

# Flush-type connector - SACCBP-MS-4CON-M16/1,0-PUR SCO - 1419399

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Flush-type plug, shielded, 4-pos., M12, A-coded, rear/screw mounting with M16 thread, with 1 m cable, 4 x 0.34 mm<sup>2</sup>

### Why buy this product

- Pre-assembled with cables in various standard lengths for immediate use
- Customer-specific assemblies and cable lengths can be supplied
- Sealed on the cable side for optimum tightness of seal
- For high transmission safety: shield connection to the housing with optional EMC nut



### Key Commercial Data

|                                      |   |
|--------------------------------------|---|
| Packing unit                         | 1 STK   |
| GTIN                                 | <br>4 046356 533249 |
| Weight per Piece (excluding packing) | 71.4 g  |
| Custom tariff number                 | 85444290  |
| Country of origin                    | Germany   |

### Technical data

#### Dimensions

|                 |     |
|-----------------|-----|
| Length of cable | 1 m |
|-----------------|-----|

#### Ambient conditions

|                                 |   |
|---------------------------------|---|
| Ambient temperature (operation) | -25 °C ... 85 °C (Plug / socket)                |
|                                 | -40 °C ... 85 °C (without mechanical actuation) |
| Degree of protection            | IP67  |

#### General

|      |  |
|------|--|
| Note | The electrical and mechanical data specified assume that the connector pair is correctly locked and mounted. If the connector is unlocked and if |
|------|--|

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## Technical data

### General

|                             |   |
|-----------------------------|---|
|                             | there is a danger of contamination, the connector must be sealed using a protective cap > IP54. Influences arising from litz wires, cables or PCB assembly must also be taken into consideration. |
| Rated current at 40°C       | 4 A   |
| Rated voltage               | 250 V   |
| Rated surge voltage         | 2.5 kV  |
| Number of positions         | 4   |
| Insulation resistance       | ≥ 100 MΩ  |
| Coding                      | A - standard  |
| Standards/regulations       | M12 connector IEC 61076-2-101   |
| Status display              | No  |
| Overvoltage category        | II  |
| Degree of pollution         | 3   |
| Connection method           | Individual wires  |
| Insertion/withdrawal cycles | > 100   |
| Torque                      | 3 Nm ... 4 Nm (Installation-side)   |
| Mounting type               | Rear mounting M16 x 1.5 With flat nut   |

### Material

|  |                              |
|--|------------------------------|
| Flammability rating according to UL 94 | V0                           |
| Contact material                       | CuZn                         |
| Contact surface material               | Au                           |
| Contact carrier material               | PA 66                        |
| Material, knurls                       | Zinc die-cast, nickel-plated |
| Sealing material                       | NBR                          |

### Cable

|                                    |                              |
|------------------------------------|------------------------------|
| Cable type                         | PUR halogen-free black       |
| Cable abbreviation                 | Li9Y-V1-C-V1-11Y             |
| Conductor cross section            | 0.34 mm <sup>2</sup>         |
| AWG signal line                    | 22                           |
| Conductor structure signal line    | 7x 0.25 mm                   |
| Core diameter including insulation | 1.2 mm ±0.07 mm              |
| Thickness, insulation              | 0.21 mm                      |
| Wire colors                        | brown, white, blue, black    |
| Overall twist                      | 4 wires, twisted             |
| Shielding                          | Tinned copper braided shield |
| Optical shield covering            | 85 %                         |
| External sheath, color             | black-gray RAL 7021          |
| External cable diameter            | 5.90 mm                      |
| Cable weight                       | 47 kg/km                     |

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## Technical data

### Cable

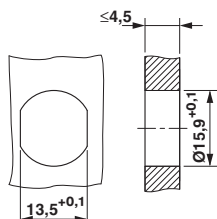
|                                 |   |
|---------------------------------|---|
| Outer sheath, material          | PUR   |
| Conductor material              | Bare Cu litz wires                              |
| Standards/specifications        | M12 connector IEC 61076-2-101                   |
| Insulation resistance           | $\geq 20 \text{ M}\Omega\cdot\text{km}$         |
| Conductor resistance            | $\leq 57.6 \text{ m}\Omega/\text{m}$            |
| Nominal voltage, cable          | 300 V   |
| Test voltage, cable             | 2000 V AC                                       |
| Ambient temperature (operation) | -40 °C ... 85 °C (cable, fixed installation)    |
|                                 | -25 °C ... 85 °C (cable, flexible installation) |

### Standards and Regulations

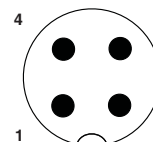
|  |                 |
|--|-----------------|
| Standard designation                   | M12 connector   |
| Standards/regulations                  | IEC 61076-2-101 |
| Flammability rating according to UL 94 | V0              |

## Drawings

Dimensional drawing



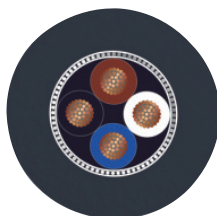
Schematic diagram



Pin assignment of M12 male connector, 4-pos., A-coded, view of connector side

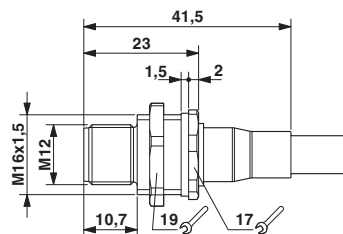
Housing cutout for M16 fastening thread, mounting panel with feed-through hole (alternatively with surface as protection against rotation)

Cable cross section



PUR halogen-free black [PUR]

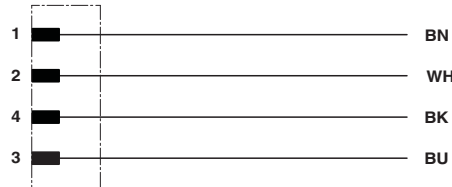
Dimensional drawing



M12 flush-type connector

# Flush-type connector - SACCBP-MS-4CON-M16/1,0-PUR SCO - 1419399

Circuit diagram



Contact assignment of the M12 plugs

## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27140815 |
| eCl@ss 4.1 | 27140815 |
| eCl@ss 5.0 | 27143423 |
| eCl@ss 5.1 | 27143423 |
| eCl@ss 6.0 | 27279220 |
| eCl@ss 7.0 | 27440103 |
| eCl@ss 8.0 | 27440103 |
| eCl@ss 9.0 | 27440102 |

### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC001297 |
| ETIM 3.0 | EC002061 |
| ETIM 4.0 | EC002061 |
| ETIM 5.0 | EC002061 |

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 31251501 |
| UNSPSC 7.0901 | 31251501 |
| UNSPSC 11     | 31251501 |
| UNSPSC 12.01  | 31251501 |
| UNSPSC 13.2   | 39121413 |

## Approvals

Approvals

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Approvals

EAC / EAC

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## Approvals

Ex Approvals

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Approvals submitted

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## Approval details

EAC

EAC

## Accessories

Accessories

Plug for cable screw gland

Screw plug - SACC-M16-SEALING PLUG SET - 1453368



M16 screw plug for unused M12 housing cutouts

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## Protective cap

Sealing cap - PROT-M12 FS - 1560251



M12 sealing cap for unoccupied M12 plugs of the sensor/actuator cable, flush-type plugs and I/O devices in the field

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Sealing cap - PROT-M12 FS-M - 1430488



M12 metal sealing cap for unoccupied M12 plugs of the sensor/actuator cable, flush-type plugs and I/O devices in the field

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## Seal

## Flush-type connector - SACCBP-MS-4CON-M16/1,0-PUR SCO - 1419399

### Accessories

Flat gasket - SACC-M16-SEAL CLM - 1430394



M16 flat gasket, for rear mounting of M12 flush-type connectors with M16 fastening thread

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