Photovoltaic connectors
Product overview 2018/2019
Are you looking for innovative and reliable connection technology for your photovoltaic panels, inverters, or for the complete photovoltaic system? Then Phoenix Contact is the right partner for you.

We offer the perfect and comprehensive solution for cabling your photovoltaic system.

**Photovoltaic connectors for DC and AC cabling**

**DC connectors**
- Currents up to 65 A
- Voltages up to 1500 V
- Conductor cross sections from 2.5 to 16 mm²
- Connection technology for building-integrated photovoltaics (BIPV)

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 could not be easier:
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
AC connectors
• Currents up to 70 A
• Voltages up to 690 V
• Conductor cross sections from 1.5 to 16 mm²
• Circular and rectangular connectors
• Connection technology for micro inverters

The right connection technology for every application

Building-integrated photovoltaics (BiPV)  Rooftop systems  Free-standing systems

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Product range overview
Photovoltaic connectors

We have the right connection solution for you – from connection technology for photovoltaic panels, through DC connectors for field cabling, to device connections for signals, data, and power.

The tailored, high-quality components contribute to the long-term and increased availability of your system.

Consistent connection technology from the photovoltaic panel to the supply

1. PCB terminal blocks for module junction boxes (see page 6)
2. DC connectors with crimp connection for machine processing (see page 8)
3. DC connectors with SUNCLIX spring connection for field cabling (see page 9)
4. DC distributors (see page 9)
5. SOLARCHECK RSD DC panel shutdown (see page 10/11)
DC fuse connectors (see page 8)
DC panel feed-throughs (see page 9)
Data and signal connectors (see page 12)
PCB connections (see page 13)
AC connectors (see page 13)
Using cost-optimized PCB terminal blocks without insulating bodies, you can connect round conductors to your module junction box quickly and safely.

PTSPL 6 PCB terminal block with solder connection
- Currents up to 41 A
- Designed for automated THR soldering processes
- Available with a solder pin length of 2.1 and 2.9 mm
- SUNCLIX spring connection for conductor cross sections from 2.5 to 6 mm²
- Closed version with Push-in connection
- Delivery with open or closed spring on a 32” coil for automated processes

PTSPL-W PCB terminal block with welded bracket
- Currents up to 41 A
- Available with welded bracket on the right or left for spot-welding procedures
- SUNCLIX spring connection for conductor cross sections from 2.5 to 6 mm²
- Delivery with closed spring in bulk or in the tray for automated processes

SUNCLIX DC connector with crimp connection
- A single male connector for all crimp contacts
- Conductor cross sections of 2.5 to 4 mm² (AWG 14 - 12) and 6 mm² (AWG 10)
- Voltages up to 1500 V
- IP68 degree of protection (24 h/2 m)
- Approval in accordance with DIN EN 62852, UL 6703
- Suitable for automated processing
DC connection technology for building-integrated photovoltaics (BIPV)

With SUNCLIX mini, Phoenix Contact is offering a particularly compact DC connection system designed to meet the trend of producing energy via building-integrated photovoltaics. For a permanently secure and reliable connection from panel to inverter.

**Installing the module junction box**

1. Position the module junction box above the ribbon
2. Remove the adhesive strip and position the module junction box on the edges of the glass
3. Insert the ribbon into the spring case, snap in the spring, and close the connection area with the cover
4. Fill the special openings of the module junction box in turn with sealant

**Single-position module junction box**

One module junction box is used per ribbon (right and left module junction box). Both module junction boxes are integrated into the building-integrated panel and sealed with sealant.

- Current: 15 A
- Voltage: 1000 V DC
- Qualified ribbon:
  - width: 5 mm/ thickness: 0.05 to 0.2 mm
- Conductor cross section: 2.5 mm²
- Spring connection
DC connection technology for field cabling

When installing photovoltaic systems, there is now a more efficient way of wiring cables of various lengths from the panel through to the inverter – with the SUNCLIX connection system from Phoenix Contact.

The one-piece DC connectors can be connected quickly and easily without using special tools, thanks to spring technology. The unique spring technology ensures that contact to the conductors is always reliable and stable.

**Connectors with crimp connection**
- For conductor cross sections from 2.5 to 6 mm²
- Voltages up to 1500 V
- IP68 degree of protection (24 h/2 m)
- Approval in accordance with IEC 62852 (UL 6703)

**Fuse plugs**
- Robust, easy-to-install fuse element for outdoor use
- High-quality Littelfuse fuse-link
- Nominal currents 3.5 to 25 A
- 1000 or 1500 V (EN)
- IP68 degree of protection (24 h/2 m)
- 2PfG 2380/02.12
Panel feed-throughs
- Pre-assembled or for assembly with crimp connection
- Voltages up to 1500 V
- Currents up to 40 A
- Approval in accordance with IEC 62852 and UL 6703

Connectors for field assembly
- Just two versions for conductor cross sections from 2.5 to 16 mm²
- Patented SUNCLIX spring connection
- Voltages up to 1500 V
- Currents up to 65 A
- IP68 degree of protection (24 h/2 m)
- Approval in accordance with IEC 62852 and UL 6703

DC distributors
- For the parallel connection of panels and strings
- Optimized for voltages up to 1500 V
- Customer-specific pre-assembly possible
- Approval in accordance with 2PfG 1913/04.2011

SUNCLIX spring connection
1. Insert the stripped photovoltaic conductor
2. Press down the spring and snap it into place
3. Tighten the screw connection – and you’re done!

PHOENIX CONTACT 9
Photovoltaic rooftop systems generate DC voltages of up to 1000 V and cannot be disconnected easily on the DC side. This presents a problem if the system is damaged. SOLARCHECK RSD automatically shuts down your system safely. You are protected from the risk of life-threatening electric shocks during installation and maintenance or in dangerous situations.

**Photovoltaic panel shutdown with Auto Rapid Shutdown**

SOLARCHECK RSD analyzes the current and voltage conditions on the DC side in the system. Deviations from the normal state or shutdown of the inverter result in automatic shutdown of the photovoltaic panels. The system is restarted automatically once the environment is technically safe.
Electrical safety with panel shutdown
Each shutdown unit disconnects the corresponding photovoltaic panel from the string group. There is then no risk of electric shock in the system.

Danger to life without panel shutdown
The series connection of photovoltaic panels to strings generates voltages of up to 1000 V. Disconnection at the inverter is not safe, as the DC cables continue to carry high voltages.

Electrical safety with panel shutdown
Each shutdown unit disconnects the corresponding photovoltaic panel from the string group. There is then no risk of electric shock in the system.

Your advantages
- Safe connections which are stable over the long term, thanks to proven SUNCLIX components
- Controlled restart via safe autostart
- No additional communication necessary via cables or wirelessly
- Easy to install in new and existing systems using existing DC cables
- Simple startup: no programming or manual setup

Intelligent photovoltaic panel shutdown with SOLARCHECK RSD

1000 V DC ≤\( U_{oc\ panel} \)
Phoenix Contact provides a comprehensive range for connection to devices of all performance classes. Whether AC or DC, circular or rectangular, for signals, data or power – the connectors cover a wide range of requirements. Device connectors, PCB connection technology, and accessories complete the comprehensive portfolio.

**SUNCLIX DC connector with spring connection**
- Currents up to 65 A
- Voltages up to 1500 V
- Conductor cross section of 2.5 to 16 mm²
- IP66/IP68 degree of protection (24 h/2 m)

**Signal and data connector**
- Copper and fiber optic-based data connectors
- M5 to M23 signal connectors, 3-pos. to 19-pos.
- Shielded with a round conductor within the device, 6 kV electric strength, easy routing
- Connector systems for assembly and pre-assembled connector systems
- Solutions for IP20, IP65/IP67, and IP69K
PLW 16 panel feed-through terminal block with push-lock spring connection

• For 1-phase and 3-phase devices
• Easy connection and removal of conductors using a Push-in spring connection on the outside
• Fast Push-in spring connection on the inside
• Currents up to 41 A
• Voltages up to 1000 V
• Conductor cross section of 2.5 to 16 mm²
• Can be sealed

PRC AC connector with screw connection

• For 1-phase and 3-phase devices
• Currents up to 35 A
• Voltages up to 690 V
• Conductor cross section of 1.5 to 6 mm²
• IP68 degree of protection (24 h/2 m) and IP69K
• Can be sealed

VARIOCON AC connector with screw connection

• For 1-phase and 3-phase devices
• Currents up to 70 A
• Voltages up to 690 V
• Conductor cross section of 1.5 to 16 mm²
• IP65/IP68 degree of protection (24 h/2 m)
• Hybrid-capable, thanks to modular design
Are you looking for an innovative, universal, and easy-to-install connection technology for your micro inverters?

SUNCLIX micon, the new connection system from Phoenix Contact, was developed to meet your requirements. The connection system is user-friendly and can be pre-assembled according to your requirements to enable Plug and Play at the installation site.

**Unlocking tool**
The locking mechanism on the connectors is extremely robust and prevents unintentional release. The lock is opened quickly and easily using the unlocking tool. Thanks to an additional latch, the tool does not fall out of the connector housing once it has been released.

**AC-Y connector**
The AC-Y connector consists of two 3-position connections, which are connected to each other via the trunk line without the risk of polarity reversal. In addition to accommodating the trunk line, the coupling side also accommodates the drop line, which serves as a connection to the inverter.

**Protective caps**
Dust protective caps, made from biodegradable plastic, protect the pin connector pattern from contamination during transport. When it comes to installation, the caps can be easily removed from the connector without any special tools. During installation, the IP protective caps are inserted as end caps on the last connector in order to protect the connector from atmospheric influences.
Main features

- Three-position, coded pin connector pattern (protection against polarity reversal)
- Maximum reliability, thanks to SUNCLIX contacts
- Trunk line:
  - Nominal currents up to 20 A
  - Voltages up to 600 V
- Drop line:
  - Nominal currents up to 5 A (use of micro inverters with 500 W output power possible)
- IP67 degree of protection
- Connection system for the AC and DC side of your micro inverters, from a single source
- Approval in accordance with UL 6703

DC connector with spring connection

With the SUNCLIX DC connectors as a device plug or for field assembly, you can also impress with high performance and quality on the panel side.

Mains connector

The mains connectors provide the connecting link between the photovoltaic system and the mains. Depending on the system structure, the mains connection can either be via the connector or coupling side of the AC-Y connector. The free cable end is either connected in a distributor box or fed into a service panel via a cable sleeve.
AC connection technology for inverters and tracking systems

PRC series circular connectors are ideally suited for compact and safe power transmission in outdoor applications. The device, coupling, and field connectors are manufactured from special plastics. They enable countless connection solutions for micro and string inverters, as well as for tracking systems. The comprehensive accessories and customized versions provide additional flexibility.

Your advantages
- 3-position and 5-position versions, enabling a high power density in a compact design
- Developed and certified for indoor and outdoor applications with degrees of protection up to IP69K
- Unplugged device connectors also feature a longitudinal water tightness of IPX5 degree of protection
- High flexibility in the design-in process, thanks to pre-assembled device connectors and device connectors for assembly
Field connector
As coupling, 3-pos. and 5-pos. versions, with screw connection for cables with an outside diameter of 8 to 21 mm

Device connector
3-pos. and 5-pos. versions with potted litz wires or for user assembly
The VARIOCON connector system features compact connections for transmitting currents up to 70 A and voltages up to 1000 V in devices and terminal boxes. The basis of the program consists of modular contact inserts with screw and PCB connection, as well as fixed contact inserts with crimp connection for turned and punched contacts. Thanks to degree of protection IP68/IP69K, the connector system provides maximum reliability, even under extreme conditions.
Your advantages
• Modular contact insert structure
• Combination of power, signal, and fiber optics in one connector
• Housing designs made of plastic and metal
• Nickel-plated housing available for EMC applications
• Easy configuration via online configurator:
  Web code: #1711

The right material for every application
• Plastic
• Powder-coated zinc die-cast
• Nickel-plated zinc die-cast

Use in the widest range of applications, thanks to four sizes
• Two to five free module slots
• Various power and signal contacts available
• Angled cable outlet

UV-resistant plastic sleeves optimized for outdoor use, thanks to degree of protection IP65/IP66/IP67
• Can be sealed
• Straight cable outlet
Technical data and ordering information

The following tables contain selected components, with their key technical properties. Thanks to integrated web codes, you can find more information about the products listed in our web portal.

### DC connection technology for photovoltaic panels

#### PCB connection for photovoltaic applications

<table>
<thead>
<tr>
<th>Description</th>
<th>Push-lock PCB terminal block with spring connection for tin-plated circular conductors or conductors with ferrules</th>
<th>Push-lock terminal block with spring connection and welded bracket</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solder pin length</td>
<td>Order No.</td>
<td>Solder pin length</td>
</tr>
<tr>
<td>2.1 mm</td>
<td>1704836</td>
<td>2.1 mm</td>
</tr>
<tr>
<td>2.9 mm</td>
<td>1704837</td>
<td>2.9 mm</td>
</tr>
</tbody>
</table>

- **Version**: Closed / Open
- **Cross section**: Max. 6 mm²
- **Number of positions**: 1
- **Nominal current**: Max. 41 A

#### SUNCLIX DC connectors

For assembly with crimp connection

<table>
<thead>
<tr>
<th>Description</th>
<th>Housings for male (-) crimp connectors</th>
<th>Housings for female (+) crimp connectors</th>
<th>Contacts for crimp connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Pin (-)</td>
<td>Socket (+)</td>
<td>Pin contact</td>
</tr>
<tr>
<td>Order No.</td>
<td>1622662</td>
<td>1622661</td>
<td>1704927</td>
</tr>
<tr>
<td>Cross section</td>
<td>-</td>
<td>2.5/4 mm²</td>
<td>AWG 14/AWG 12</td>
</tr>
<tr>
<td>External cable diameter</td>
<td>5 mm ... 8 mm</td>
<td>5 mm ... 8 mm</td>
<td>-</td>
</tr>
<tr>
<td>Rated voltage</td>
<td>1500 V (1000 V UL)</td>
<td>1500 V (1000 V UL)</td>
<td>-</td>
</tr>
<tr>
<td>Nominal current</td>
<td>-</td>
<td>-</td>
<td>Max. 35 A</td>
</tr>
<tr>
<td>Degree of protection</td>
<td>IP68 (24 h/2 m)</td>
<td>IP68 (24 h/2 m)</td>
<td>-</td>
</tr>
<tr>
<td>Product information</td>
<td>Temperature range: -40°C ... +90°C, protection class II, approval in accordance with UL 61734 and IEC 62582.</td>
<td>Temperature range: -40°C ... +85°C, approval in accordance with DIN EN 62582.</td>
<td>Pcs./Pkt.: 1000 pcs./roll.</td>
</tr>
</tbody>
</table>
# DC connection technology for field cabling

## SUNCLIX DC connectors
For assembly with SUNCLIX spring connection

<table>
<thead>
<tr>
<th>Type</th>
<th>Pin (-)</th>
<th>Socket (+)</th>
<th>Pin (-)</th>
<th>Socket (+)</th>
<th>Pin (-)</th>
<th>Socket (+)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Order No.</td>
<td>1774687</td>
<td>1774674</td>
<td>1020775</td>
<td>1020776</td>
<td>1790797</td>
<td>1790784</td>
</tr>
<tr>
<td>Cross section</td>
<td>2.5 mm²</td>
<td>6 mm²</td>
<td>2.5 mm²</td>
<td>6 mm²</td>
<td>6 mm²</td>
<td>16 mm²</td>
</tr>
<tr>
<td>Rated voltage</td>
<td>1000 V</td>
<td></td>
<td>1500 V</td>
<td></td>
<td>1500 V</td>
<td></td>
</tr>
<tr>
<td>Nominal current</td>
<td>Max. 40 A</td>
<td></td>
<td>Max. 35 A (IEC)/50 A (UL)</td>
<td>Max. 65 A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Degree of protection</td>
<td>IP65/IP68 (24 h/2 m)</td>
<td>IP66/IP68 (24 h/2 m)</td>
<td>IP66/IP68 (24 h/2 m)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product information</td>
<td>Temperature range: -40°C ... +85°C, protection class II, approval in accordance with IEC 62582.</td>
<td>Temperature range: -40°C ... +85°C, protection class II, approval in accordance with UL 6703 and IEC 62582.</td>
<td>Temperature range: -40°C ... +85°C, protection class II, approval in accordance with IEC 62582.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## SUNCLIX

<table>
<thead>
<tr>
<th>Description</th>
<th>Fuse connectors</th>
<th>DC distributors (cable-based)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product information</td>
<td>Fuse connectors for securing panels and devices in photovoltaic systems.</td>
<td>Connection set with branch line (4 mm²) for fast parallel interconnection of photovoltaic modules. Length of each individual cable 120 mm, other lengths available upon request.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Nominal voltage</th>
<th>1000 V</th>
<th>1500 V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Order No.</td>
<td>1622788</td>
<td>1045547</td>
</tr>
<tr>
<td>l_nom</td>
<td>6</td>
<td>5</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Trunk line cross section</th>
<th>Version</th>
<th>Order No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 mm²</td>
<td>Pin to 2x socket (+/-+)</td>
<td>1030649</td>
</tr>
<tr>
<td>6 mm²</td>
<td>Socket to 2x pin (+/-)</td>
<td>1030650</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Order No.</th>
<th>1622153</th>
<th>1622154</th>
<th>1622155</th>
<th>1045552</th>
<th>1045551</th>
<th>1045550</th>
<th>1045549</th>
</tr>
</thead>
<tbody>
<tr>
<td>l_nom</td>
<td>8</td>
<td>10</td>
<td>12</td>
<td>14</td>
<td>19</td>
<td>23</td>
<td>25</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Order No.</th>
<th>1045546</th>
<th>1045545</th>
<th>1045544</th>
<th>1045543</th>
<th>1045542</th>
<th>1045541</th>
<th>1045540</th>
</tr>
</thead>
<tbody>
<tr>
<td>l_nom</td>
<td>7</td>
<td>9</td>
<td>11</td>
<td>13</td>
<td>15</td>
<td>17</td>
<td>19</td>
</tr>
</tbody>
</table>

| Order No.       | 1045550| 1045549|
|-----------------|--------|
| l_nom           | 21     |

| Order No.       | 1045548| 1045547|
|-----------------|--------|
| l_nom           | 23     |

<table>
<thead>
<tr>
<th>Degree of protection</th>
<th>IP68 (10 days / 1 m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ambient temperature (operation)</td>
<td>-40°C ... +85°C</td>
</tr>
<tr>
<td>Accessories</td>
<td>A spacer for improved heat dissipation is available as an option (see Accessories on page 22).</td>
</tr>
</tbody>
</table>

---

# SOLARCHECK RSD DC panel shutdown

## SOLARCHECK RSD

<table>
<thead>
<tr>
<th>Type</th>
<th>Shutdown unit</th>
<th>Startup unit, autonomous</th>
<th>Startup unit, externally supplied</th>
</tr>
</thead>
<tbody>
<tr>
<td>Order No.</td>
<td>SCK-RSD-100</td>
<td>SCK-RSD-400</td>
<td>SCK-RSD-600</td>
</tr>
<tr>
<td>Input voltage range</td>
<td>20 V DC ... 50 V DC</td>
<td>40 V DC ... 800 V DC</td>
<td>40 V DC ... 800 V DC</td>
</tr>
<tr>
<td>System voltage</td>
<td>≤ 1000 V DC</td>
<td>≤ 1000 V DC</td>
<td>≤ 1000 V DC</td>
</tr>
<tr>
<td>Maximum input current</td>
<td>10 A</td>
<td>10 A</td>
<td>10 A</td>
</tr>
</tbody>
</table>
## DC connection technology for device connection

### SUNCLIX DC device connectors

**Litz wire length 130 mm, other lengths available upon request**

<table>
<thead>
<tr>
<th>Type</th>
<th>Pin</th>
<th>Socket</th>
</tr>
</thead>
<tbody>
<tr>
<td>Order No.</td>
<td>1805148</td>
<td>1805135</td>
</tr>
<tr>
<td>Cross section</td>
<td>2.5 mm²</td>
<td>4 mm²</td>
</tr>
<tr>
<td>Rated voltage</td>
<td>1500 V</td>
<td>1500 V</td>
</tr>
<tr>
<td>Nominal current</td>
<td>Max. 27 A</td>
<td>Max. 35 A</td>
</tr>
<tr>
<td>Degree of protection</td>
<td>IP65/IP66/IP68 (24 h/2 m)</td>
<td>IP65/IP66/IP68 (24 h/2 m)</td>
</tr>
</tbody>
</table>

### SUNCLIX DC device connectors

**For user assembly**

<table>
<thead>
<tr>
<th>Description</th>
<th>Plastic housings</th>
<th>Contacts for crimp connection</th>
<th>Contacts for crimp connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Order No.</td>
<td>1704925 1704926</td>
<td>1628352 1628353</td>
<td>1704927 1704930 1704928 1704931</td>
</tr>
<tr>
<td>Cross section</td>
<td>1500 V</td>
<td>1500 V</td>
<td>Max. 35 A</td>
</tr>
<tr>
<td>Degree of protection</td>
<td>IP66/IP68 (24 h/2 m)</td>
<td>IP66/IP68 (24 h/2 m)</td>
<td>Temperature range: -40°C ... +85°C, approval in accordance with IEC 62582 and UL 6703, accessories required: 1775880.</td>
</tr>
</tbody>
</table>

### Accessories and tools

<table>
<thead>
<tr>
<th>Description</th>
<th>Crimping pliers</th>
<th>Mounting pliers</th>
<th>Test pin</th>
<th>SZF 1 screwdriver</th>
<th>Wirefox stripping tool</th>
</tr>
</thead>
<tbody>
<tr>
<td>Order No.</td>
<td>1212755</td>
<td>1200137</td>
<td>1705589</td>
<td>1204517</td>
<td>1212511</td>
</tr>
<tr>
<td>Properties</td>
<td>For PV-CF(M) contacts 2.5, 4, and 6 mm² (AWG 14/12/10).</td>
<td>For snapping the crimp contacts into the plastic housing. Suitable for conductor diameters of 4.2 ... 6.0 mm.</td>
<td>For SUNCLIX device plugs, for checking the correct positioning of contacts during user assembly.</td>
<td>Actuation tool, for unlocking the SUNCLIX connectors, as well as for opening the SUNCLIX spring connection, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component handle, with non-slip grip.</td>
<td>For standard 2.5, 4, and 6 mm² solar cables, with 15 mm longitudinal stop, for SUNCLIX field connectors.</td>
</tr>
</tbody>
</table>
### AC connection technology

#### PRC device connectors

<table>
<thead>
<tr>
<th>Description</th>
<th>Device plugs</th>
<th>Contact carriers</th>
<th>Contacts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Order No. 3-pos.</td>
<td>1409219</td>
<td>1409218 (with nut)</td>
<td>1409207</td>
</tr>
<tr>
<td>Order No. 5-pos.</td>
<td>1409211</td>
<td>1409206 (with nut)</td>
<td>1409208</td>
</tr>
<tr>
<td>Conductor cross section</td>
<td>2.5 mm²</td>
<td>6.0 mm²</td>
<td></td>
</tr>
<tr>
<td>Cable length</td>
<td>150 mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Screw connection</td>
<td>M25</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Connection method</td>
<td>Crimp connection</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### PRC field connectors

<table>
<thead>
<tr>
<th>Description</th>
<th>Field connectors</th>
<th>Test connectors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Order No. Coupling, 3-pos.</td>
<td>1410658</td>
<td>1410661</td>
</tr>
<tr>
<td>Order No. Coupling, 5-pos.</td>
<td>1410629</td>
<td>1410655</td>
</tr>
<tr>
<td>Order No. Male connector, 3-pos.</td>
<td>1014502</td>
<td>1014531</td>
</tr>
<tr>
<td>Order No. Connector, 5-pos.</td>
<td>1014522</td>
<td>1014506</td>
</tr>
<tr>
<td>External cable diameter</td>
<td>8.0 mm ... 12.0 mm</td>
<td>12.0 mm ... 16.0 mm</td>
</tr>
<tr>
<td>Conductor cross section</td>
<td>1.5 mm² ... 6.0 mm²</td>
<td>16.0 mm ... 21.0 mm</td>
</tr>
<tr>
<td>Connection method</td>
<td>Screw connection</td>
<td>Screw connection</td>
</tr>
<tr>
<td>Insertion cycles</td>
<td>Approx. 100</td>
<td>Approx. 2000</td>
</tr>
</tbody>
</table>

#### PRC accessories

<table>
<thead>
<tr>
<th>Description</th>
<th>Protective caps</th>
<th>Nut</th>
<th>Crimping tool</th>
</tr>
</thead>
<tbody>
<tr>
<td>Order No.</td>
<td>1409237 For connector side</td>
<td>1409236 For coupling side</td>
<td>1867419 For conductor cross sections from 2.5 mm² ... 4.0 mm²</td>
</tr>
</tbody>
</table>

### DC connection technology for building-integrated photovoltaics (BIPV)

#### SUNCLIX mini

<table>
<thead>
<tr>
<th>Description</th>
<th>Single-position module junction box</th>
<th>Contact without housing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Left</td>
<td>Right</td>
</tr>
<tr>
<td>Order No.</td>
<td>1705132</td>
<td>1705131</td>
</tr>
<tr>
<td>Cross section</td>
<td>2.5 mm²</td>
<td>2.5 mm²</td>
</tr>
<tr>
<td>Rated voltage</td>
<td>1000 V</td>
<td></td>
</tr>
<tr>
<td>Nominal current</td>
<td>15 A</td>
<td>15 A</td>
</tr>
<tr>
<td>Product information</td>
<td>The width of the module junction box can be adapted by the customer (width 18.3 mm ... 34.3 mm).</td>
<td>Ribbon width: &lt;5 mm, 0.05 ... 0.2 mm thick, temperature range: -40°C ... +85°C.</td>
</tr>
</tbody>
</table>
# AC connection technology for micro inverters

## SUNCLIX micon

<table>
<thead>
<tr>
<th>Description</th>
<th>AC-Y connectors for PV micro inverters</th>
<th>Mains connectors for the coupling side of the AC-Y distributor</th>
<th>Mains connectors for the connector side of the AC-Y distributor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Order No.</td>
<td>1706518</td>
<td>1706517</td>
<td>1706609</td>
</tr>
<tr>
<td>Cross section</td>
<td>Trunk 12 AWG</td>
<td>Trunk 12 AWG</td>
<td>Trunk 12 AWG</td>
</tr>
<tr>
<td></td>
<td>Drop 18 AWG</td>
<td>Drop 18 AWG</td>
<td>Drop 18 AWG</td>
</tr>
<tr>
<td>Cable length</td>
<td>Trunk 1150 mm</td>
<td>Trunk 1000 mm</td>
<td>Trunk 1000 mm</td>
</tr>
<tr>
<td></td>
<td>Drop 500 mm</td>
<td>Drop 500 mm</td>
<td>Drop 500 mm</td>
</tr>
<tr>
<td>Rated voltage</td>
<td>600 V</td>
<td>600 V</td>
<td>600 V</td>
</tr>
<tr>
<td>Nominal current</td>
<td>Trunk 20 A</td>
<td>Trunk 20 A</td>
<td>Trunk 20 A</td>
</tr>
<tr>
<td></td>
<td>Drop 5 A</td>
<td>Drop 5 A</td>
<td>Drop 5 A</td>
</tr>
<tr>
<td>Degree of protection</td>
<td>IP67</td>
<td>IP67</td>
<td>IP67</td>
</tr>
<tr>
<td>Product information</td>
<td>Version for the North American market. Approval in accordance with UL 6703.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Accessories

<table>
<thead>
<tr>
<th>Description</th>
<th>Dust protective caps for protecting the pin connector patterns during transport</th>
<th>IP protective caps for safe operation of the connection system</th>
<th>Unlocking tool for releasing the plug-in connections</th>
</tr>
</thead>
<tbody>
<tr>
<td>Order No.</td>
<td>For male connector 1706608</td>
<td>For male connector 1706610</td>
<td>For male connector 1706615</td>
</tr>
<tr>
<td></td>
<td>For coupling 1706599</td>
<td>For coupling 1706515</td>
<td>For coupling 1706515</td>
</tr>
<tr>
<td>Degree of protection</td>
<td>IP20</td>
<td>IP67</td>
<td>IP67</td>
</tr>
<tr>
<td>Properties</td>
<td>Biodegradable plastic, can be removed without an unlocking tool.</td>
<td>Can only be removed with an unlocking tool.</td>
<td>After releasing the connector, the tool does not fall off, instead it remains on the connector housing.</td>
</tr>
</tbody>
</table>
## Modular rectangular connectors for signals, data, and power

**Housing for connectors**
- **Sleeve housings**

<table>
<thead>
<tr>
<th>Description</th>
<th>Modular rectangular connectors in zinc die-cast</th>
<th>Modular rectangular connectors in plastic</th>
</tr>
</thead>
<tbody>
<tr>
<td>VC-MP-T...</td>
<td>VC-MEMV-T...</td>
<td>VC-K-T...</td>
</tr>
</tbody>
</table>

**Metric**
- VC-MP-T...
- VC-MEMV-T...
- VC-K-T...

**Metric + EMC**
- VC-MP-T...
- VC-MEMV-T...
- VC-K-T...

**Integrated Pg screw connection**
- VC-K-T...

**Ribbon cable outlet**
- VC-K-T...

### Size VC 1
- **Thread type**
  - M20
  - M20
  - M20
- **Cylinder head screw**
  - 1886676
  - 1886553
  - 1852935
- **Knurled screw**
  - 1886634
  - 1886553
  - 1853097
- **Module slots**
  - 2
  - 2
- **Degree of protection**
  - IP65/IP66/IP67
  - IP65/IP66/IP67

### Size VC 2
- **Thread type**
  - M25
  - M25
  - M25
  - PG29
- **Cylinder head screw**
  - 1886689
  - 1886366
  - 1852948
  - 1583880
  - 1607680
- **Knurled screw**
  - 1886647
  - 1886605
  - 1855107
- **Module slots**
  - 3
  - 3
- **Degree of protection**
  - IP65/IP66/IP67
  - IP65/IP66/IP67

### Size VC 3
- **Thread type**
  - M25
  - M25
  - M25
  - PG29
- **Cylinder head screw**
  - 1886692
  - 1886579
  - 1852961
  - 1424368
  - 1607677
- **Knurled screw**
  - 1886650
  - 1886618
  - 1855120
- **Module slots**
  - 4
  - 4
- **Degree of protection**
  - IP65/IP66/IP67
  - IP65/IP66/IP67

### Size VC 4
- **Thread type**
  - M25
  - M25
  - M25
- **Cylinder head screw**
  - 1886702
  - 1886582
  - 1852974
  - 1607693
- **Knurled screw**
  - 1886663
  - 1886621
  - 1855133
- **Module slots**
  - 5
  - 5
- **Degree of protection**
  - IP65/IP66/IP67
  - IP65/IP66/IP67

**Web code:** #0363
## Modular contact inserts – device side

<table>
<thead>
<tr>
<th>Type</th>
<th>Number of positions</th>
<th>Module slots</th>
<th>PCB connection</th>
<th>Screw connection</th>
<th>Crimp connection</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>180°</td>
<td>90°</td>
<td>90° with PE</td>
</tr>
<tr>
<td>FO</td>
<td>2</td>
<td>1</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1.5 mm²</td>
<td>6</td>
<td>1</td>
<td>1884872</td>
<td>1853531</td>
<td>-</td>
</tr>
<tr>
<td>1.5 mm²</td>
<td>8</td>
<td>1</td>
<td>1884885</td>
<td>1852833</td>
<td>-</td>
</tr>
<tr>
<td>4 mm²</td>
<td>2</td>
<td>1</td>
<td>1884979</td>
<td>1852859</td>
<td>-</td>
</tr>
<tr>
<td>16 mm²</td>
<td>4</td>
<td>3</td>
<td>-</td>
<td>1607509</td>
<td>1607516</td>
</tr>
<tr>
<td>16 mm²</td>
<td>5</td>
<td>4</td>
<td>-</td>
<td>1607523</td>
<td>1607530</td>
</tr>
<tr>
<td>16 mm²</td>
<td>7</td>
<td>5</td>
<td>-</td>
<td>1607537</td>
<td>1607544</td>
</tr>
</tbody>
</table>

### Crimp connection

<table>
<thead>
<tr>
<th>Description</th>
<th>4 mm²</th>
<th>10 mm²</th>
<th>16 mm²</th>
<th>Crimping tools</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single contacts</td>
<td>Taped products</td>
<td>Single contacts</td>
<td>Taped products</td>
<td>Taped products</td>
</tr>
<tr>
<td>Rated current</td>
<td></td>
<td>32 A</td>
<td>50 A</td>
<td>60 A</td>
</tr>
<tr>
<td>Type</td>
<td>IPCC 16-4-MT</td>
<td>IPCC 16-4-MT BAND</td>
<td>IPCC 16-10-MT</td>
<td>IPCC 16-10-MT BAND</td>
</tr>
<tr>
<td>Order No.</td>
<td>1733385</td>
<td>1761467</td>
<td>1733372</td>
<td>1761470</td>
</tr>
</tbody>
</table>
# Modular contact inserts – connector side

<table>
<thead>
<tr>
<th>Rated current</th>
<th>Rated voltage</th>
<th>Module slots</th>
<th>Order No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>--</td>
<td>--</td>
<td>1</td>
<td>1855814</td>
</tr>
<tr>
<td>10 A</td>
<td>250 V</td>
<td>1</td>
<td>1853476</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1583526*</td>
<td></td>
</tr>
<tr>
<td>10 A</td>
<td>160 V</td>
<td>1</td>
<td>1852820</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1583536*</td>
<td></td>
</tr>
<tr>
<td>20 A</td>
<td>400 V</td>
<td>1</td>
<td>1852846</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1583513*</td>
<td></td>
</tr>
<tr>
<td>70 A</td>
<td>690 V</td>
<td>3 (of which 1 is free) 5 (of which 2 are free)</td>
<td>1607467**</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1607488**</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1607495**</td>
</tr>
<tr>
<td>70 A</td>
<td>690 V</td>
<td>4 (of which 1 is free)</td>
<td>1607474**</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1607502**</td>
</tr>
<tr>
<td>70 A</td>
<td>690 V</td>
<td>5</td>
<td>1607481**</td>
</tr>
</tbody>
</table>

*) Contact insert with PE marking  
**) Products do not require separate panel mounting or sleeve frame
## Panel mounting frames – device side

<table>
<thead>
<tr>
<th>Size</th>
<th>Module slots</th>
<th>Standard Type</th>
<th>Order No.</th>
<th>Additional EMC shielding frames Type</th>
<th>Order No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>VC 1</td>
<td>2</td>
<td>VC-AR1/2M</td>
<td>1852972**</td>
<td>VC-AR1-EMV</td>
<td>1853214</td>
</tr>
<tr>
<td>VC 2</td>
<td>3</td>
<td>VC-AR2/3M</td>
<td>1852985**</td>
<td>VC-AR2-EMV</td>
<td>1853227</td>
</tr>
<tr>
<td>VC 3</td>
<td>4</td>
<td>VC-AR3/4M</td>
<td>1852998**</td>
<td>VC-AR3-EMV</td>
<td>1853230</td>
</tr>
<tr>
<td>VC 4</td>
<td>5</td>
<td>VC-AR4/5M</td>
<td>1853007**</td>
<td>VC-AR4-EMV</td>
<td>1853243</td>
</tr>
</tbody>
</table>

## Pin contact inserts incl. panel mounting frame and flange

<table>
<thead>
<tr>
<th>Size</th>
<th>Number of positions/ conductor cross section</th>
<th>Rated voltage</th>
<th>Rated current</th>
<th>Type</th>
<th>Order No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>VC 1</td>
<td>16 x 1.5 mm²</td>
<td>160 V</td>
<td>10 A</td>
<td>VC-AR1/2M-S88-SET</td>
<td>1607394</td>
</tr>
<tr>
<td></td>
<td>12 x 1.5 mm²</td>
<td>250 V</td>
<td>10 A</td>
<td>VC-AR1/2M-S66-SET</td>
<td>1607346</td>
</tr>
<tr>
<td></td>
<td>4 x 4 mm²</td>
<td>400 V</td>
<td>20 A</td>
<td>VC-AR1/2M-S22-SET</td>
<td>1607298</td>
</tr>
<tr>
<td>VC 2</td>
<td>24 x 1.5 mm²</td>
<td>160 V</td>
<td>10 A</td>
<td>VC-AR2/3M-S888-SET</td>
<td>1607407</td>
</tr>
<tr>
<td></td>
<td>18 x 1.5 mm²</td>
<td>250 V</td>
<td>10 A</td>
<td>VC-AR2/3M-S666-SET</td>
<td>1607359</td>
</tr>
<tr>
<td></td>
<td>6 x 4 mm²</td>
<td>400 V</td>
<td>20 A</td>
<td>VC-AR2/3M-S222-SET</td>
<td>1607311</td>
</tr>
<tr>
<td></td>
<td>4 x 16 mm²</td>
<td>690 V</td>
<td>70 A</td>
<td>VC-AMS 4</td>
<td>1607745</td>
</tr>
<tr>
<td>VC 3</td>
<td>32 x 1.5 mm²</td>
<td>160 V</td>
<td>10 A</td>
<td>VC-AR3/4M-S8888-SET</td>
<td>1607418</td>
</tr>
<tr>
<td></td>
<td>24 x 1.5 mm²</td>
<td>250 V</td>
<td>10 A</td>
<td>VC-AR3/4M-S6666-SET</td>
<td>1607370</td>
</tr>
<tr>
<td></td>
<td>8 x 4 mm²</td>
<td>400 V</td>
<td>20 A</td>
<td>VC-AR3/4M-S2222-SET</td>
<td>1607322</td>
</tr>
<tr>
<td></td>
<td>5 x 16 mm²</td>
<td>690 V</td>
<td>70 A</td>
<td>VC-AMS 5</td>
<td>1607748</td>
</tr>
<tr>
<td>VC 4</td>
<td>40 x 1.5 mm²</td>
<td>160 V</td>
<td>10 A</td>
<td>VC-AR4/5M-S88888-SET</td>
<td>1607431</td>
</tr>
<tr>
<td></td>
<td>30 x 1.5 mm²</td>
<td>250 V</td>
<td>10 A</td>
<td>VC-AR4/5M-S66666-SET</td>
<td>1607383</td>
</tr>
<tr>
<td></td>
<td>10 x 4 mm²</td>
<td>400 V</td>
<td>20 A</td>
<td>VC-AR4/5M-S22222-SET</td>
<td>1607335</td>
</tr>
<tr>
<td></td>
<td>7 x 16 mm²</td>
<td>690 V</td>
<td>70 A</td>
<td>VC-AMS 7</td>
<td>1607751</td>
</tr>
</tbody>
</table>
### Sleeve frames – connector side

<table>
<thead>
<tr>
<th>Size</th>
<th>Module slots</th>
<th>Type</th>
<th>Order No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>VC 1</td>
<td>2</td>
<td>VC-TR1/2M-PEA</td>
<td>1607059</td>
</tr>
<tr>
<td>VC 2</td>
<td>3</td>
<td>VC-TR2/3M-PEA</td>
<td>1607062</td>
</tr>
<tr>
<td>VC 3</td>
<td>4</td>
<td>VC-TR3/4M-PEA</td>
<td>1607075</td>
</tr>
<tr>
<td>VC 4</td>
<td>5</td>
<td>VC-TR4/5M-PEA</td>
<td>1607088</td>
</tr>
</tbody>
</table>

**Web code:** #0538

### Socket contact inserts incl. sleeve frames

<table>
<thead>
<tr>
<th>Size</th>
<th>Number of positions/conductor cross section</th>
<th>Rated voltage</th>
<th>Rated current</th>
<th>Type</th>
<th>Order No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>VC 1</td>
<td>16 x 1.5 mm²</td>
<td>160 V</td>
<td>10 A</td>
<td>VC-TR1/2M-PEA-S88-SET</td>
<td>1607239</td>
</tr>
<tr>
<td></td>
<td>12 x 1.5 mm²</td>
<td>250 V</td>
<td>10 A</td>
<td>VC-TR1/2M-PEA-S66-SET</td>
<td>1607191</td>
</tr>
<tr>
<td></td>
<td>4 x 4 mm²</td>
<td>400 V</td>
<td>20 A</td>
<td>VC-TR1/2M-PEA-S22-SET</td>
<td>1607143</td>
</tr>
<tr>
<td>VC 2</td>
<td>24 x 1.5 mm²</td>
<td>160 V</td>
<td>10 A</td>
<td>VC-TR2/3M-PEA-S888-SET</td>
<td>1607250</td>
</tr>
<tr>
<td></td>
<td>18 x 1.5 mm²</td>
<td>250 V</td>
<td>10 A</td>
<td>VC-TR2/3M-PEA-S666-SET</td>
<td>1607202</td>
</tr>
<tr>
<td></td>
<td>6 x 4 mm²</td>
<td>400 V</td>
<td>20 A</td>
<td>VC-TR2/3M-PEA-S222-SET</td>
<td>1607154</td>
</tr>
<tr>
<td></td>
<td>4 x 16 mm²</td>
<td>690 V</td>
<td>70 A</td>
<td>VC-TFS 4-PEA</td>
<td>1607467</td>
</tr>
<tr>
<td>VC 3</td>
<td>32 x 1.5 mm²</td>
<td>160 V</td>
<td>10 A</td>
<td>VC-TR3/4M-PEA-S8888-SET</td>
<td>1607263</td>
</tr>
<tr>
<td></td>
<td>24 x 1.5 mm²</td>
<td>250 V</td>
<td>10 A</td>
<td>VC-TR3/4M-PEA-S6666-SET</td>
<td>1607215</td>
</tr>
<tr>
<td></td>
<td>8 x 4 mm²</td>
<td>400 V</td>
<td>20 A</td>
<td>VC-TR3/4M-PEA-S2222-SET</td>
<td>1607167</td>
</tr>
<tr>
<td></td>
<td>5 x 16 mm²</td>
<td>690 V</td>
<td>70 A</td>
<td>VC-TFS 5-PEA</td>
<td>1607474</td>
</tr>
<tr>
<td>VC 4</td>
<td>40 x 1.5 mm²</td>
<td>160 V</td>
<td>10 A</td>
<td>VC-TR4/5M-PEA-S88888-SET</td>
<td>1607274</td>
</tr>
<tr>
<td></td>
<td>30 x 1.5 mm²</td>
<td>250 V</td>
<td>10 A</td>
<td>VC-TR4/5M-PEA-S66666-SET</td>
<td>1607226</td>
</tr>
<tr>
<td></td>
<td>10 x 4 mm²</td>
<td>400 V</td>
<td>20 A</td>
<td>VC-TR4/5M-PEA-S22222-SET</td>
<td>1607178</td>
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<td></td>
<td>7 x 16 mm²</td>
<td>690 V</td>
<td>70 A</td>
<td>VC-TFS 7-PEA</td>
<td>1607481</td>
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</table>

**Web code:** #0529
# COMBICON power

PCB terminal blocks and PCB connectors for power electronics up to 232 A

<table>
<thead>
<tr>
<th>Description</th>
<th>Push-in PCB terminal block up to 6 mm²</th>
<th>Push-in PCB terminal block up to 16 mm²</th>
<th>Push-in PCB terminal block up to 35 mm²</th>
<th>PCB terminal block with screw connection up to 95 mm²</th>
</tr>
</thead>
<tbody>
<tr>
<td>S-pos.</td>
<td>Order No. 1719341</td>
<td>1735817</td>
<td>1845373</td>
<td>1841898</td>
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<tr>
<td>Cross section</td>
<td>6 mm²</td>
<td>16 mm²</td>
<td>35 mm²</td>
<td>95 mm²</td>
</tr>
<tr>
<td>Pitch</td>
<td>7.5 mm</td>
<td>10 mm</td>
<td>15 mm</td>
<td>20 mm</td>
</tr>
<tr>
<td>Number of positions</td>
<td>1 ... 12</td>
<td>1 ... 9</td>
<td>1 ... 5</td>
<td>1 ... 5</td>
</tr>
<tr>
<td>IEC/UL rated voltage</td>
<td>1000 V/600 V</td>
<td>1000 V/600 V</td>
<td>1000 V/600 V</td>
<td>1000 V/600 V</td>
</tr>
<tr>
<td>IEC/UL nominal current</td>
<td>41 A/35 A</td>
<td>76 A/66 A</td>
<td>125 A/101 A</td>
<td>232 A/200 A</td>
</tr>
<tr>
<td>Comment</td>
<td>Suitable for the connection of aluminum sector cables.</td>
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# COMBICON control

PCB connectors for data and power transmission in MCR technology

<table>
<thead>
<tr>
<th>Description</th>
<th>Flat connector with Push-in spring connection up to 1.5 mm²</th>
<th>TWIN bus connector with Push-in spring connection up to 1.5 mm²</th>
<th>Flat connector with Push-in spring connection up to 2.5 mm²</th>
<th>Connector with screw connection up to 2.5 mm²</th>
</tr>
</thead>
<tbody>
<tr>
<td>S-pos.</td>
<td>Order No. 1952050</td>
<td>1713868</td>
<td>1732771</td>
<td>1812788</td>
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<tr>
<td>Cross section</td>
<td>1.5 mm²</td>
<td>1.5 mm²</td>
<td>2.5 mm²</td>
<td>2.5 mm²</td>
</tr>
<tr>
<td>Pitch</td>
<td>3.5 mm</td>
<td>5 mm</td>
<td>5 mm/5.08 mm</td>
<td>7.62 mm</td>
</tr>
<tr>
<td>Number of positions</td>
<td>2 ... 20</td>
<td>2 ... 20</td>
<td>2 ... 18</td>
<td>2 ... 12</td>
</tr>
<tr>
<td>IEC/UL rated voltage</td>
<td>160 V/150 V</td>
<td>320 V/250 V</td>
<td>320 V/250 V</td>
<td>1000 V/600 V</td>
</tr>
<tr>
<td>IEC/UL nominal current</td>
<td>8 A/8 A</td>
<td>10 A/8 A</td>
<td>12 A/10 A</td>
<td>16 A/18.5 A</td>
</tr>
</tbody>
</table>

# COMBICON control/compact

PCB terminal blocks and PCB connectors for signal transmission in MCR technology

<table>
<thead>
<tr>
<th>Description</th>
<th>PCB terminal block with Push-in spring connection with 45° angle up to 1.0 mm²</th>
<th>PCB terminal block with Push-in spring connection up to 2.5 mm²</th>
<th>PCB terminal block with double Push-in spring connection up to 2.5 mm²</th>
<th>PCB terminal block with Push-in spring connection for SMD application up to 0.5 mm²</th>
</tr>
</thead>
<tbody>
<tr>
<td>S-pos.</td>
<td>Order No. 1864312</td>
<td>1792892</td>
<td>1725341</td>
<td>1771059</td>
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<td>Cross section</td>
<td>1.0 mm²</td>
<td>1.5 mm²</td>
<td>2.5 mm²</td>
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</tr>
<tr>
<td>Pitch</td>
<td>3.5 mm</td>
<td>5 mm</td>
<td>5 mm</td>
<td>2.5 mm</td>
</tr>
<tr>
<td>Number of positions</td>
<td>2 ... 16</td>
<td>2 ... 12</td>
<td>2 ... 16</td>
<td>2 ... 8</td>
</tr>
<tr>
<td>IEC/UL rated voltage</td>
<td>160 V</td>
<td>400 V/300 V</td>
<td>400 V/300 V</td>
<td>160 V/150 V</td>
</tr>
<tr>
<td>IEC/UL nominal current</td>
<td>16 A</td>
<td>12 A/10 A</td>
<td>13.5 A/13.5 A</td>
<td>6 A/5 A</td>
</tr>
</tbody>
</table>

For more connectors, please visit phoenixcontact.com
### PLUSCON circular

Circular connectors for sensor/actuator applications

<table>
<thead>
<tr>
<th>Description</th>
<th>M8 flush-type connector with halogen-free litz wires, front mounting</th>
<th>M12 flush-type connector with halogen-free litz wires, front mounting</th>
<th>M8 flush-type connector for wave soldering processes, one-piece, rear mounting</th>
<th>M12 flush-type connector for wave soldering processes, one-piece, rear mounting</th>
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</thead>
<tbody>
<tr>
<td>Type</td>
<td>Order No.</td>
<td>Pin</td>
<td>Socket</td>
<td>Number of positions</td>
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<tr>
<td>M8</td>
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<td>5-pos.</td>
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<td>4/5</td>
</tr>
<tr>
<td>M12</td>
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<td>5-pos.</td>
<td></td>
<td>4/5</td>
</tr>
<tr>
<td>M8</td>
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<tr>
<td>M12</td>
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### PLUSCON circular

Circular connectors for sensor/actuator applications

<table>
<thead>
<tr>
<th>Description</th>
<th>M8 flush-type connector for reflow process, two-piece, rear mounting</th>
<th>M12 flush-type connector for reflow process, two-piece, rear mounting</th>
<th>M12 housing screw connection for reflow process, two-piece, rear mounting, standard</th>
<th>M12 flush-type connector for reflow process, two-piece, rear mounting</th>
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<tbody>
<tr>
<td>Type</td>
<td>Order No.</td>
<td>Pin</td>
<td>Socket</td>
<td>Number of positions</td>
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<td>5-pos. (housing)</td>
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<td>4/5</td>
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<td>M12</td>
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<td>5-pos.</td>
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<td>M12</td>
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### PLUSCON data

Connectors with standard interfaces such as RJ45, USB, and M12 for data transmission

<table>
<thead>
<tr>
<th>Description</th>
<th>RJ45 socket inserts and panel mounting frames, for Freenet system</th>
<th>RJ45 socket inserts and panel mounting frames, for PCB connection</th>
<th>USB socket inserts and panel mounting frames, for flat-ribbon cable connection</th>
<th>M12 flush-type connector for wave soldering processes, one-piece</th>
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</table>
In dialog with customers and partners worldwide

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