

# Flush-type connector - SACC-SQ-M12MS-4CON-25F/0,5 - 1419991

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Sensor/Actuator flush-type plug, 4-pos., M12, A-coded, front/square flange mounting, with 0.5 m TPE litz wire, 4 x 0.34 mm<sup>2</sup>

## Why buy this product

- 4 x fixing hole, 2.7 mm
- With form seal for M2.5 screws



## Key commercial data

|                                      |   |
|--------------------------------------|---|
| Packing unit                         | 1 pc  |
| GTIN                                 | <br>4 046356 533812 |
| Weight per Piece (excluding packing) | 23.1 g  |
| Custom tariff number                 | 85444290  |
| Country of origin                    | Germany   |
| Product key                          | ABQCDC  |

## Technical data

### Dimensions

|                 |       |
|-----------------|-------|
| Length of cable | 0.5 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                             |
| Number of positions         | 4                                 |
| Contact resistance          | ≤ 3 mΩ                            |
| Insulation resistance       | ≥ 100 MΩ                          |
| Coding                      | A - standard                      |
| Standards/regulations       | M12 connector IEC 61076-2-101     |
| 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 Square flange      |

### Material

|   |                              |
|---|------------------------------|
| Inflammability class according to UL 94 | V0                           |
| Contact material                        | CuZn                         |
| Contact surface material                | Ni/Au                        |
| Contact carrier material                | PA 66                        |
| Material of grip body                   | Zinc die-cast, nickel-plated |
| Material, knurls                        | Zinc die-cast, nickel-plated |
| Sealing material                        | FKM                          |

### Cable

|                                    |   |
|------------------------------------|---|
| Cable type                         | TPE litz wire                                   |
| 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 (Core insulation)                       |
| Wire colors                        | brown, white, blue, black                       |
| Material conductor insulation      | TPE   |
| Conductor material                 | Tin-plated Cu litz wires                        |
| 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) |

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## 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

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#### Approvals

EAC / cULus Recognized / UL Recognized

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#### Ex Approvals

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#### Approvals submitted

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### Approval details

|     |
|-----|
| EAC |
|-----|

|                            |    |
|----------------------------|----|
| cULus Recognized           |    |
| mm <sup>2</sup> /AWG/kcmil | 20 |

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## Approvals

|                                |       |
|--------------------------------|-------|
| Nominal current I <sub>N</sub> | 4 A   |
| Nominal voltage U <sub>N</sub> | 250 V |

|                                |       |
|--------------------------------|-------|
| UL Recognized                  |       |
| mm <sup>2</sup> /AWG/kcmil     | 26-20 |
| Nominal current I <sub>N</sub> | 4 A   |
| Nominal voltage U <sub>N</sub> | 250 V |

## Accessories

### Accessories

#### 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

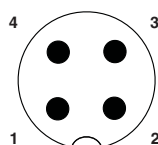
Sealing cap - PROT-M12 FS-M - 1430488



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

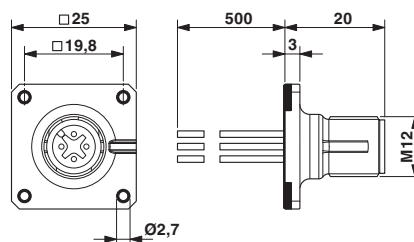
## Drawings

Schematic diagram



Pin assignment M12 plug, 4-pos., A-coded, view plug side

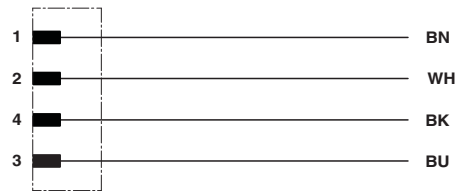
Dimensioned drawing



M12 flush-type plug

## Flush-type connector - SACC-SQ-M12MS-4CON-25F/0,5 - 1419991

Circuit diagram



Contact assignment of the M12 plug and the M12 socket

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