Solutions for lights and lighting systems
Connectors and electronics housings
In dialog with customers and partners worldwide

Phoenix Contact is a global market leader in the field of electrical engineering, electronics, and automation. Founded in 1923, the family-owned company now employs around 14,000 people worldwide. A sales network with over 50 sales subsidiaries and more than 30 additional global sales partners guarantees customer proximity directly on site, anywhere in the world.

Our range of services consists of products associated with a wide variety of electrotechnical applications. This includes numerous connection technologies for device manufacturers and machine building, components for modern control cabinets, and tailor-made solutions for many applications and industries, such as the automotive industry, wind energy, solar energy, the process industry or applications in the field of water supply, power transmission and distribution, and transportation infrastructure.

Global player with personal customer contact

Company independence is an integral part of our corporate policy. Phoenix Contact therefore relies on in-house competence and expertise in a range of contexts: the design and development departments constantly come up with innovative product ideas, developing special solutions to meet customer requirements. Numerous patents emphasize the fact that many of Phoenix Contact’s products have been developed in-house.
Your strong partner for lighting connection technology

The lighting industry is changing and the global market requires efficient and progressive lighting concepts. As such, the focus is firmly placed on the design, cost-effectiveness, quality, sustainability, and flexibility of the lights. Bringing more than 90 years of experience and expertise to the table, Phoenix Contact offers you a comprehensive range of connectors in the field of connection technology.
The right solution for every application

Regardless of whether it is for flexible LED PCBs, modern office lighting, or lighting in outdoor applications – Phoenix Contact offers you the right connection solution. Over the next few pages, gain an overview of our comprehensive range of connectors, consisting of more than 50,000 articles.
Industry

Signal and display technology

Sales areas
Wire modern LED PCBs efficiently and safely

Benefit from the advantages of the connectors from the PTSM series, optimized for LED applications and only 5 mm high. Integrate numerous components in a confined space, e.g. on a PCB. This means you save time during installation due to the fast push-in connection.

Your advantages

☑ Comprehensive range with wire-to-board, board-to-board and wire-to-wire connectors
☑ Powerful push-in connection for currents up to 6 A
☑ High mechanical safety, thanks to the stable lateral solder anchor
☑ Designed for automated SMT and THR processes
PHOENIX CONTACT

Three connection solutions – one design

Wire-to-board – PTSM series
Connect and release solid and stranded conductors easily by means of the push-in connection.

PTSM wire-to-wire – PTSM series
Establish free-hanging connections quickly and easily.

PTSM board-to-board – PTSM series
Connect PCBs safely and durably to one another.

Main features
• Currents up to 6 A
• Voltages up to 320 V
• Conductor cross sections up to 0.75 mm²
• 2- to 8-pos.
• 5 mm design height
• 2.5 mm pitch
• White and black versions available
Connect flexible PCBs easily on site

With the new connectors from the PTF series, you can quickly and easily connect flexible LED PCBs. The white connectors can be integrated discretely into the application and minimize unwanted shadows on the LED PCB thanks to their flat design.

**Your advantages**

- Not necessary to solder the connection litz wires onto the contact surfaces
- Secure hold on the PCB thanks to integrated locking mechanism
- Available as a supply element or as a butt connector for 8 mm and 10 mm wide LED strips
- High current carrying capacity enables long LED strips to be connected without an additional power supply
- Small corner connectors or T-pieces simplify integration into the lighting application
PCB connectors – PTF series
Connecting elements for easy installation of flexible LED PCBs.

Supply element – PTF series
Two- or four-pos. connectors with connected cables for energy supply.

Butt connectors – PTF series
Secure PCB connection thanks to an integrated locking mechanism.

PCB connectors – PTF series
Connecting elements for easy installation of flexible LED PCBs.

Main features
• Currents up to 10 A per connector
• Voltages up to 25 V
• AWG 22 cables for the supply
• 2- and 4-pos. supply version
• Operating temperature from -30°C to +70°C
Compact connection solutions for ballasts and LED drivers

Integrate compact and innovative connection solutions from the comprehensive COMBICON range into your ballasts and LED drivers. As such, you ensure that your customers use lighting technology efficiently.

Your advantages

- Flexible choice of connection and mounting technology
- Easy integration into fully-automated production, thanks to components for THR/SMT processes
- Long service life, thanks to fully tested contact geometries and surfaces
- Developed and produced according to the latest standards

Versatile PCB terminal blocks for your devices

- **SPTAF 1**
  Angled connection and convenient operation at a low height.

- **SPT-THR and SPT-SMD**
  Quick, simple push-in connection and full reflow solderability.

- **PT and PTS**
  Freely selectable connection technology with the same size.
Main features
• Screw, spring or IDC connection
• Available as PCB terminal block and connector
• For wave and reflow soldering technology
• Optional color coding
• Mixed pitches possible

PTSA
Customizable color coding for easy conductor assignment.
Robust connection technology for industrial and outdoor lighting

High demands are placed on lighting concepts for harsh industrial environments and for outdoor applications. For this reason, Phoenix Contact offers a comprehensive range of IP-protected circular connectors and cable assemblies. Select connectors for assembly with a screw or IDC connection or use pre-assembled cables.

Your advantages

- High level of reliability, thanks to robust connectors with a IP65 to IP69K degree of protection
- Powerful connection solutions for currents up to 35 A and voltages up to 690 V
- Connectors with screw and IDC connection for flexible on-site installation
- Pre-assembled cables for fast, fault-free cabling
- Wide variety of device connectors for easy integration into your devices
Reliable circular connectors for harsh environments

M12 connectors
Connectors for self-assembly and assembled cables in accordance with the industry standard.

PRC and QPD
3- to 5-pos. connectors with screw and fast connection technology.

Cable assembly
Customer-specific cable assembly for quick, secure and fault-free connections.

Main features

PRC and QPD
- Proven screw connection or time-saving IDC fast connection
- Currents up to 35 A, voltages up to 690 V
- Conductor cross sections from 1.5 mm² to 6 mm²

M12
- Currents up to 16 A, voltages up to 630 V
- Conductor cross sections from 0.14 mm² to 1.5 mm²
- A wide variety of codings and mounted versions

Cable assembly
- Standard assemblies or customer-specific versions available
- Flexible selection of lengths and cable types
- Up to IP69K degree of protection
Electronics housings for light controls and building technology

Take advantage of the versatile housing range from Phoenix Contact for your lighting technology devices. The BC housings designed for distributor boards in accordance with DIN 43880 feature a contemporary design and optional bus connector. The EH basic housings for universal applications offer an excellent price-performance ratio and are suitable for both DIN rail mounting and fastening directly to a wall.

Your advantages

✓ Maximum flexibility thanks to free choice of PCB connection technology and various overall widths
✓ Freedom in device development as the PCB can be aligned in several spatial directions
✓ Optimum adaptation to device requirements thanks to different cover versions
✓ Save time thanks to quick and easy mounting
Electronics housings for distributor boards and optional wall mounting

BC building installation housings
Designed in accordance with DIN 43880 for distributor boards.

EH basic housings
Functional housing system for universal use.

PCB terminal blocks and PCB connectors for the BC and EH series
Free choice from a wide variety of connection methods.

Main features

EH basic housings
- 2 heights, 7 overall widths, 3 cover versions
- Integrated marking field
- DIN rail or wall mounting
- ABS material with HB (UL94) flammability rating

BC building installation housings
- 6 overall widths, 2 cover versions
- Optional 16-pos. bus connector
- Selectable terminal installation depth (11 or 22 mm)
- Suitable for distributor boards in accordance with DIN 43880
Surge protection and device protection for LED lighting systems

LED technology provides durable solutions for road and building lighting. Premature blackouts caused by surge voltages significantly reduce the savings potential of energy-saving LED lights. This is often caused by ballasts which are sensitive to transient voltages. The dimensions of the LED arresters allow them to be installed directly in the lamp or the cable junction box. Due to the increased insulation, usage in LED applications in protection class II equipment is easily possible.

Your advantages

- Easy retrofitting thanks to compact design
- Flexible mounting thanks to integrated, elongated holes
- Can be used in a wide variety of applications thanks to versions for protection classes I and II
- High electric strength due to double insulation
- Wide range of possible applications thanks to wide voltage range
Protecting lighting systems from damage due to surge voltage

Type 1/2 surge protective device VALVETRAB MS available for various grid configurations and performance classes for use in the distributor box.

Type 2 surge protective device BLOCKTRAB for insulation class I with PE connection for direct use in the lamp or in the cable junction box.

Type 2 surge protective device BLOCKTRAB for insulation class II without PE connection for direct use in the lamp or in the cable junction box.

Main features
- Reinforced (double) insulation for use in insulation class II
- Expanded signaling of the protection status through L connection
- For insulated and grounded lighting installation
- Low voltage protection level of < 1.3 kV
- Nominal voltage range 100 V AC ... 277 V AC
- Tested and certified by KEMA
PCB terminal blocks and PCB connectors

Find out more with the web code

You can find web codes in this brochure: a pound sign followed by a four-digit number combination.

Web code: #1234 (example)
This allows you to access information on our website quickly.

It couldn’t be simpler:
1. Go to the Phoenix Contact website
2. Enter # and the number combination in the search field
3. Get more information and product versions

Or use the direct link: phoenixcontact.net/webcode/#1234

Connectors for flexible LED strips – PTF series

<table>
<thead>
<tr>
<th>Webcode: #0938</th>
<th>Product range</th>
<th>Notes</th>
<th>Number of positions</th>
<th>Pitch</th>
<th>Current (A)</th>
<th>Voltage (V)</th>
<th>Connection direction</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>PTF 0,3/..-WB</td>
<td>Connectors for flexible LED PCBs</td>
<td>2–4</td>
<td>For 8 mm and 10 mm-wide flexible LED strips</td>
<td>10 A / connector</td>
<td>24</td>
<td>0°</td>
</tr>
<tr>
<td></td>
<td>PTF 0,3/..-BB</td>
<td>PCB connectors for flexible PCBs</td>
<td>4</td>
<td></td>
<td>10 A / connector</td>
<td>24</td>
<td>0°</td>
</tr>
<tr>
<td></td>
<td>PTF 0,3/..-Flex</td>
<td>Connection PCBs</td>
<td>4</td>
<td>For 8 mm and 10 mm-wide flexible LED strips</td>
<td>10 A / element</td>
<td>24</td>
<td>0°</td>
</tr>
<tr>
<td>Product range</td>
<td>Notes</td>
<td>Number of positions</td>
<td>Pitch</td>
<td>Current (A)</td>
<td>Voltage (V)</td>
<td>Connection direction</td>
<td></td>
</tr>
<tr>
<td>-----------------</td>
<td>----------------------------------------------------------------------</td>
<td>---------------------</td>
<td>-------</td>
<td>-------------</td>
<td>-------------</td>
<td>----------------------</td>
<td></td>
</tr>
<tr>
<td>PTSM 0,5/…-H-SMD</td>
<td>Higher voltage possible (IEC in accordance with II/2: 320 V), white, with latching</td>
<td>1–8</td>
<td>2.5</td>
<td>6</td>
<td>160</td>
<td>0°</td>
<td></td>
</tr>
<tr>
<td>PTSM 0,5/…-V-SMD</td>
<td>Higher voltage possible (IEC in accordance with II/2: 320 V), white, with latching</td>
<td>2–8</td>
<td>2.5</td>
<td>6</td>
<td>160</td>
<td>90°</td>
<td></td>
</tr>
<tr>
<td>PTSM 0,5/…-P</td>
<td>Higher voltage possible (IEC in accordance with II/2: 320 V), white, with latching</td>
<td>2–8</td>
<td>2.5</td>
<td>6</td>
<td>160</td>
<td>0°</td>
<td></td>
</tr>
<tr>
<td>PTSM 0,5/…-PI</td>
<td>Higher voltage possible (IEC in accordance with II/2: 320 V), white, with latching</td>
<td>2–8</td>
<td>2.5</td>
<td>6</td>
<td>160</td>
<td>0°</td>
<td></td>
</tr>
<tr>
<td>PTSM 0,5/…-PL</td>
<td>Higher voltage possible (IEC in accordance with II/2: 320 V), white, with latching</td>
<td>2–8</td>
<td>2.5</td>
<td>6</td>
<td>160</td>
<td>0°</td>
<td></td>
</tr>
<tr>
<td>PTSM 0,5/…-HH-SMD</td>
<td>Higher voltage possible (IEC in accordance with II/2: 320 V), white, with latching</td>
<td>2–8</td>
<td>2.5</td>
<td>6</td>
<td>160</td>
<td>0°</td>
<td></td>
</tr>
<tr>
<td>PTSM 0,5/…-HV-SMD</td>
<td>Higher voltage possible (IEC in accordance with II/2: 320 V), white, with latching</td>
<td>2–8</td>
<td>2.5</td>
<td>6</td>
<td>160</td>
<td>90°</td>
<td></td>
</tr>
<tr>
<td>PTSM 0,5/…-HTB-SMD</td>
<td>Higher voltage possible (IEC in accordance with II/2: 320 V), white, with latching</td>
<td>2–8</td>
<td>2.5</td>
<td>6</td>
<td>160</td>
<td>90°</td>
<td></td>
</tr>
<tr>
<td>PTSM 0,5/…-HHI-SMD</td>
<td>Higher voltage possible (IEC in accordance with II/2: 320 V), white, with latching</td>
<td>2–8</td>
<td>2.5</td>
<td>6</td>
<td>160</td>
<td>0°</td>
<td></td>
</tr>
</tbody>
</table>
### PCB connectors with push-in spring connection

<table>
<thead>
<tr>
<th>Web code: #0940</th>
<th>Product range</th>
<th>Notes</th>
<th>Number of positions</th>
<th>Pitch</th>
<th>Current (A)</th>
<th>Voltage (V)</th>
<th>Connection direction</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="PTS 1,5/..-PH" /></td>
<td>PTS 1,5/..-PH</td>
<td>Mixed pitches possible with PTS 1,5, special versions on request</td>
<td>2–12</td>
<td>5</td>
<td>12</td>
<td>400</td>
<td>0°</td>
</tr>
<tr>
<td><img src="image" alt="PST 1,3/..-5,0-SF" /></td>
<td>PST 1,3/..-5,0-SF</td>
<td>THR/wave soldering-capable</td>
<td>2–16</td>
<td>5</td>
<td>12</td>
<td>320</td>
<td>90°</td>
</tr>
<tr>
<td><img src="image" alt="PTS 1,5/..-H" /></td>
<td>PTS 1,5/..-H</td>
<td></td>
<td>2–12</td>
<td>5</td>
<td>12</td>
<td>400</td>
<td>0°</td>
</tr>
</tbody>
</table>

### PCB terminal blocks with push-in spring connection

<table>
<thead>
<tr>
<th>Web code: #0940</th>
<th>Product range</th>
<th>Notes</th>
<th>Number of positions</th>
<th>Pitch</th>
<th>Current (A)</th>
<th>Voltage (V)</th>
<th>Connection direction</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="PTS 1,5/..-PH" /></td>
<td>PTS 1,5/..-PH</td>
<td>Mixed pitches possible with PTS 1,5, special versions on request</td>
<td>2–12</td>
<td>2.5</td>
<td>2</td>
<td>250</td>
<td>0°</td>
</tr>
<tr>
<td><img src="image" alt="PST 1,3/..-5,0-SF" /></td>
<td>PST 1,3/..-5,0-SF</td>
<td>THR/wave soldering-capable</td>
<td>2–16</td>
<td>3.5 and 5.0</td>
<td>8</td>
<td>160</td>
<td>45°</td>
</tr>
<tr>
<td><img src="image" alt="PTS 1,5/..-H" /></td>
<td>PTS 1,5/..-H</td>
<td></td>
<td>2–12</td>
<td>5</td>
<td>8</td>
<td>320</td>
<td>90°</td>
</tr>
<tr>
<td><img src="image" alt="PTS 1,5/..-LL" /></td>
<td>PTS 1,5/..-LL</td>
<td>Release button with locking function</td>
<td>2–16</td>
<td>3.5</td>
<td>8</td>
<td>160</td>
<td>45°</td>
</tr>
</tbody>
</table>
### PCB terminal blocks with push-in spring connection

<table>
<thead>
<tr>
<th>Product range</th>
<th>Notes</th>
<th>Number of positions</th>
<th>Pitch</th>
<th>Current (A)</th>
<th>Voltage (V)</th>
<th>Connection direction</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPT 1,5/..-H-SMD</td>
<td>SMT soldering</td>
<td>2–12</td>
<td>3.5; 3.81; 5; 5.08</td>
<td>13.5</td>
<td>320</td>
<td>0°</td>
</tr>
<tr>
<td>SPT 1,5/..-V-SMD</td>
<td>SMT soldering</td>
<td>2–12</td>
<td>3.5; 3.81; 5; 5.08</td>
<td>13.5</td>
<td>320</td>
<td>90°</td>
</tr>
</tbody>
</table>

### PCB terminal blocks with screw connection with wire guard

<table>
<thead>
<tr>
<th>Product range</th>
<th>Notes</th>
<th>Number of positions</th>
<th>Pitch</th>
<th>Current (A)</th>
<th>Voltage (V)</th>
<th>Connection direction</th>
</tr>
</thead>
<tbody>
<tr>
<td>PT 1,5/..-H</td>
<td></td>
<td>2–16</td>
<td>3.5 and 5.0</td>
<td>16</td>
<td>400</td>
<td>0°</td>
</tr>
<tr>
<td>PT 1,5/..-V</td>
<td></td>
<td>2–16</td>
<td>3.5 and 5.0</td>
<td>16</td>
<td>400</td>
<td>90°</td>
</tr>
<tr>
<td>PTA 1,5</td>
<td></td>
<td>2–16</td>
<td>3.5 and 5.0</td>
<td>16</td>
<td>400</td>
<td>45°</td>
</tr>
</tbody>
</table>
## Circular connectors

### M12 circular connectors

<table>
<thead>
<tr>
<th>Note</th>
<th>Number of pos.</th>
<th>Conductor cross section</th>
<th>Current (A)</th>
<th>Voltage (V)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flush-type connector, contact carrier socket, A-coded</td>
<td>4</td>
<td>4</td>
<td></td>
<td>250</td>
</tr>
<tr>
<td>Flush-type connector with individual litz wires, socket, S-coded</td>
<td>3+PE</td>
<td>1.5 mm²</td>
<td>12</td>
<td>630</td>
</tr>
<tr>
<td>Connector for field assembly, screw connection, pin, S-coded</td>
<td>3+PE</td>
<td>1.5 mm²</td>
<td>12</td>
<td>630</td>
</tr>
</tbody>
</table>

- Housing screw connection for M12 socket inserts, flat gasket, for all Speedcon-capable THR and wave soldering contact carriers
- M12 housing screw connection with tolerance-compensating function, for straight, THR-capable M12 socket contact inserts, suitable for front plate panel thickness of 1.7 mm ... 2.5 mm

### Assembled M12 cables and QPD installation system

<table>
<thead>
<tr>
<th>Note</th>
<th>Number of pos.</th>
<th>Conductor cross section</th>
<th>Current (A)</th>
<th>Voltage (V)</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power cable, straight M12 SPEEDCON connector, S-coded on free end of cable</td>
<td>4</td>
<td>1.5 mm²</td>
<td>12</td>
<td>630</td>
<td>2.0 m</td>
</tr>
<tr>
<td>Sensor/actuator cable, various cable types and lengths, straight M12 connector, A-coded, straight M12 to socket, A-coded</td>
<td>4</td>
<td>Variable</td>
<td>4</td>
<td>250</td>
<td>Variable</td>
</tr>
<tr>
<td>Pre-assembled cable with QUICKON connectors, with 5 x 2.5 PVC cable</td>
<td>4+PE</td>
<td>2.5 mm²</td>
<td>20</td>
<td>690</td>
<td>1.0 m</td>
</tr>
</tbody>
</table>
### Circular connectors with screw connection – PRC series

<table>
<thead>
<tr>
<th>Web code: #0200</th>
<th>Note</th>
<th>Number of positions</th>
<th>Conductor cross section</th>
<th>Current (A)</th>
<th>Voltage (V)</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Connector icon]</td>
<td>Connector with screw connection, for cable diameters from 10 mm ... 12 mm</td>
<td>5</td>
<td>1.5 mm² ... 6 mm²</td>
<td>30</td>
<td>630</td>
</tr>
<tr>
<td>![Device connector icon]</td>
<td>Device connector with litz wires, cable length 150 mm</td>
<td>5</td>
<td>2.5 mm² litz wire</td>
<td>30</td>
<td>630</td>
</tr>
<tr>
<td>![Connector icon]</td>
<td>Connector with screw connection, for cable diameters from 8 mm ... 12 mm</td>
<td>3</td>
<td>1.5 mm² ... 6 mm²</td>
<td>30</td>
<td>630</td>
</tr>
<tr>
<td>![Device connector icon]</td>
<td>Device connector with litz wires, cable length 150 mm</td>
<td>3</td>
<td>2.5 mm² litz wire</td>
<td>30</td>
<td>630</td>
</tr>
<tr>
<td>![Device connectors icon]</td>
<td>Device connectors, contact carriers for crimp contacts</td>
<td>3</td>
<td>For 2.5 ... 6 mm² crimp contacts</td>
<td>30</td>
<td>630</td>
</tr>
<tr>
<td>![Crimp contact icon]</td>
<td>Crimp contact for 2.5 mm² conductor cross section</td>
<td></td>
<td>2.5 mm²</td>
<td>30</td>
<td>630</td>
</tr>
</tbody>
</table>

### Installation system with IDC fast connection – QPD series

<table>
<thead>
<tr>
<th>Web code: #0963</th>
<th>Note</th>
<th>Number of positions</th>
<th>Conductor cross section</th>
<th>Current (A)</th>
<th>Voltage (V)</th>
</tr>
</thead>
<tbody>
<tr>
<td>![H-distributor icon]</td>
<td>H-distributor, for 4-9 mm cable diameters</td>
<td>2+PE</td>
<td>0.5-1.5 mm² / AWG 20-16</td>
<td>17.5</td>
<td>690</td>
</tr>
<tr>
<td>![H-distributor icon]</td>
<td>H-distributor, for 5-10 mm cable diameters</td>
<td>4+PE</td>
<td>0.5-1.5 mm² / AWG 20-16</td>
<td>17.5</td>
<td>690</td>
</tr>
<tr>
<td>![T-distributor icon]</td>
<td>T-distributor, for 4-9 mm cable diameters</td>
<td>2+PE</td>
<td>0.5-1.5 mm² / AWG 20-16</td>
<td>17.5</td>
<td>690</td>
</tr>
<tr>
<td>![Cable connector icon]</td>
<td>Cable connector, for 4-9 mm cable diameters</td>
<td>2+PE</td>
<td>0.5-1.5 mm² / AWG 20-16</td>
<td>17.5</td>
<td>690</td>
</tr>
<tr>
<td>![Cable connector icon]</td>
<td>Cable connector, for 5-10 mm cable diameters</td>
<td>4+PE</td>
<td>0.5-1.5 mm² / AWG 20-16</td>
<td>17.5</td>
<td>690</td>
</tr>
<tr>
<td>![Panel feed-through icon]</td>
<td>Panel feed-through, solder or spade connection</td>
<td>2+PE</td>
<td>0.5-1.5 mm² / AWG 20-16</td>
<td>17.5</td>
<td>690</td>
</tr>
<tr>
<td>![Panel feed-through icon]</td>
<td>Panel feed-through, litz wires</td>
<td>4+PE</td>
<td>0.5-1.5 mm² / AWG 20-16</td>
<td>17.5</td>
<td>690</td>
</tr>
<tr>
<td>![Panel feed-through icon]</td>
<td>Panel feed-through, litz wires</td>
<td>2+PE</td>
<td>0.5-1.5 mm² / AWG 20-16</td>
<td>17.5</td>
<td>690</td>
</tr>
<tr>
<td>![Connectors icon]</td>
<td>Connectors, for 4-9 mm cable diameters</td>
<td>2+PE</td>
<td>0.5-1.5 mm² / AWG 20-16</td>
<td>17.5</td>
<td>690</td>
</tr>
</tbody>
</table>
# Basic housings for universal applications – EH series

<table>
<thead>
<tr>
<th>Note</th>
<th>Housing width in mm</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tall design</td>
<td>22.5 / 35 / 45 / 52.5 / 67.5 / 70 / 90</td>
<td>Light gray</td>
</tr>
<tr>
<td>Tall design</td>
<td>22.5 / 35 / 45 / 52.5 / 67.5 / 70 / 90</td>
<td>Black</td>
</tr>
<tr>
<td>Upper part, both sides open</td>
<td>22.5 / 35 / 45 / 52.5 / 67.5 / 70 / 90</td>
<td>Light gray</td>
</tr>
<tr>
<td>Upper part, one side open</td>
<td>22.5 / 35 / 45 / 52.5 / 67.5 / 70 / 90</td>
<td>Black</td>
</tr>
<tr>
<td>Flat design</td>
<td>22.5 / 35 / 45 / 52.5 / 67.5 / 70 / 90</td>
<td>Light gray</td>
</tr>
<tr>
<td>Flat design</td>
<td>22.5 / 35 / 45 / 52.5 / 67.5 / 70 / 90</td>
<td>Black</td>
</tr>
<tr>
<td>Upper part, both sides open</td>
<td>22.5 / 35 / 45 / 52.5 / 67.5 / 70 / 90</td>
<td>Light gray</td>
</tr>
<tr>
<td>Upper part, one side open</td>
<td>22.5 / 35 / 45 / 52.5 / 67.5 / 70 / 90</td>
<td>Black</td>
</tr>
<tr>
<td>Left MSTBO header, 4-pos.</td>
<td>22.5 / 35 / 45 / 52.5 / 67.5 / 70 / 90</td>
<td>Green</td>
</tr>
<tr>
<td>Right MSTBO header, 4-pos.</td>
<td>22.5 / 35 / 45 / 52.5 / 67.5 / 70 / 90</td>
<td>Green</td>
</tr>
</tbody>
</table>
## Modular building installation housings – BC series

<table>
<thead>
<tr>
<th>Note</th>
<th>Housing width in mm</th>
<th>Terminal installation depth in mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lower part</td>
<td>17.8 / 35.6 / 53.6 / 71.6 / 107.6 / 161.6</td>
<td></td>
</tr>
<tr>
<td>Upper part</td>
<td>17.8 / 35.6 / 53.6 / 71.6 / 107.6 / 161.6</td>
<td>11/22</td>
</tr>
<tr>
<td>Cover, permanently snapped in</td>
<td>17.8 / 35.6 / 53.6 / 71.6 / 107.6 / 161.6</td>
<td></td>
</tr>
<tr>
<td>Cover, transparent with fitted cover</td>
<td>17.8 / 35.6 / 53.6 / 71.6 / 107.6 / 161.6</td>
<td></td>
</tr>
<tr>
<td>HBUS connector, 16-pos.</td>
<td>17.8 / 35.6 / 53.6 / 71.6 / 107.6 / 161.6</td>
<td></td>
</tr>
<tr>
<td>HBUS power connector, 16-pos., 500 mm cable length</td>
<td>17.8 / 35.6 / 53.6 / 71.6 / 107.6 / 161.6</td>
<td>22 mm</td>
</tr>
</tbody>
</table>

## Surge protective devices

<table>
<thead>
<tr>
<th>Name</th>
<th>Note</th>
<th>Nominal voltage</th>
<th>Rated load current</th>
<th>Nominal discharge current</th>
<th>Voltage protection level</th>
</tr>
</thead>
<tbody>
<tr>
<td>BLT-T2</td>
<td>Insulation class II</td>
<td>100-277 V AC</td>
<td>16 A</td>
<td>5 kA</td>
<td>1.3 kV class</td>
</tr>
<tr>
<td>BLT-T2-1S</td>
<td>Insulation class I</td>
<td>100-277 V AC</td>
<td>16 A</td>
<td>5 kA</td>
<td>1.3 kV class</td>
</tr>
<tr>
<td>VAL-MS-T1/T2</td>
<td></td>
<td>240/415 V AC (TN-S)</td>
<td>80 A</td>
<td>12.5 kA</td>
<td>≤ 1.2 kV</td>
</tr>
</tbody>
</table>
Professional service

In addition to our comprehensive range of standard products, we can also offer a high degree of flexibility when it comes to customer-specific modifications. From color versions, to printing, right through to special packaging, we can provide you with almost anything – even brand new product developments.

Flexible versions
Whether it's individual colors, modern special printing, a specific number of contacts or complete cable assembly – our service centers will be happy to support you in quickly implementing your requirements.

Innovation expertise
Benefit from our extensive development and manufacturing expertise for your individual solution – from the initial idea to series production.

Professional service and support
During the design-in process, we'll offer advice and support from the initial inquiry right up to the finished product, wherever you are in the world.

An example of outstanding individual customer solutions: LED street lighting from Hella.
Wide range of color versions
Customer-specific cable assemblies
Individual printing
Special punching, coding, and pin lengths

Connection block for temperature sensors
Connection technology for flexible LED PCBs outdoors
Connection system for LED street lighting
Controller housing with front connection technology

Fast product selection using web tools
Convenient 3D data download
International training on products and technologies
Always up-to-date, always available to you. Here you’ll find everything on our products, solutions and service:
phoenixcontact.com

Product range
• Cables and wires
• Connectors
• Controllers
• Electronics housings
• Electronic switchgear and motor control
• Fieldbus components and systems
• Functional safety
• HMIs and industrial PCs
• I/O systems
• Industrial communication technology
• Industrial Ethernet
• Installation and mounting material
• Lighting and signaling
• Marking and labeling
• Measurement and control technology
• Monitoring
• PCB terminal blocks and PCB connectors
• Power supply units and UPS
• Protective devices
• Relay modules
• Sensor/actuator cabling
• Software
• Surge protection and interference filters
• System cabling for controllers
• Terminal blocks
• Tools
• Wireless data communication

PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstraße 8
32825 Blomberg, Germany
Phone: + 49 5235 3-00
Fax: + 49 5235 3-41200
E-mail: info@phoenixcontact.com
phoenixcontact.com