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## Flush-type connector - SACCBP-FS-8CON-M16/1,0-PUR SCO - 1419357

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Flush-type socket, shielded, 8-pos., M12, A-coded, rear/screw mounting with M16 thread, with 1 m cable, 8 x 0.25 mm<sup>2</sup>



### Key Commercial Data

|              |   |
|--------------|---|
| Packing unit | 1 STK   |
| GTIN         | <br>4 046356 533331 |

### Technical data

#### Dimensions

|  |       |
|--|-------|
| Length of cable                            | 1 m   |
| Stripping length of the free conductor end | 50 mm |

#### Ambient conditions

|                                 |                                  |
|---------------------------------|----------------------------------|
| Ambient temperature (operation) | -25 °C ... 85 °C (Plug / socket) |
| 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 | 2 A  |
| Rated voltage         | 30 V   |
| Rated surge voltage   | 0.8 kV   |
| Number of positions   | 8  |
| Insulation resistance | ≥ 100 MΩ   |
| Coding                | A - standard   |
| Standards/regulations | M12 connector IEC 61076-2-101  |
| Status display        | No   |

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## Technical data

### General

|                             |                                       |
|-----------------------------|---------------------------------------|
| 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                       | FKM                          |

### Cable

|   |  |
|---|--|
| Cable type                                    | PUR halogen-free black                             |
| Cable abbreviation                            | Li9Y-V1-C-V1-11Y                                   |
| Conductor cross section                       | 0.25 mm²   |
| AWG signal line                               | 24   |
| Conductor structure signal line               | 14x 0.15 mm  |
| Core diameter including insulation            | 1.15 mm ±0.07 mm                                   |
| Thickness, insulation                         | ≥ 0.21 mm  |
|   | 0.6 mm (Outer cable sheath)                        |
| Wire colors                                   | Brown, white, green, yellow, gray, pink, blue, red |
| Overall twist                                 | 8 wires around filler to the core                  |
| Shielding                                     | Braided copper wires                               |
| Optical shield covering                       | 85 %   |
| External sheath, color                        | black-gray RAL 7021                                |
| External cable diameter                       | 5.90 mm  |
| Smallest bending radius, fixed installation   | 59 mm  |
| Smallest bending radius, movable installation | 59 mm  |
| Number of bending cycles                      | 4000000  |
| Bending radius                                | 59 mm  |
| Traversing path                               | 10 m   |
| Traversing rate                               | 3 m/s  |
| Acceleration                                  | 10 m/s²  |
| Cable weight                                  | 54 kg/km   |
| Outer sheath, material                        | PUR  |
| Material, filler                              | PE   |
| Material conductor insulation                 | PP   |
| Conductor material                            | Bare Cu litz wires                                 |

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## Technical data

### Cable

|                                 |   |
|---------------------------------|---|
| Insulation resistance           | $\geq 100 \text{ G}\Omega\cdot\text{km}$  |
| Conductor resistance            | max. $78 \text{ }\Omega/\text{km}$  |
| Nominal voltage, cable          | $\leq 300 \text{ V}$  |
| Test voltage, cable             | $\geq 3000 \text{ V}$   |
| Ambient temperature (operation) | $-40 \text{ }^{\circ}\text{C} \dots 85 \text{ }^{\circ}\text{C}$ (cable, fixed installation)    |
|                                 | $-25 \text{ }^{\circ}\text{C} \dots 85 \text{ }^{\circ}\text{C}$ (cable, flexible installation) |

### Standards and Regulations

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

## 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 |

### 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

Approvals

EAC

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## Approvals

Ex Approvals

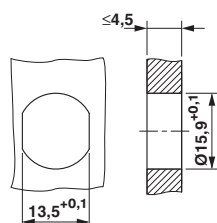
Approvals submitted

## Approval details

EAC

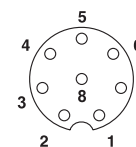
## Drawings

Dimensional drawing



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

Schematic diagram



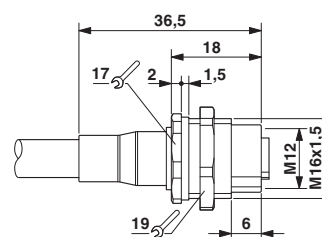
Pin assignment M12 socket, 8-pos., A-coded, view female side

Cable cross section



PUR halogen-free black [PUR]

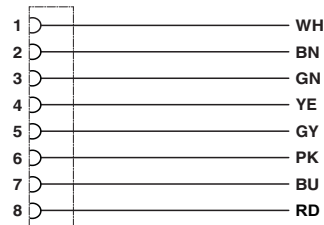
Dimensional drawing



M12 flush-type connector

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Circuit diagram



Contact assignment of the M12 socket

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