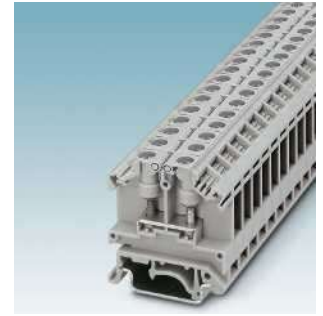
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High-current connectors
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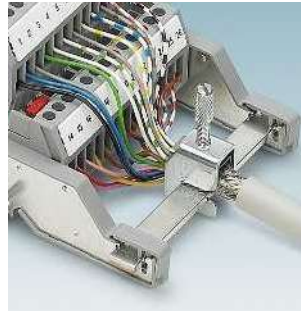
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Services: terminal strips, CLIPSAFE stainless steel Ex terminal boxes, and empty housings



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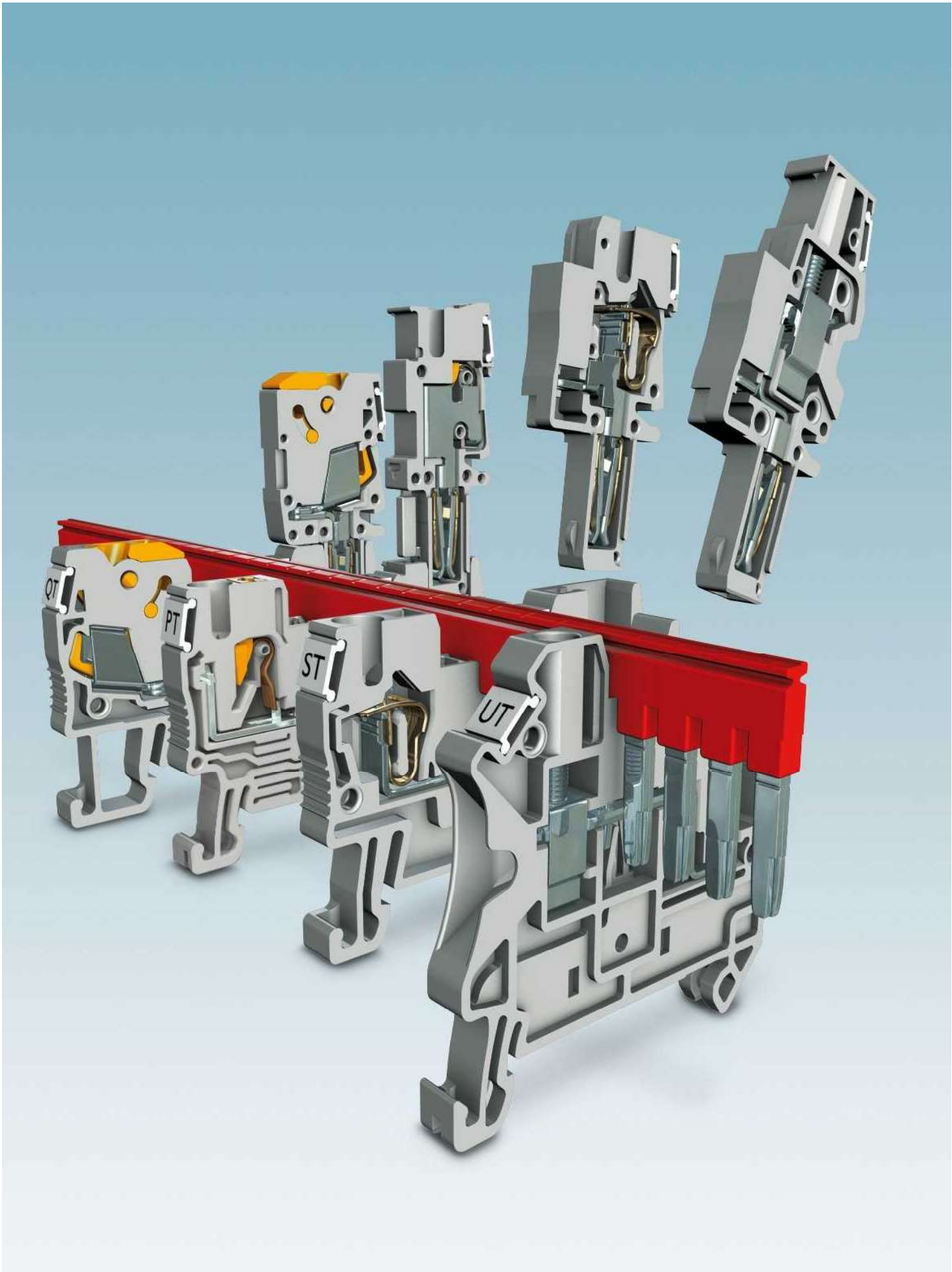


CLIPSAFE stainless steel Ex terminal boxes
and empty housings Page 592

Planning and marking software



Planning and marking software
CLIP PROJECT Page 594



CLIPLINE complete system features

With CLIPLINE complete, the unique terminal block system from Phoenix Contact, the choice of connection technology is yours. The following connection methods are available:

- Universal UT... screw connection
- Simple PT... push-in connection
- Compact ST... spring-cage connection
- Fast QT QUICKON connection
- COMBI plug-in connection solutions
- Robust RT bolt connection

Irrespective of which connection technology you choose, they can all be freely combined, with the same accessories, thanks to the double function shaft.

In addition to the flexibility of this terminal block system, CLIPLINE complete also provides added value. The bridging, marking, and test accessories are standardized and can reduce your logistics and storage costs.

The CLIPLINE complete terminal block system has been tested and approved for a wide range of national and international approvals. The maximum level of safety in these standards is achieved by routine testing of the standard CLIPLINE complete terminal blocks according to the ATEX Directive. They can also be used in the Ex e area.

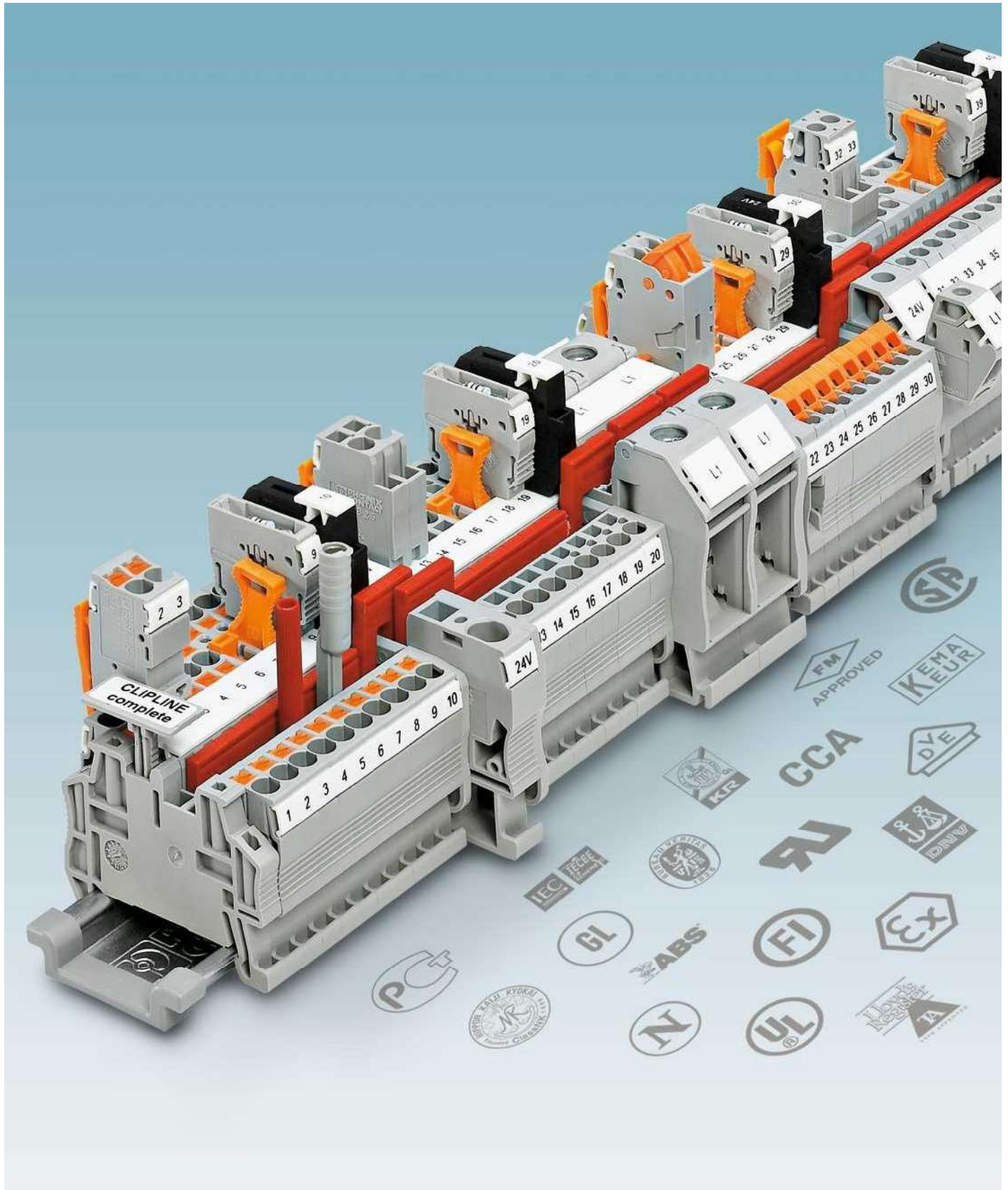
Product range overview

System features

16

CLIPLINE complete

All connection technologies, one system



General

The CLIPLINE complete system offers you a uniform range of accessories for all connection technologies. Marking and test accessories are standardized and reduce logistics costs. In addition, all terminal blocks of the CLIPLINE complete system can be freely combined with each other using the double function shaft. The standardized plug-in zone of the COMBI basic terminal blocks also allows the connection of modules via individually configurable plugs, regardless of the connection technology.

CLIPLINE complete terminal blocks with screw, spring-cage, push-in, bolt, and plug-in connections enable you to react flexibly to the demands of your customers anywhere in the world.

Flexible jumper system

The same jumper for all connection technologies. To allow fast and individual potential distribution, the terminal blocks in the CLIPLINE complete system have two function shafts. These are arranged in one line over all the terminal blocks, allowing for a combination of connection technologies. The 2- to 50-pos. jumpers make it possible to implement all the tasks of potential bridging within a very short time. Reducing bridges connect, for example, UT... screw terminal blocks and ST... spring-cage terminal blocks.

The plug-in switching jumpers make contact by being securely latched into the function shaft. They create a removable connection between neighboring terminal blocks.

Plug-in connection solutions

The COMBI connection system enables the time-saving and modular configuration of your application. Like the terminal blocks, the COMBI connectors are available with screw, spring-cage, push-in, and fast connection technologies.

The nominal data of up to 41 A and 1000 V has made a connection system for signal and power wiring possible. The system meets the most stringent of vibration requirements. Both the terminal blocks and the plugs are touch proof.

Extensive accessories are available, from latching mechanisms to shield connections.

Multifunctional disconnect zone

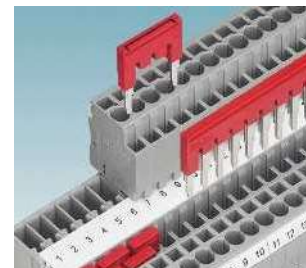
All disconnect terminal blocks in the CLIPLINE complete system have a standardized disconnect zone. Various function plugs are available for use in the disconnect terminal blocks. Isolating plugs are used for simple disconnection. The fuse plugs are designed for the use of cartridge fuse-links. The patented component connector allows you to mount components quickly, without the risk of polarity reversal, and without the need for soldering.

Large-surface marking

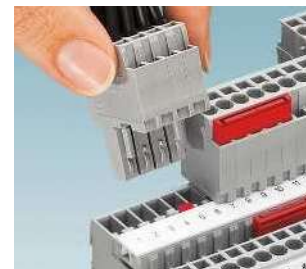
All the terminal points of the terminal blocks in the CLIPLINE complete system have large-surface marking options. This is a precondition for clear wiring and startup and simplifies assignment during testing and maintenance work. Optional large-surface snap-on marker carriers are available for group and terminal strip marking.

Standardized test system

A comprehensive range of test accessories is available in the CLIPLINE complete system. All test plugs make contact in the freely accessible function shaft. For individual measuring lines, a 2.3 mm diameter test plug is available. More complex testing tasks can be implemented using alignable test plugs. The corresponding spacers can be used to assemble individual test adapters perfectly suited for use in test laboratories.



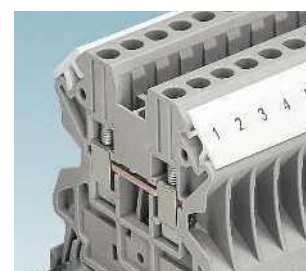
Jumpering



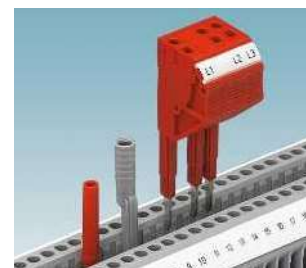
Inserting



Disconnecting

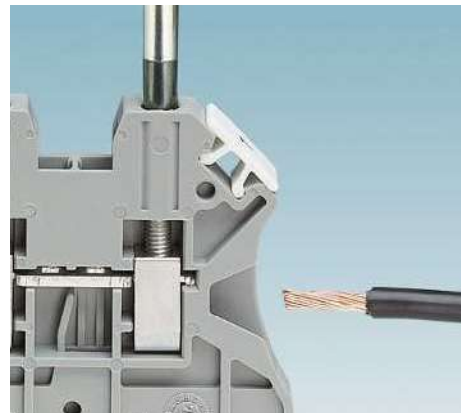
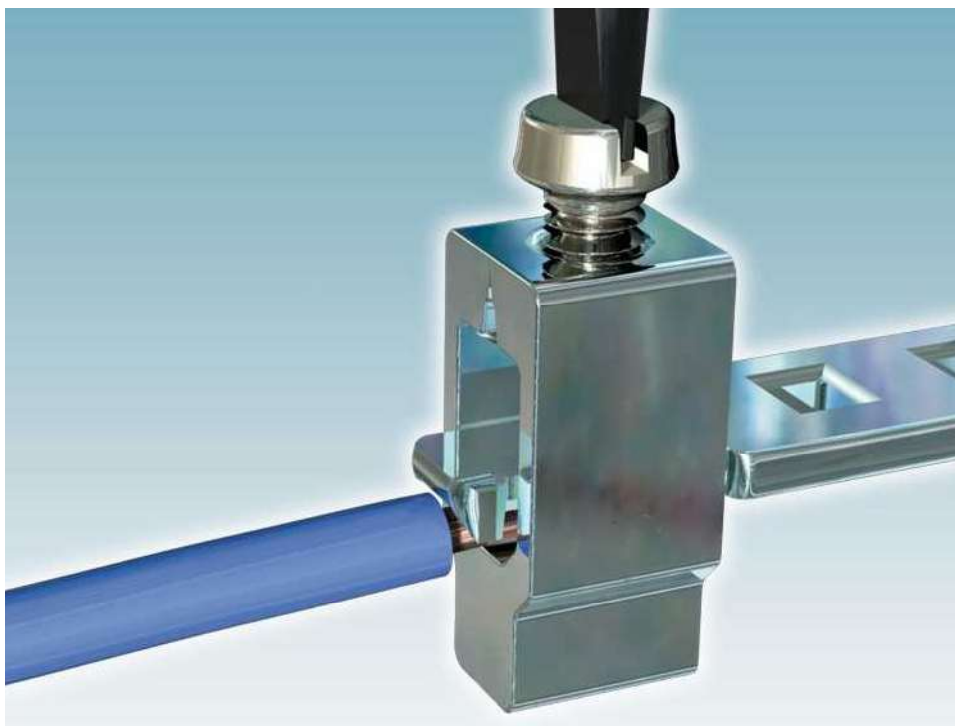


Marking



Testing

System features - screw connection



Material properties

The metal parts of the UT... screw connection terminal blocks are made from high-grade, strain-crack, and corrosion-proof copper alloys as a standard feature. This eliminates the possibility of electrolytic corrosion in the presence of moisture and the risk of rusting. The consequences, such as unreliable electrical contacts and/or jammed screws, are also prevented. Another advantage is the low temperature rise due to good electrical conductivity. The surface of the metal parts is protected by lead-free, galvanic nickel or tin plating.

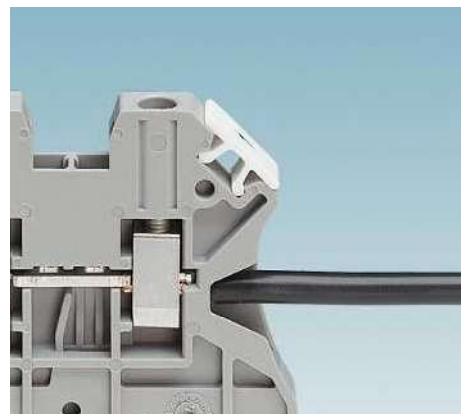
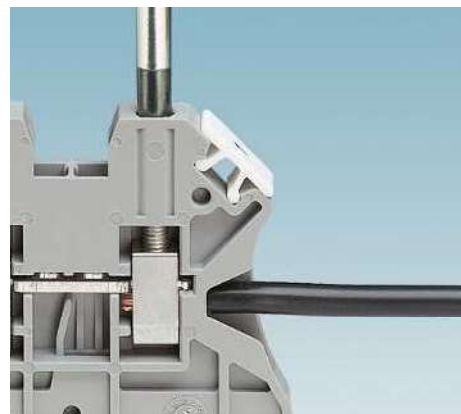
The insulating housing of the UT... screw connection terminal blocks is made from recyclable PA 6.6. This elastic plastic with high impact strength is halogen-free and UV resistant. Further characteristics include the good tropical and termite resistance, high chemical resistance, and excellent aging characteristics. Polyamide 6.6 can be used with operating temperatures up to 130°C and is certified for inflammability class V0 according to UL 94.

Connection principle

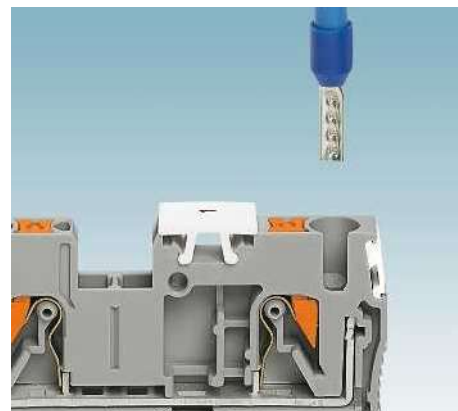
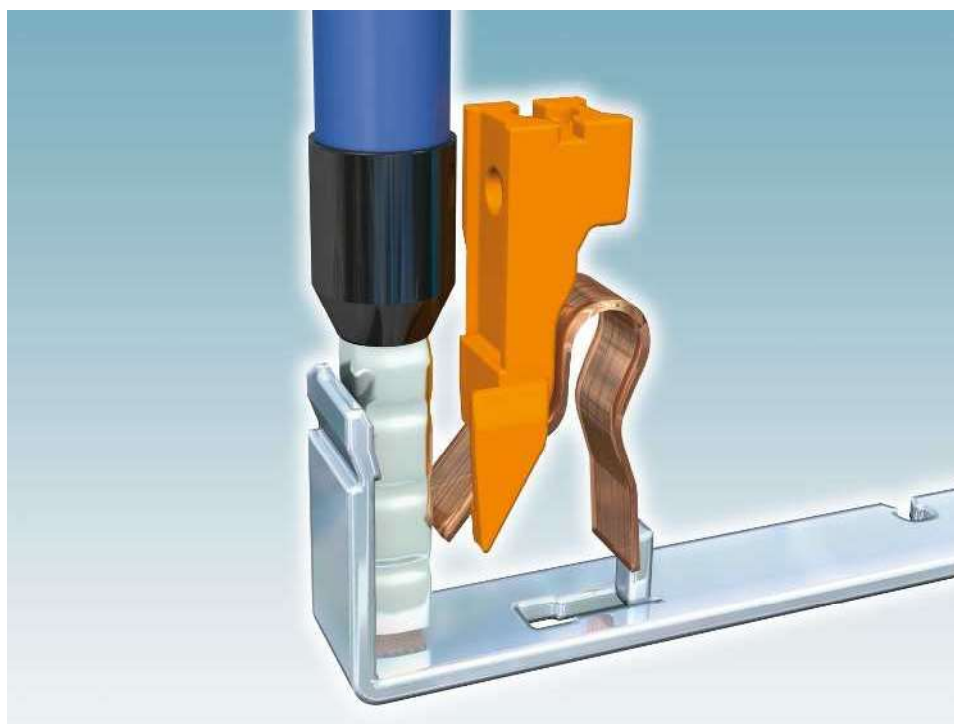
UT... screw connection terminal blocks are designed for the most stringent requirements. For more than 80 years, they have proven themselves a billion times over in all applications. An important characteristic is the maintenance-free conductor connection. There is no need to tighten the terminal block screws. The screws are prevented from loosening by the Reakdyn principle, a screw locking technique developed by Phoenix Contact.

Phoenix Contact UT... screw connection terminal blocks can be clamped without any pretreatment. Splicing protection can also be implemented in the form of ferrules. A special characteristic of the screw clamping body is the multi-conductor connection, which is often required.

Very large conductor cross sections up to 240 mm² can also be wired gas-tight and with long-term stability thanks to the high contact forces.



System features - push-in connection



Material properties

All metal parts of the push-in terminal blocks are made from corrosion-free materials. The conductive metals consist of high-grade copper alloys. A particular advantage is the low temperature rise due to good electrical conductivity. The surface of the metal parts is protected by lead-free, galvanic nickel or tin plating.

The contact force for the push-in connection is applied by a leg spring made of high-strength chromium-nickel spring steel.

The insulating housing of the terminal blocks is made from recyclable PA 6.6. This elastic plastic with high impact strength is halogen-free and UV resistant. Further characteristics include the good tropical and termite resistance, high chemical resistance, and excellent aging characteristics.

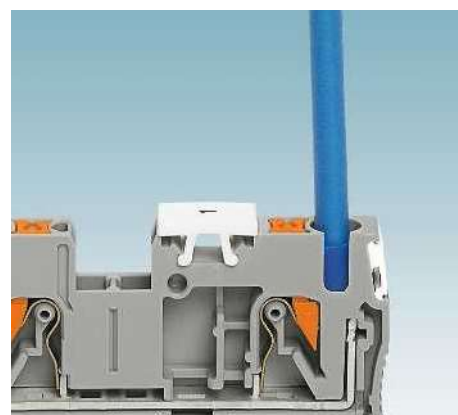
Polyamide 6.6 can be used with operating temperatures up to 130°C and is certified for inflammability class V0 according to UL 94.

Connection principle

PT... push-in connection terminal blocks have been developed for direct conductor connection. This means that solid conductors or conductors with ferrules can be inserted directly into the terminal block without tools.

The special spring profile enables the easy insertion of conductors with ferrules from 0.34 mm² to 95 mm². The contact spring is opened automatically when the conductor is pushed in and thereby provides the required pressure force against the current bar. Both for releasing conductors and connecting small cross sections from 0.14 mm², the spring is opened by means of the actuation lever – easily and without direct contact with live parts. The actuation lever can be operated with all standard screwdrivers.

The PT... connection technology has been tested and approved for a wide range of approvals. These include, for example, vibration resistance according to railway standard EN 50155 and shock and corrosion resistance according to current shipbuilding registers. It is also certified for process engineering in areas with increased safety (Ex e).



System features - spring-cage connection



Material properties

All metal parts of the spring-cage terminal blocks are made from corrosion-free materials. The conductive metals consist of high-grade copper alloys. A particular advantage is the low temperature rise due to good electrical conductivity. The surface of the metal parts is protected by lead-free, galvanic nickel or tin plating.

The contact force for the spring-cage connection is applied by a spring element made from high-strength chromium-nickel spring steel.

The insulating housing of the spring-cage terminal blocks is made from recyclable PA 6.6. This elastic plastic with high impact strength is halogen-free and UV resistant. Further characteristics include the good tropical and termite resistance, high chemical resistance, and excellent aging characteristics. Polyamide 6.6 can be used with operating temperatures up to 130°C and is certified for inflammability class V0 according to UL 94.

Connection principle

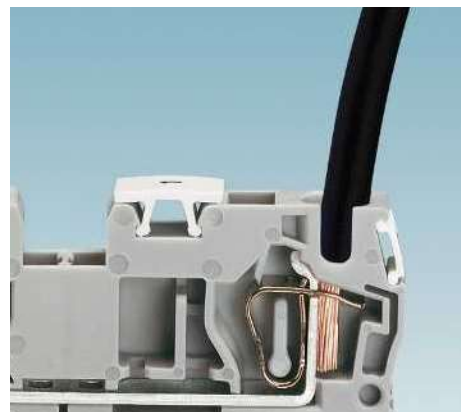
ST... spring-cage terminal blocks have been developed for universal spring-loaded conductor contacting.

The contact force is independent of the user and creates a vibration-proof, gas-tight connection with long-term stability.

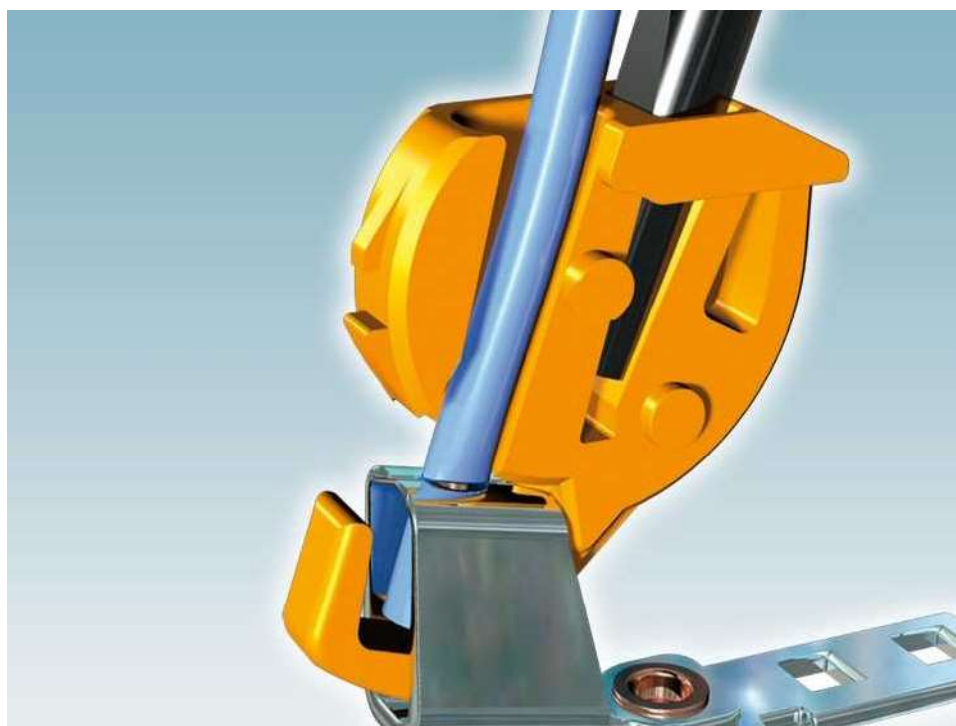
The terminal point is opened with a standard screwdriver. After the conductor has been inserted into the clamping space, the screwdriver is removed and the conductor automatically makes contact. The easy operation is a result of the front connection, i.e., the conductor and screwdriver come in parallel from the same direction.

All kinds of copper conductors up to 35 mm² can be clamped without any pretreatment. Splicing protection can also be implemented in the form of ferrules.

Phoenix Contact spring-cage terminal blocks offer a large insertion space, i.e., conductors with ferrules and insulating collars and with a nominal cross section can also be wired.



System features - fast connection



Material properties

The patented contact metals of the QT... fast connection terminal blocks are made from a special, high-grade copper alloy. This combines good electrical conductivity with excellent elastic characteristics.

The surface of the metal parts is protected by lead-free, galvanic nickel or tin plating.

The insulating housing of the fast connection terminal blocks is made from recyclable PA 6.6. This elastic plastic with high impact strength is halogen-free and UV resistant. Further characteristics include the good tropical and termite resistance, high chemical resistance, and excellent aging characteristics. Polyamide 6.6 can be used with operating temperatures up to 130°C and is certified for inflammability class V0 according to UL 94.

Connection principle

QT QUICKON terminal blocks are designed for fast conductor connection. There is no need to strip or implement splicing protection; the cables simply need to be cut to length for contact to be made in a matter of seconds.

An important characteristic is the space-saving twist connection. Due to the simplicity of the connection, the wiring time is reduced by up to 60 percent. A standard screwdriver is used to operate the terminal blocks and the switching states are clearly signaled by engagement points in the start and end position.

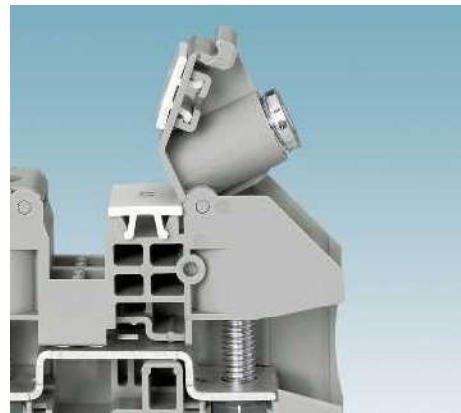
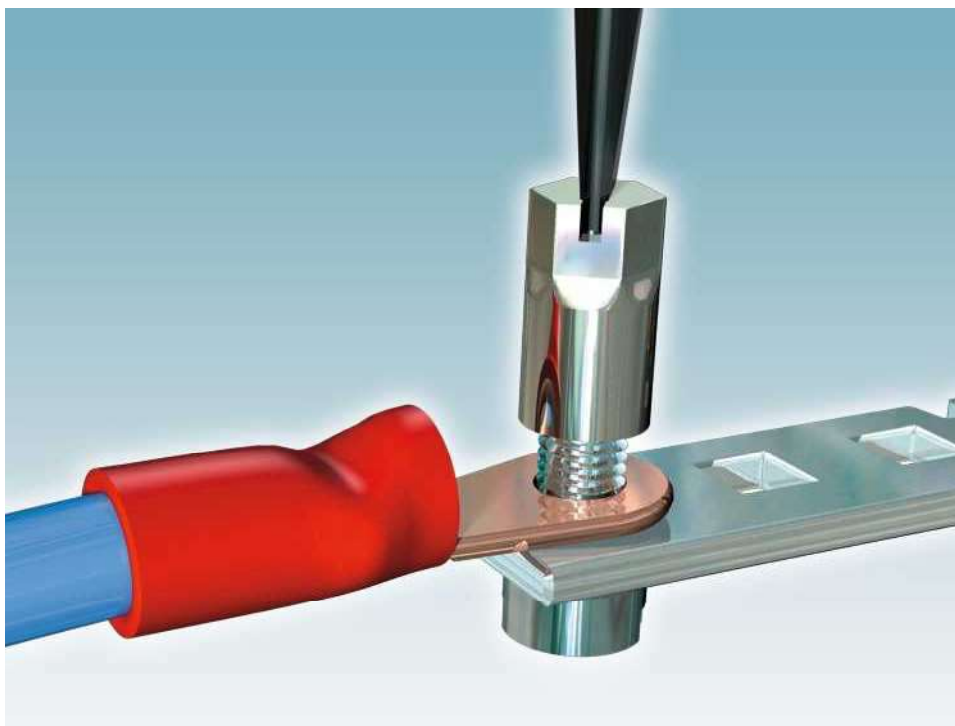
Solid and stranded conductors from 0.25 to 2.5 mm² can be wired without aids such as guide ferrules.

When a conductor is connected, the conductor insulation is cut open, displaced, and the conductor is securely engaged in the end position where it makes extensive, gas-tight contact.

The high quality of the QUICKON fast connection is verified by the fact that this connection is certified according to the standard for Ex e applications, as are the screw and spring connections.



System features - bolt connection



Material properties

All metal parts of the bolt connection terminal blocks are made from corrosion-free materials. The conductive metals consist of high-grade copper alloys. Due to their good electrical conductivity, they ensure a low temperature rise. The surface of the metal parts is protected by lead-free, galvanic nickel or tin plating.

The insulating housing of the bolt connection terminal blocks is made from recyclable PA 6.6. This elastic plastic with high impact strength is halogen-free and UV resistant. Further characteristics include the good tropical and termite resistance, high chemical resistance, and excellent aging characteristics.

Polyamide 6.6 can be used with operating temperatures up to 130°C and is certified for inflammability class V0 according to UL 94.

Connection principle

RT... bolt connection terminal blocks have been developed with a robust design and offer convenient wiring for ring cable lugs.

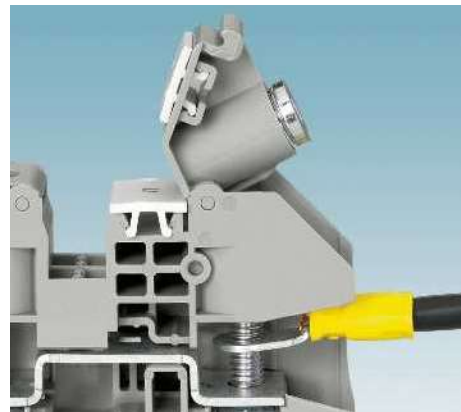
An important characteristic is the hinged cover which can be swung up and which features a captive cap nut. This ensures quick and easy ring cable lug wiring.

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

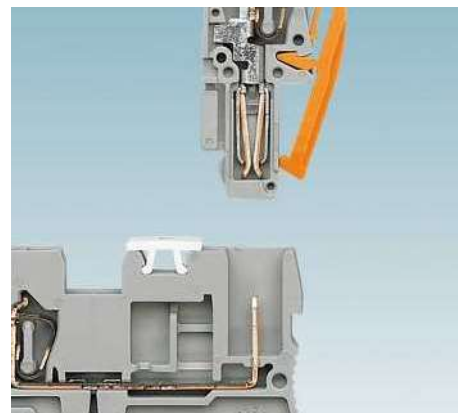
All ring cable lugs which comply with DIN 46234, DIN 46235 or DIN 46237 can be connected.

A special characteristic of the bolt connection is the often required multi-conductor connection, on which up to four cable lugs can be connected per bolt.

All kinds of conductors up to 240 mm² can be wired securely and with long-term stability.



System features - plug-in connection



Material properties

All metal parts of the COMBI connectors are made from corrosion-free materials. The distinction between the electrical and mechanical functions is a particular advantage. The conductive metals consist of high-grade copper alloys. The surface of the metal parts is protected by lead-free, galvanic nickel or tin plating. The high current carrying capacity of the contact is achieved by an integrated covering spring made of chromium-nickel spring steel.

The insulating housing of the COMBI connectors is made from recyclable PA 6.6. This elastic plastic with high impact strength is halogen-free and UV resistant. Further characteristics include the good tropical and termite resistance, high chemical resistance, and excellent aging characteristics.

Polyamide 6.6 can be used with operating temperatures up to 130°C and is certified for inflammability class V0 according to UL 94.

Connection principle

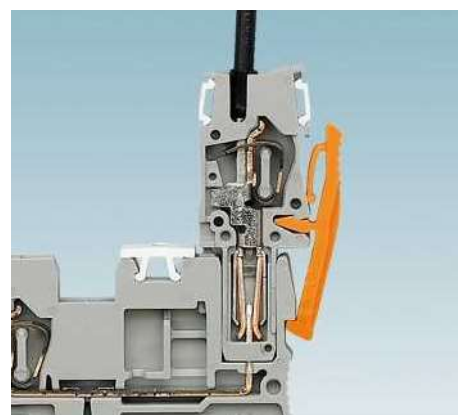
COMBI plug-in connections are designed for the most stringent universal demands in terms of plug-in capability. Here the nominal current of the connected conductor can be carried through the plug-in contact.

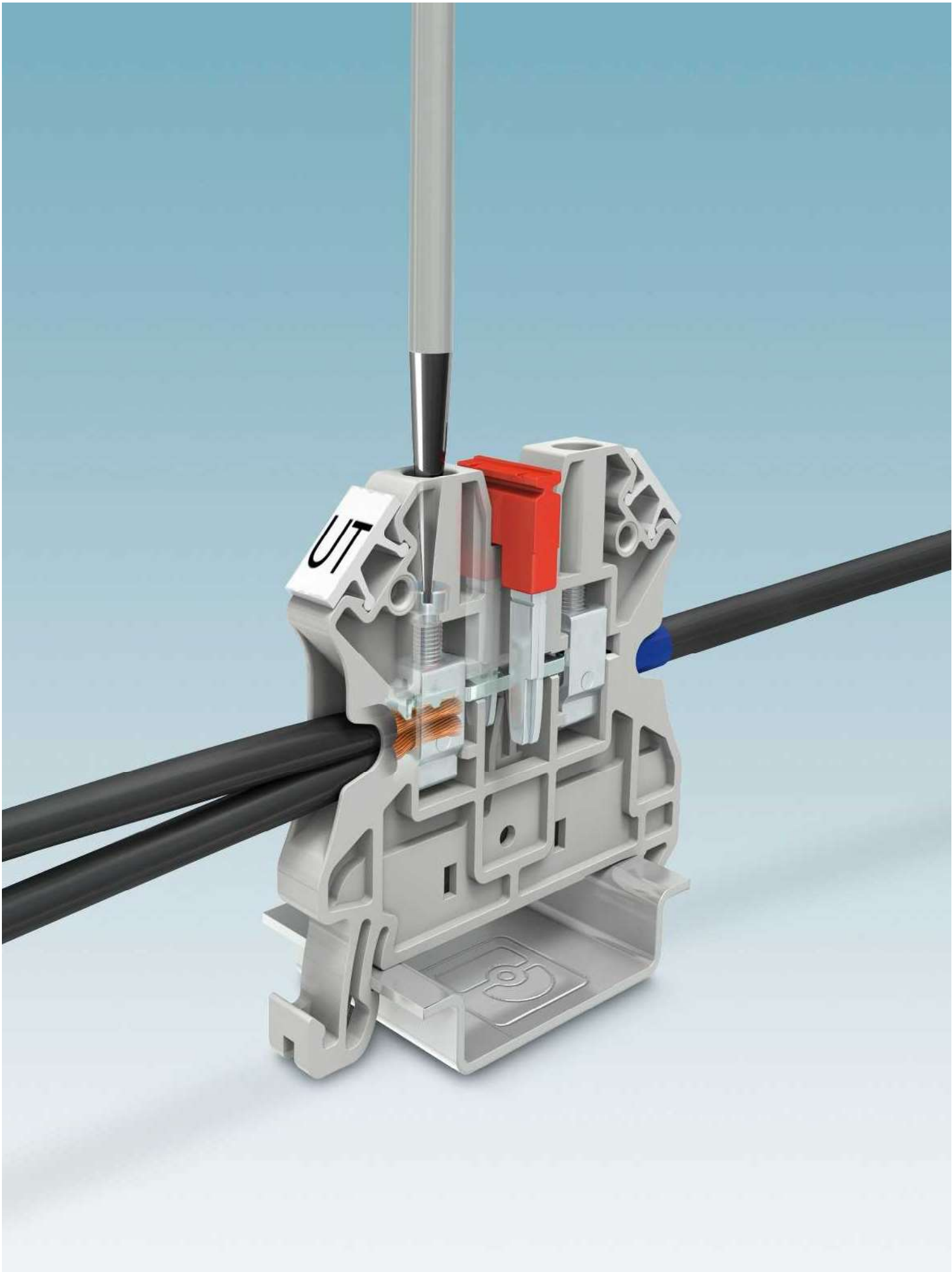
The uniform plug-in zone is an important characteristic. Connectors and basic terminal blocks with four connection technologies can be freely combined with each other, thanks to the uniform plug-in zone.

The modular structure also enables individual self-assembly of the plugs and the couplings.

All kinds of copper conductors can be connected without any pretreatment. Splicing protection can also be implemented in the form of ferrules.

COMBI connectors with all connection technologies offer a large insertion space, i.e., conductors with ferrules and insulating collars and with a nominal cross section can also be wired.





UT... screw connection terminal blocks

The UT... screw connection terminal blocks from the CLIPLINE complete system satisfy the most stringent requirements and cover a wide area of application. They impress with their maintenance-free conductor connection and offer maximum flexibility with their multi-conductor connection. You can connect conductors with a nominal cross section either with or without ferrules. It is not necessary to tighten the terminal block screws, since they are prevented from loosening by the Reakdyn principle, a screw locking technique developed by Phoenix Contact. Very large conductor cross sections up to 240 mm² can also be wired gas-tight and with long-term stability thanks to the high contact forces.

Product range overview

2.5 mm²

Feed-through, multi-conductor, and multi-level terminal blocks and ground terminals	31
Disconnect and knife disconnect terminal blocks	33
Diode and LED terminal blocks	35
Installation terminal blocks	36
Mini feed-through terminal blocks and ground terminals	39

4 mm²

Feed-through, multi-conductor, and multi-level terminal blocks and ground terminals	41
Fuse terminal blocks and lever-type disconnect terminal blocks of the same shape	43
Disconnect and knife disconnect terminal blocks	45
Test disconnect terminal blocks	49
Diode terminal blocks	50
Installation terminal blocks	51
Mini feed-through terminal blocks and ground terminals	51

6 mm²

Feed-through terminal blocks and ground terminals	53
Fuse terminal blocks	53
Disconnect and knife disconnect terminal blocks	54
Test disconnect terminal blocks	56
Installation terminal blocks	58

10 mm²

Feed-through terminal blocks and ground terminals	61
Installation terminal blocks	61

16 mm²

Feed-through terminal blocks and ground terminals	63
Installation terminal blocks	63

35 mm²

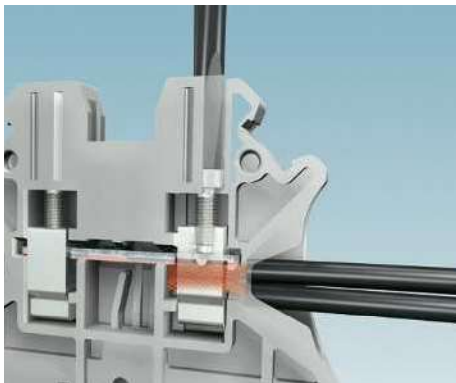
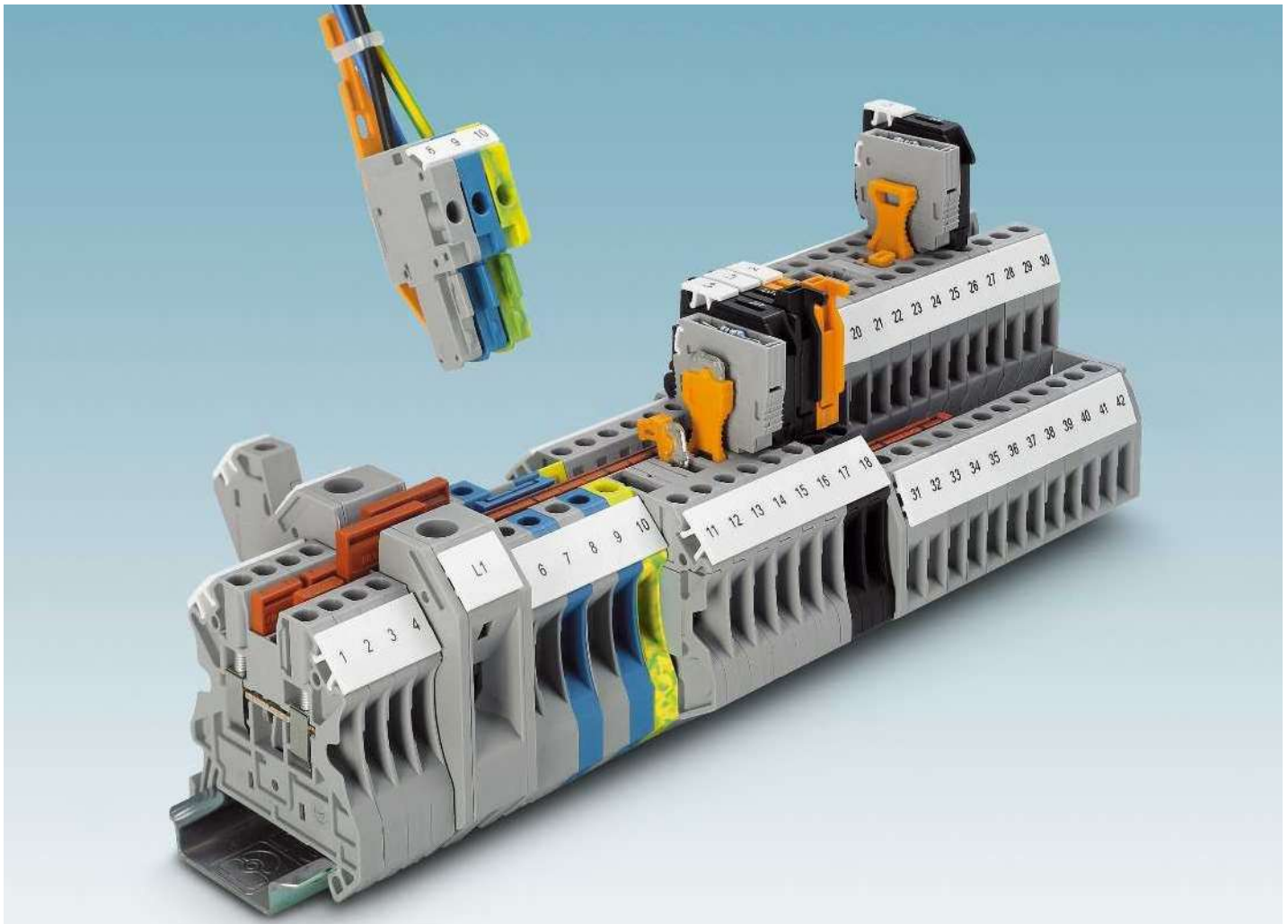
Feed-through terminal blocks and ground terminals	65
Installation terminal blocks	65

50 mm² - 240 mm²

High-current terminal blocks	67
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Terminal blocks - CLIPLINE complete

UT... screw connection terminal blocks



Universal and zero-maintenance

The screw connection is characterized by three main features.

- Global standard
- Multiple conductor connection
- Zero maintenance thanks to Reakdyn principle.



Snap-on PE foot

Ground terminals of the same shape are simply snapped onto the DIN rail in order to make contact. This mechanically and electrically efficient contacting meets all the requirements of the IEC 60947-7-2 standard.

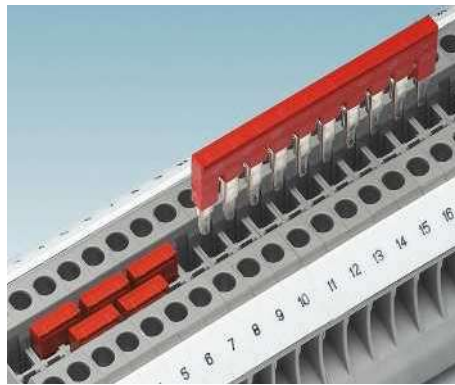


Flexible jumper system

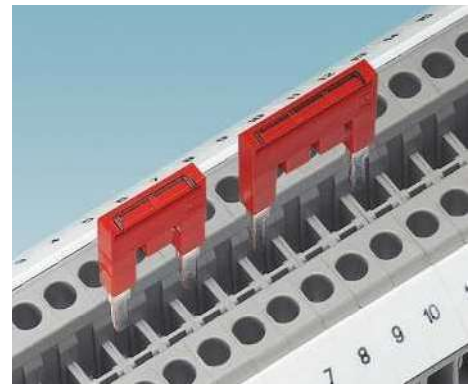
The potential distribution can be implemented at speed with the standardized jumpers. Using two bridge shafts in all terminal blocks makes flexible chain, level or jumping bridges possible.



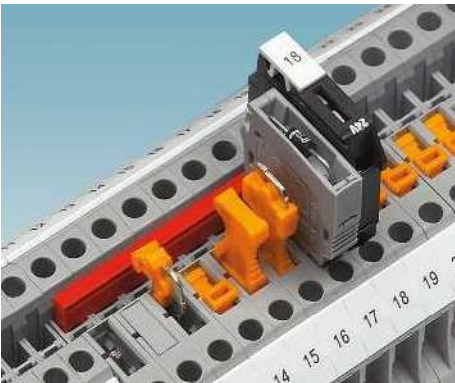
The reducing bridge enables terminal blocks with different nominal cross sections to be connected easily, e.g., a UT 10 terminal block to a UT 2,5. Power blocks can be created quickly using the reducing bridge.



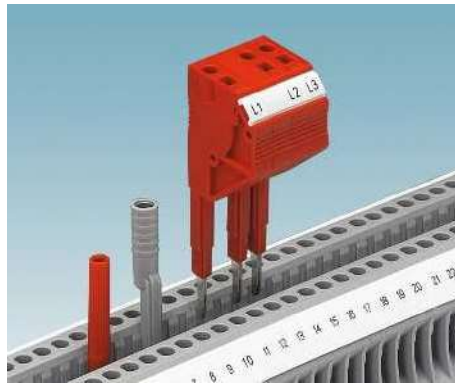
The double function shaft can be used to connect any number of terminal blocks with two-position bridges. The 2 to 50-pos. bridges allow up to 50 terminal blocks to be bridged in one step.



A jumping bridge is created by removing individual contact guides from the standard bridge. Two potentials can then be routed in parallel. The contact points can also be marked.



The P-FIX isolated feed-through connector, P-DI isolating plug, P-CO component connector, and P-FU cartridge fuse plug can be used in the universal plug-in zone of the disconnect terminal block.



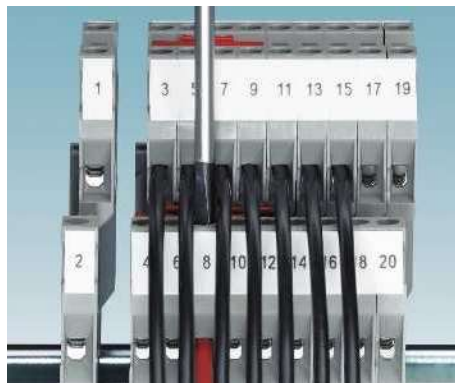
A test plug with a 2.3 mm diameter is available for measuring lines. All measurement and test work can be completed at speed using test adapters for 4 mm diameter test plugs and the modular test plugs.



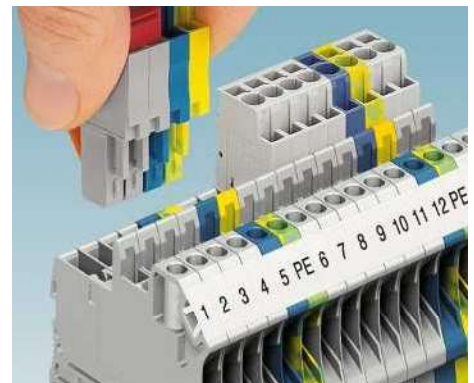
Large-surface and clear marking of the terminal points is essential for reliable and quick installation. Each terminal point in the UT... series can be marked separately.



Disconnect terminal blocks and feed-through terminal blocks UT 4-MTD are available in the same shape as the feed-through terminal blocks. All terminal blocks can be continuously bridged with one another with the double function shaft.



If fully wired, the level offset of the double-level terminal blocks allows the lower connection level to be accessed in full and provides a perfect view of the lower labeling markers and conductor entry funnel.

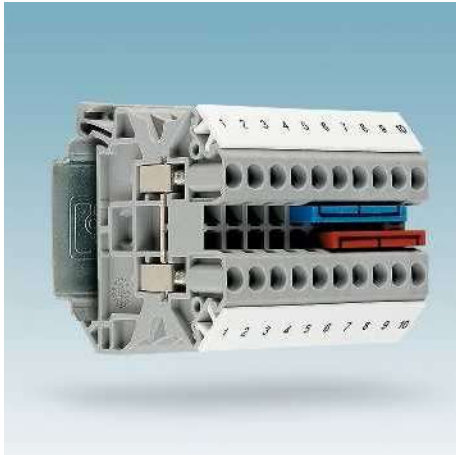


UT-COMBI terminal blocks are available for creating plug-in signal and power wiring. The system is touch proof and offers plugs for self-assembly with extensive accessories. See "COMBI" section, page 225.

Terminal blocks - CLIPLINE complete

UT... screw connection terminal blocks

UT... feed-through, multi-conductor, and multi-level terminal blocks



- Multi-level terminal blocks with PE pick-off and function level
- Signal processing and protection in a confined space, thanks to safety/disconnect lever and universal function zone
- Double bridge shaft enables individual potential distribution and supply
- Suitable for process technology, thanks to Ex nA approval
- Feed-through terminal blocks of the same shape available

i Your web code: **#0056**

UT... multifunctional terminal blocks



- A wide range of products thanks to versions with PE function or LED display
- Optimum overview of signal connections thanks to a variety of marking options
- Modular expansion up to a maximum of 50 positions, as power terminals are the same shape
- Energy supplied or enhanced by power terminals

i Your web code: **#0075**

UT... function terminal blocks



- Convenient separation of circuits using lever-type disconnect knife, isolating plug or rotary contact
- User-friendly current measurement thanks to testing facility either side of the disconnect point
- Safe operation as the disconnect lever is locked in the end positions
- Clear identification of the disconnect point thanks to color highlighting
- Individual assembly with disconnect element, fuse plug, component connector, and feed-through connector

i Your web code: **#0057**