

# SACC-MCI-MSS-4CON/1,0 PE SCO - Contact carrier



1162569

<https://www.phoenixcontact.com/us/products/1162569>

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Assembled contact carrier and insulating body, S-coding, 3-pos. + PE, stranded wire length: 1 m



## Your advantages

- For compact devices: transmit high power in a confined space
- Convenient field assembly: device connectors for fast on-site mounting
- Customer-specific assemblies and litz wire lengths available
- Standard pin assignments for signal and power transmission with a uniform design-in design

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1162569                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 50 pc                          |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | AB27                           |
| Product key                          | ABQYAA                         |
| GTIN                                 | 4063151173203                  |
| Weight per piece (including packing) | 22.22 g                        |
| Weight per piece (excluding packing) | 22.22 g                        |
| Customs tariff number                | 85444290                       |
| Country of origin                    | DE                             |

## Technical data

### Notes

|                    |  |
|--------------------|--|
| <p>General</p>     | <p>The electrical and mechanical data specified assume that the connector pair is correctly locked and mounted. If the connector is unlocked and if there is a danger of contamination, the connector must be sealed using a protective cap &gt; IP54. Influences arising from litz wires, cables or PCB assembly must also be taken into consideration.</p>   |
| <p>Safety note</p> | <p>WARNING: The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper use may damage persons and/or property.</p> <ul style="list-style-type: none"> <li>• WARNING: Commission properly functioning products only. The products must be regularly inspected for damage. Decommission defective products immediately. Replace damaged products. Repairs are not possible.</li> <li>• WARNING: Only electrically qualified personnel may install and operate the product. They must observe the following safety notes. The qualified personnel must be familiar with the basics of electrical engineering. They must be able to recognize and prevent danger. The relevant symbol on the packaging indicates that only personnel familiar with electrical engineering are allowed to install and operate the product.</li> <li>• The products are suitable for applications in plant, controller, and electrical device engineering.</li> <li>• When operating the connectors in outdoor applications, they must be separately protected against environmental influences.</li> <li>• Assembled products may not be manipulated or improperly opened.</li> <li>• Only use mating connectors that are specified in the technical data of the standards listed (e.g. the ones listed in the product accessories online at <a href="https://www.phoenixcontact.com/products">phoenixcontact.com/products</a>).</li> <li>• When using the product in direct connection with third-party manufacturers, the user is responsible.</li> <li>• For operating voltages &gt; 50 V AC, conductive connector housings must be grounded</li> <li>• Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards.</li> <li>• Observe the corresponding technical data. You will find information:             <ul style="list-style-type: none"> <li>o On the product</li> <li>o On the packing label</li> <li>o In the supplied documentation</li> <li>o Online at <a href="https://www.phoenixcontact.com/products">phoenixcontact.com/products</a> under the product</li> </ul> </li> <li>• Only use tools recommended by Phoenix Contact</li> <li>• Use a protective cap to protect connectors that are not in use. The suitable accessories are available online in the accessory section of the product at <a href="https://www.phoenixcontact.com/products">phoenixcontact.com/products</a></li> <li>• Ensure that the protective or functional ground has been properly connected.</li> </ul> |

1162569

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- VDE 0100/1.97 § 411.1.3.2 and DIN EN 60 204/11.98 § 14.1.3 are applicable when combining several circuits in a cable and/or connector
- The connector warms up in normal operation. Depending on the ambient conditions, the surface of the connector can continue to warm up. In this case, the user is responsible for posting warnings (e.g. DIN EN ISO 13732-1:2008-12).

### Product properties

|                      |                |
|----------------------|----------------|
| Product type         | Contact insert |
| Sensor type          | Power          |
| Number of positions  | 4              |
| No. of cable outlets | 1              |
| Shielded             | no             |
| Coding               | S power        |

### Insulation characteristics

|                      |     |
|----------------------|-----|
| Overvoltage category | III |
| Degree of pollution  | 3   |

### Electrical properties

|  |          |
|--|----------|
| Rated voltage in acc. with IEC 61076-2-101 | 630 V    |
| Rated surge voltage                        | 6 kV     |
|  | 6 kV AC  |
| Contact resistance                         | ≤ 3 mΩ   |
| Insulation resistance                      | ≥ 100 MΩ |
| Nominal voltage $U_N$                      | 630 V    |
| Nominal current $I_N$                      | 12 A     |
| Test voltage                               | 6 kV     |

### Interfaces

|                      |       |
|----------------------|-------|
| Signal type/category | Power |
|----------------------|-------|

### Signaling

|                        |    |
|------------------------|----|
| Status display         | No |
| Status display present | No |

### Material specifications

|  |                    |
|--|--------------------|
| Flammability rating according to UL 94 | V0                 |
| Contact material                       | CuZn               |
| Contact surface material               | Au                 |
| Contact carrier material               | PA 6               |
| Conductor material                     | Bare Cu litz wires |

### Cable/line

|              |                              |
|--------------|------------------------------|
| Cable length | 1 m                          |
| Cable type   | UL/cUL stranded hook-up wire |

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|                                 |   |
|---------------------------------|---|
| Signal type/category            | Power   |
| Wire diameter incl. insulation  | 2.2 mm  |
| Single wire, color              | black numbered, black numbered, black numbered, green-yellow                                      |
| Conductor material              | Bare Cu litz wires  |
| AWG signal line                 | 16  |
| Material wire insulation        | mPPE  |
| Halogen-free                    | yes   |
| Flame resistance                | in acc. to UL 1581 VW1  |
| Ambient temperature (operation) | -40 °C ... 105 °C (cable, fixed installation)<br>-20 °C ... 105 °C (Cable, flexible installation) |

## Environmental and real-life conditions

### Ambient conditions

|                                 |   |
|---------------------------------|---|
| Degree of protection            | IP67<br>IP67  |
| Ambient temperature (operation) | -25 °C ... 85 °C (Plug / socket)<br>-20 °C ... 105 °C (Cable, flexible installation)<br>-40 °C ... 105 °C (cable, fixed installation) |

## Standards and regulations

|                  |                        |
|------------------|------------------------|
| Flame resistance | in acc. to UL 1581 VW1 |
|------------------|------------------------|

### M12

|                          |                 |
|--------------------------|-----------------|
| Standard designation     | M12 connector   |
| Standards/specifications | IEC 61076-2-111 |
| Note                     | In line with    |

## Mounting

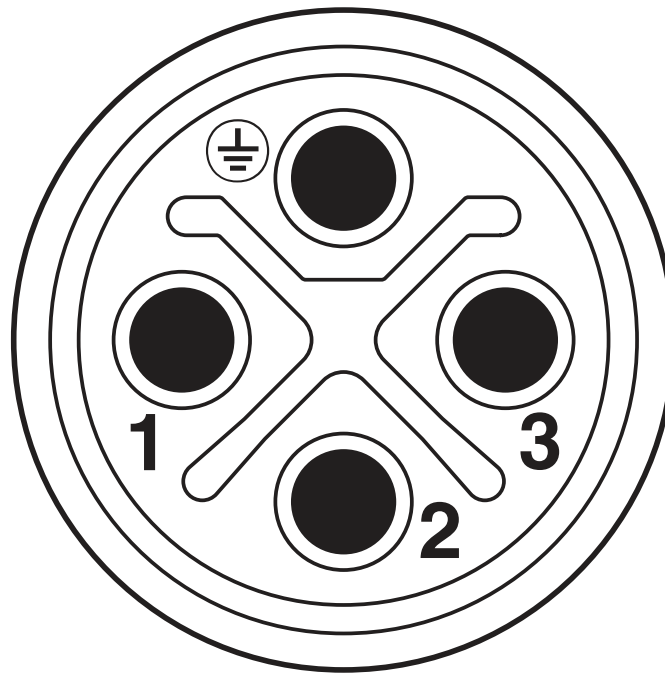
|                   |                  |
|-------------------|------------------|
| Mounting type     | Rear mounting    |
| Connection method | Individual wires |

1162569

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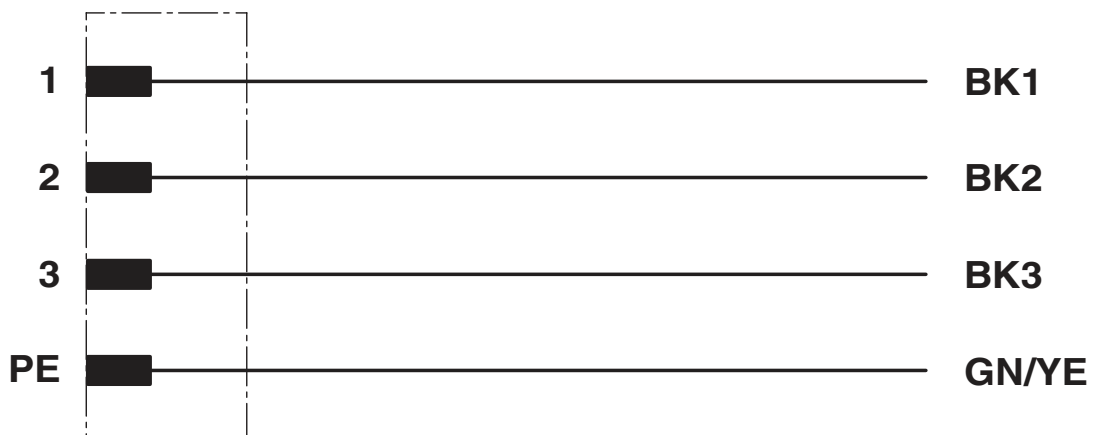
## Drawings

Schematic diagram



M12 plug pin assignment, 4-pos., S-coded, plug side view

Circuit diagram



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## Classifications

### ECLASS

ECLASS-11.0

27440102

### ETIM

ETIM 7.0

EC002635

### UNSPSC

UNSPSC 21.0

39121413

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## Environmental product compliance

|            |  |
|------------|--|
| China RoHS | Environmentally Friendly Use Period = 50 years<br>For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads" |
|------------|--|

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## Accessories

### SACC-MSQ-P-M12MS-25-2,7 SCO - Housing screw connection

1424131

<https://www.phoenixcontact.com/us/products/1424131>



Housing screw connection, Front mounting, square flange 25 mm side length,  
Square flange

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Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)