# Flush-type connector - SACC-EC-MS-8CON-M16/0,5 SCO

**PHŒNIX CONTACT**

1523502

https://www.phoenixcontact.com/us/products/1523502

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Sensor/Actuator flush-type plug, 8-pos., M12-SPEEDCON, A-coded, front/screw mounting with M16 thread, can be positioned, with 0.5 m TPE litz wire, 8 x 0.25 mm$^2$

## Your advantages

- Pre-assembled with litz wires for immediate use
- Customer-specific assemblies and litz wire lengths available
- Sealed on the litz wire side for optimum leak-tightness
- All standard pin assignments and codings for signal, data, and power transmission with a uniform design-in design
- For high transmission safety: shield connection to the housing with optional EMC nut
- SPEEDCON fast locking system reduces cabling times

## Commercial Data

| | |
|---|---|
| Item number | 1523502 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales Key | A11 |
| Product Key | ABQCDA |
| Catalog Page | Page 38 (C-2-2019) |
| GTIN | 4046356021333 |
| Weight per Piece (including packing) | 29.1 g |
| Weight per Piece (excluding packing) | 29.1 g |
| Customs tariff number | 85444290 |
| Country of origin | DE |

## Technical Data

### Notes

| | |
|---|---|
| Notes on operation | 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. |

### Product properties

| | |
|---|---|
| Product type | Circular connectors (device side) |
| Number of positions | 8 |
| No. of cable outlets | 1 |
| Shielded | no |
| Coding | A - standard |

#### Insulation characteristics

| | |
|---|---|
| Overvoltage category | II |
| Degree of pollution | 3 |

### Ambient conditions

| | |
|---|---|
| Degree of protection | IP67 |
| Degree of protection | IP67 |
| Ambient temperature (operation) | -25 °C ... 85 °C (Plug / socket) |
| | -40 °C ... 85 °C (without mechanical actuation) |
| | -25 °C ... 85 °C (Cable, flexible installation) |
| | -40 °C ... 85 °C (cable, fixed installation) |

### Connector

| | |
|---|---|
| Insertion/withdrawal cycles | > 100 |

#### Header 1

| | |
|---|---|
| Head design | Plug |
| Head cable outlet | straight |
| Head thread type | M12 |
| Head locking type | SPEEDCON |
| Coding | A-coded |

### Electrical properties

| | |
|---|---|
| Rated surge voltage | 0.8 kV |
| Contact resistance | ≤ 3 mΩ |
| Insulation resistance | ≥ 100 MΩ |
| Nominal voltage $U_N$ | 30 V |
| Nominal current $I_N$ | 2 A |

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## Material specifications

| | |
|---|---|
| Flammability rating according to UL 94 | V0 |
| Sealing material | NBR |
| Material of grip body | Zinc die-cast, nickel-plated |
| Contact material | CuZn |
| Contact surface material | Ni/Au |
| Contact carrier material | PA 6.6 |
| Cable gland material | Zinc die-cast, nickel-plated |

## Connection data

### Conductor connection

| | |
|---|---|
| Connection method | Individual wires |

## Mounting

| | |
|---|---|
| Mounting type | Front mounting M16 x 1.5 With locking nut |
| Assembly instructions | With locking nut |

## Standards and regulations

| | |
|---|---|
| Standards/specifications | IEC 61076-2-101 |

## Cable / line

| | |
|---|---|
| Cable length | 0.5 m |

### Cable structure

| | |
|---|---|
| Cable type | TPE litz wire |
| Conductor material | Tin-plated Cu litz wires |
| Conductor structure signal line | 14x 0.15 mm |
| AWG signal line | 24 |
| Material wire insulation | TPE |
| Thickness, insulation | 0.21 mm (Core insulation) |
| Wire diameter incl. insulation | 1.15 mm ±0.07 mm |
| Single wire, color | Brown, blue, white, gray, pink, green, yellow, red |

### Electrical properties

| | |
|---|---|
| Nominal voltage, cable | 300 V |
| Test voltage, cable | 2000 V AC |
| Conductor resistance | ≤ 80 mΩ/m |
| Cable insulation resistance | ≥ 20 MΩ*km |

### Ambient conditions

| | |
|---|---|
| Ambient temperature (operation) | -25 °C ... 85 °C (Cable, flexible installation) |
| | -40 °C ... 85 °C (cable, fixed installation) |

## Drawings

### Circuit diagram

| | |
|---|---|
| **1** | **WH** |
| **2** | **BN** |
| **3** | **GN** |
| **4** | **YE** |
| **5** | **GY** |
| **6** | **PK** |
| **7** | **BU** |
| **8** | **RD** |

Contact assignment of the M12 plug

### Dimensional drawing

$\varnothing 17^{+0,1}$  45°  M16x1,5
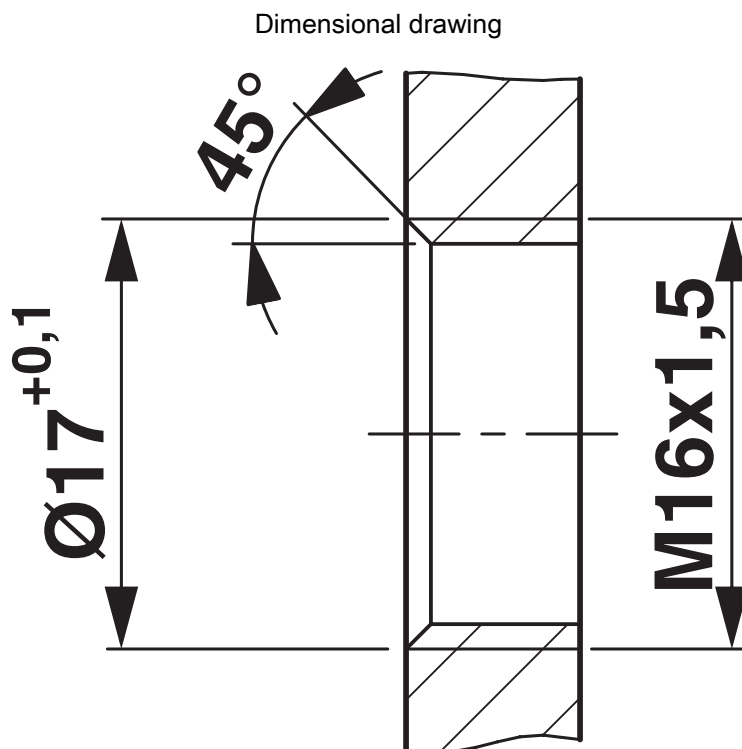
Housing cutout for M16 fastening thread, mounting panel with thread

# Flush-type connector - SACC-EC-MS-8CON-M16/0,5 SCO

Dimensional drawing

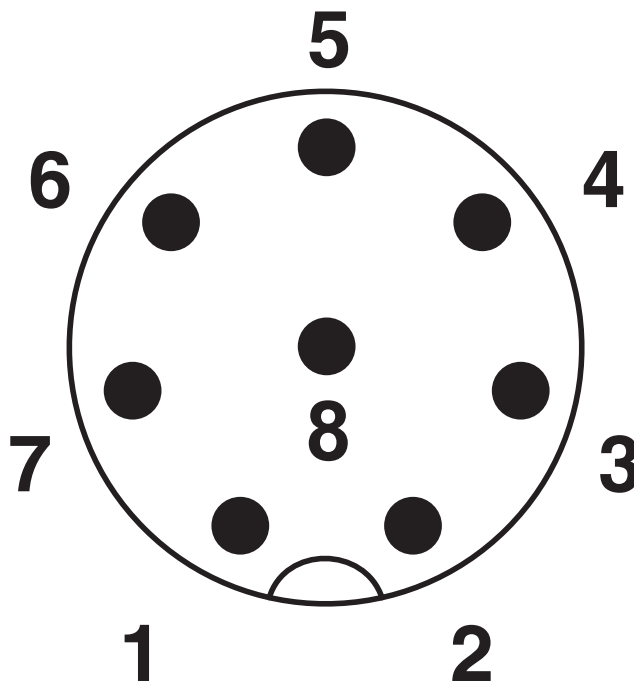500    26
≥2,5    13
2
M16x1,5    M12x1
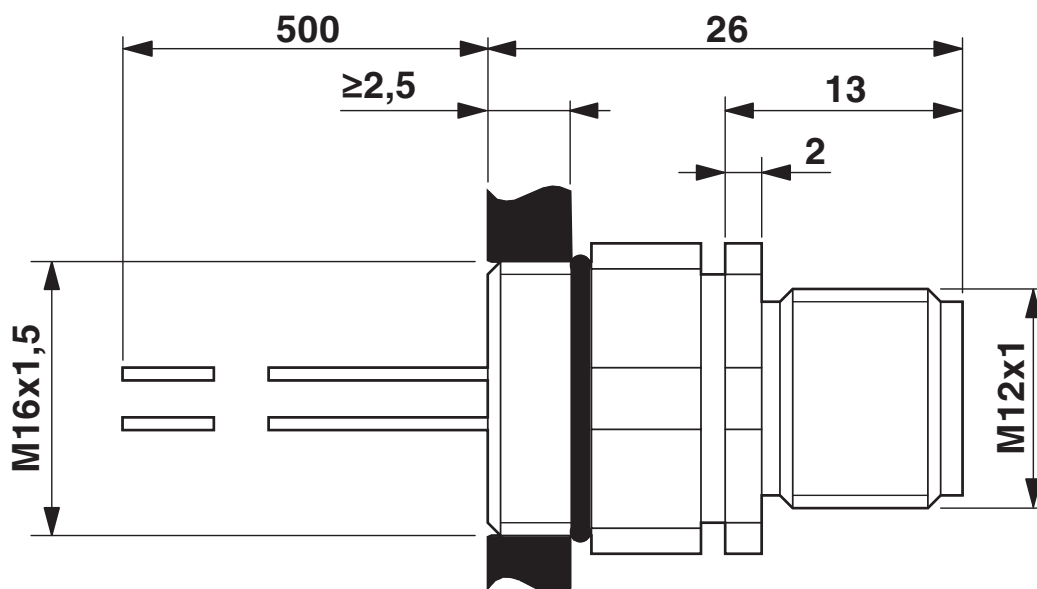
M12 flush-type plug, can be positioned

Schematic diagram

5
6    4
8
7    3
1    2

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

## Approvals

### UL Recognized
Approval ID: FILE E 118976

| | Nominal Voltage $U_N$ | Nominal Current $I_N$ | Cross Section AWG | Cross Section $mm^2$ |
|---|---|---|---|---|
| | 30 V | 2 A | - 24 | - |

### EAC
Approval ID: B.01687

### cULus Recognized
Approval ID: E221474-20140616

| | Nominal Voltage $U_N$ | Nominal Current $I_N$ | Cross Section AWG | Cross Section $mm^2$ |
|---|---|---|---|---|
| | 30 V | 2 A | 24 - 22 | - |

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-9.0 | 27440102 |
| ECLASS-10.0.1 | 27440102 |
| ECLASS-11.0 | 27440102 |

### ETIM

| | |
|---|---|
| ETIM 8.0 | EC002635 |

### UNSPSC

| | |
|---|---|
| UNSPSC 21.0 | 39121400 |

## Environmental Product Compliance

| | |
|---|---|
| REACh SVHC | Lead 7439-92-1 |

| | |
|---|---|
| China RoHS | Environmentally Friendly Use Period = 50 years |
| | For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads" |

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## Accessories

### Flat gasket

Flat gasket - SACC-M16-SEAL CLM - 1430394

https://www.phoenixcontact.com/us/products/1430394

M16 flat gasket for M12 flush-type connectors with M16 fastening thread

### Sealing cap

Sealing cap - PROT-M12 FS - 1560251

https://www.phoenixcontact.com/us/products/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

Sealing cap - PROT-M12 FS-M - 1430488

https://www.phoenixcontact.com/us/products/1430488

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