

# 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>

## Your advantages

- 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 pc  |
| GTIN         | <br>4 046356 533249 |
| GTIN         | 4046356533249   |

## 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 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  |

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## Technical data

### General

|                             |                                       |
|-----------------------------|---------------------------------------|
| 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 6.6                       |
| 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                      |
| Outer sheath, material             | PUR                           |
| Conductor material                 | Bare Cu litz wires            |
| Standards/specifications           | M12 connector IEC 61076-2-101 |

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## Technical data

### Cable

|                                 |   |
|---------------------------------|---|
| Insulation resistance           | ≥ 20 MΩ*km                                      |
| Conductor resistance            | ≤ 57.6 mΩ/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

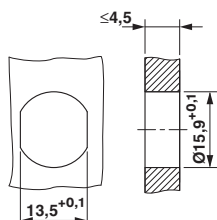
|  |                 |
|--|-----------------|
| Standard designation                   | M12 connector   |
| Standards/regulations                  | IEC 61076-2-101 |
| Flammability rating according to UL 94 | V0              |

### Environmental Product Compliance

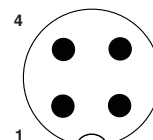
|            |   |
|------------|---|
|            | Lead 7439-92-1  |
| China RoHS | Environmentally Friendly Use Period = 50  |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

## Drawings

Dimensional drawing



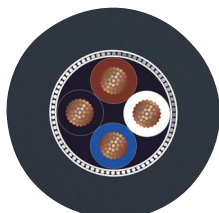
Schematic diagram



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

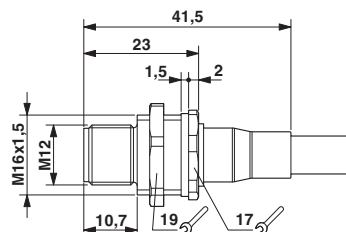
Housing cutout for M16 fastening thread, mounting panel with feed-through hole (alternatively with surface as protection against rotation)

Cable cross section



PUR halogen-free black [PUR]

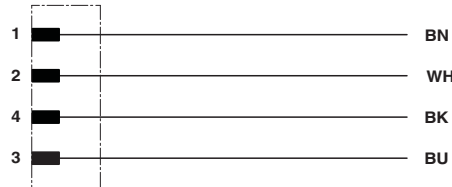
Dimensional drawing



M12 flush-type connector

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Circuit diagram



Contact assignment of the M12 plugs

## Approvals

Approvals

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Approvals

EAC

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Ex Approvals

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## Approval details

|     |  |         |
|-----|--|---------|
| EAC |  | B.00767 |
|-----|--|---------|

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