

# Flush-type connector - SACC-E-M12MS-8CON-PG9/0,5 - 1513774


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Sensor/Actuator flush-type plug, 8-pos., M12, A-coded, front/screw mounting with Pg9 thread, with 0.5 m TPE litz wire, 8x 0.25 mm<sup>2</sup>



## Key commercial data

|                                      |  |
|--------------------------------------|--|
| Packing unit                         | 1 pc   |
| GTIN                                 | <br>4 017918 914684 |
| Weight per Piece (excluding packing) | 23.3 g   |
| Custom tariff number                 | 85444290   |
| Country of origin                    | Germany  |

## Technical data

### Dimensions

|                 |       |
|-----------------|-------|
| Length of cable | 0.5 m |
|-----------------|-------|

### 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   |
| Number of positions   | 8  |
| Contact resistance    | ≤ 3 mΩ   |
| Insulation resistance | ≥ 100 MΩ   |
| Coding                | A - standard   |
| Standards/regulations | M12 connector IEC 61076-2-101  |

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## Technical data

### General

|                             |                                   |
|-----------------------------|-----------------------------------|
| Status display              | No                                |
| Surge voltage category      | II                                |
| Pollution degree            | 3                                 |
| Connection method           | Individual wires                  |
| Insertion/withdrawal cycles | ≥ 100                             |
| Torque                      | 3 Nm ... 4 Nm (Installation-side) |
| Mounting type               | Front mounting Pg9                |

### Material

|   |                              |
|---|------------------------------|
| Inflammability class according to UL 94 | V0                           |
| Contact material                        | CuZn                         |
| Contact surface material                | Ni/Au                        |
| Contact carrier material                | PA66                         |
| Material, knurls                        | Zinc die-cast, nickel-plated |
| Sealing material                        | NBR                          |

### Cable

|                                    |  |
|------------------------------------|--|
| Cable type                         | TPE litz wire                                      |
| Conductor cross section            | 0.25 mm <sup>2</sup>                               |
| 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  |
| Wire colors                        | white, brown, green, yellow, gray, pink, blue, red |
| Material conductor insulation      | TPE  |
| Conductor material                 | Tin-plated Cu litz wires                           |
| Insulation resistance              | ≥ 20 MΩ*km   |
| Conductor resistance               | ≤ 80 mΩ/m  |
| Nominal voltage, cable             | 300 V  |
| Test voltage, cable                | 2000 V AC  |
| Ambient temperature (operation)    | -40 °C ... 90 °C (cable, fixed installation)       |
|                                    | -40 °C ... 85 °C (cable, fixed installation)       |
|                                    | -25 °C ... 85 °C (cable, flexible installation)    |

## 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 | 27143423 |

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## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 7.0 | 27449001 |
| eCl@ss 8.0 | 27449001 |

### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC001297 |
| ETIM 3.0 | EC002061 |
| ETIM 4.0 | EC002062 |
| ETIM 5.0 | EC002061 |

### UNSPSC

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

## Approvals

### Approvals

#### Approvals

UL Recognized / GOST / GOST

#### Ex Approvals

#### Approvals submitted

## Approval details

|                                |       |
|--------------------------------|-------|
| UL Recognized                  |       |
| mm <sup>2</sup> /AWG/kcmil     | 26-20 |
| Nominal current I <sub>N</sub> | 2 A   |
| Nominal voltage U <sub>N</sub> | 30 V  |

|      |  |
|------|--|
| GOST |  |
|------|--|

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### Approvals



### Accessories

#### Accessories

##### Flat nut

Flat nut - SACC-E-MU-PG9 - 1504084



Flat nut with Pg9 thread

##### 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

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

##### Seal

Flat gasket - SACC-PG9-SEAL CLM - 1556320

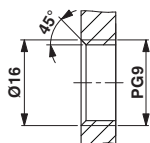


Pg9 flat gasket for the rear mounting of M12 flush-type connectors with Pg9 fastening threads

### Drawings

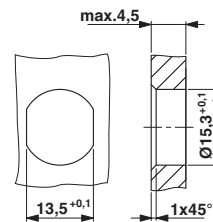
# Flush-type connector - SACC-E-M12MS-8CON-PG9/0,5 - 1513774

Dimensioned drawing



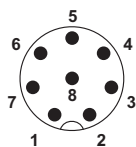
Housing cutout for Pg9 fastening thread, mounting panel with thread

Dimensioned drawing



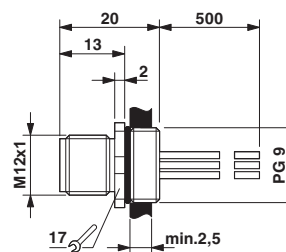
Housing cutout for Pg9 fastening thread, mounting panel with feed-through hole (alternatively with surface as protection against rotation)

Schematic diagram



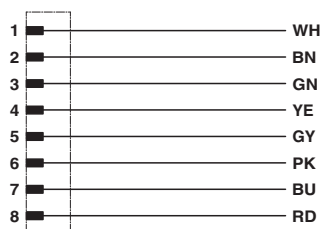
Pin assignment M12 plug, 8-pos., view plug side

Dimensioned drawing



M12 flush-type plug

Circuit diagram



Contact assignment of the M12 plug and the M12 socket