

## Flush-type connector - SACC-E-M12MS-8CON-M16/0,5 P - 1436424

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



Sensor/Actuator flush-type connector, male, 8-pos., M12, A-coded, front/screw mounting with M16 thread, with 0.5 m TPE litz wire, 8 x 0.25 mm<sup>2</sup>

### Your advantages

- ✓ Pre-assembled with litz wires for immediate use
- ✓ Customer-specific assemblies and litz wire lengths available
- ✓ For high transmission safety: shield connection to the housing with optional EMC nut

RoHS

### Key Commercial Data

|              |                                                                                                         |
|--------------|---------------------------------------------------------------------------------------------------------|
| Packing unit | 1 pc                                                                                                    |
| GTIN         | <br>4 046356 438377 |
| GTIN         | 4046356438377                                                                                           |

### 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

|                       |              |
|-----------------------|--------------|
| 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 |

# Flush-type connector - SACC-E-M12MS-8CON-M16/0,5 P - 1436424

## Technical data

### General

|                             |                                        |
|-----------------------------|----------------------------------------|
| 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                      | 1.25 Nm ... 1.5 Nm (Installation-side) |
| Mounting type               | Front mounting M16 x 1.5               |

### Material

|                                        |        |
|----------------------------------------|--------|
| Flammability rating according to UL 94 | HB     |
| Contact material                       | CuZn   |
| Contact surface material               | Au     |
| Contact carrier material               | PA 6.6 |
| Material, knurls                       | PA 6.6 |
| Sealing material                       | Viton  |

### 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                        | Brown, blue, white, gray, pink, green, yellow, red |
| Material conductor insulation      | TPE                                                |
| Conductor material                 | Tin-plated Cu litz wires                           |
| Standards/specifications           | M12 connector IEC 61076-2-101                      |
| 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 ... 85 °C (cable, fixed installation)       |
|                                    | -25 °C ... 85 °C (cable, flexible installation)    |

### Standards and Regulations

|                                        |                               |
|----------------------------------------|-------------------------------|
| Standards/specifications               | M12 connector IEC 61076-2-101 |
| Flammability rating according to UL 94 | HB                            |

### Environmental Product Compliance

|            |                                           |
|------------|-------------------------------------------|
| REACH SVHC | Lead 7439-92-1                            |
| China RoHS | Environmentally Friendly Use Period = 25; |

## Flush-type connector - SACC-E-M12MS-8CON-M16/0,5 P - 1436424

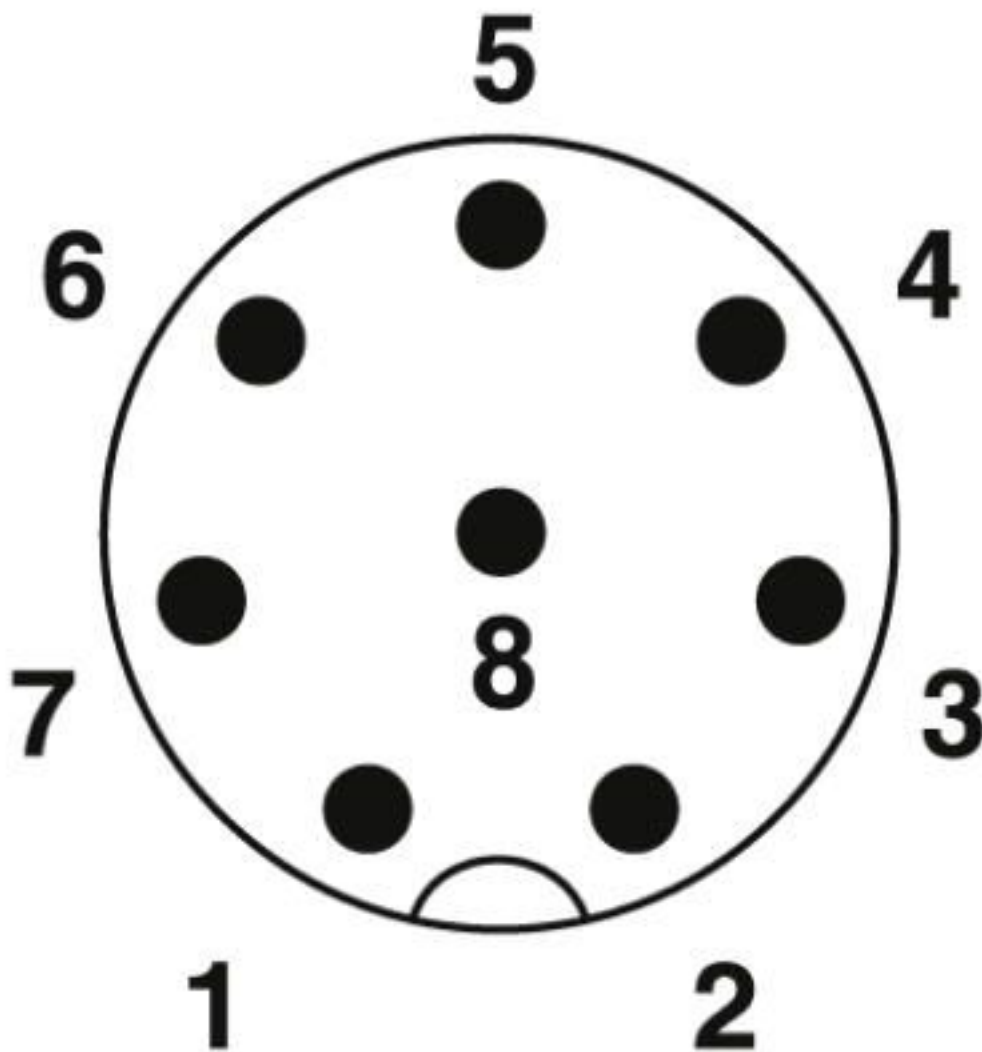
### Technical data

#### Environmental Product Compliance

|  |                                                                                                        |
|--|--------------------------------------------------------------------------------------------------------|
|  | For details about hazardous substances go to tab "Downloads",<br>Category "Manufacturer's declaration" |
|--|--------------------------------------------------------------------------------------------------------|

### Drawings

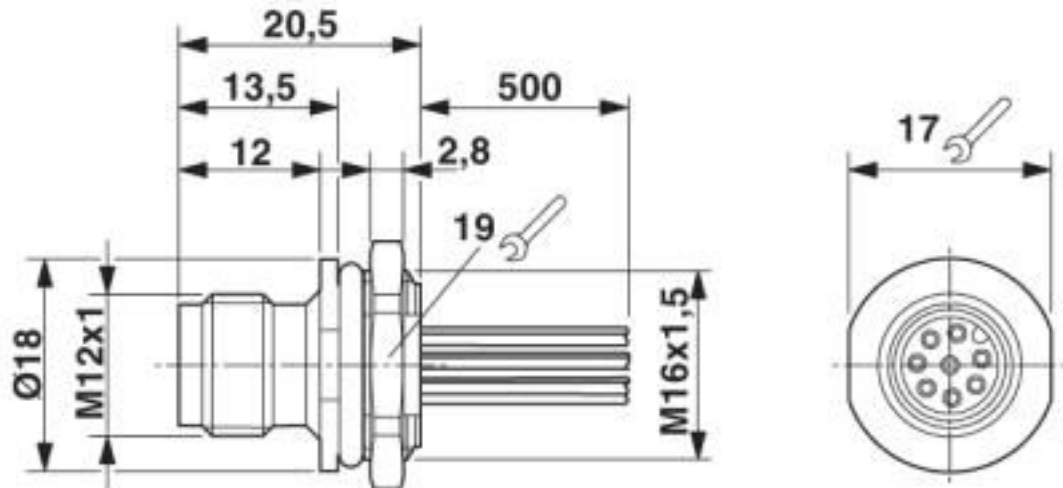
Schematic diagram



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

## Flush-type connector - SACC-E-M12MS-8CON-M16/0,5 P - 1436424

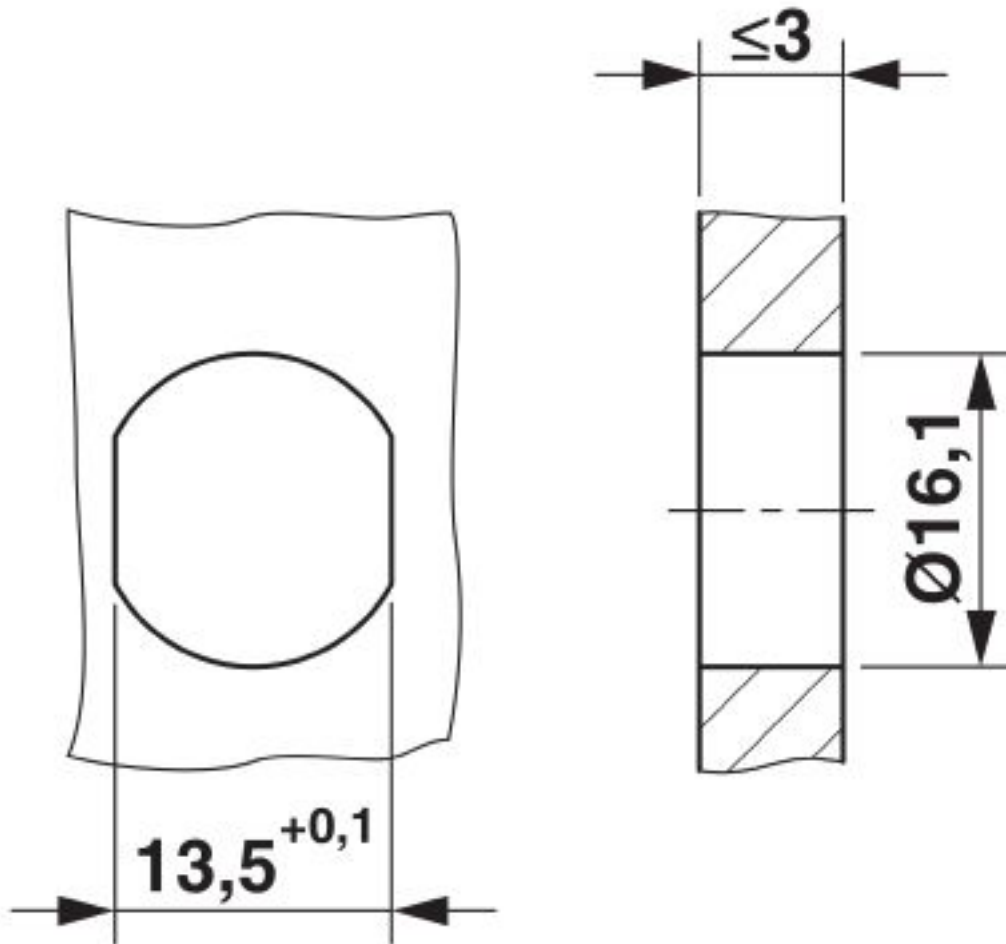
Dimensional drawing



M12 flush-type connector

## Flush-type connector - SACC-E-M12MS-8CON-M16/0,5 P - 1436424

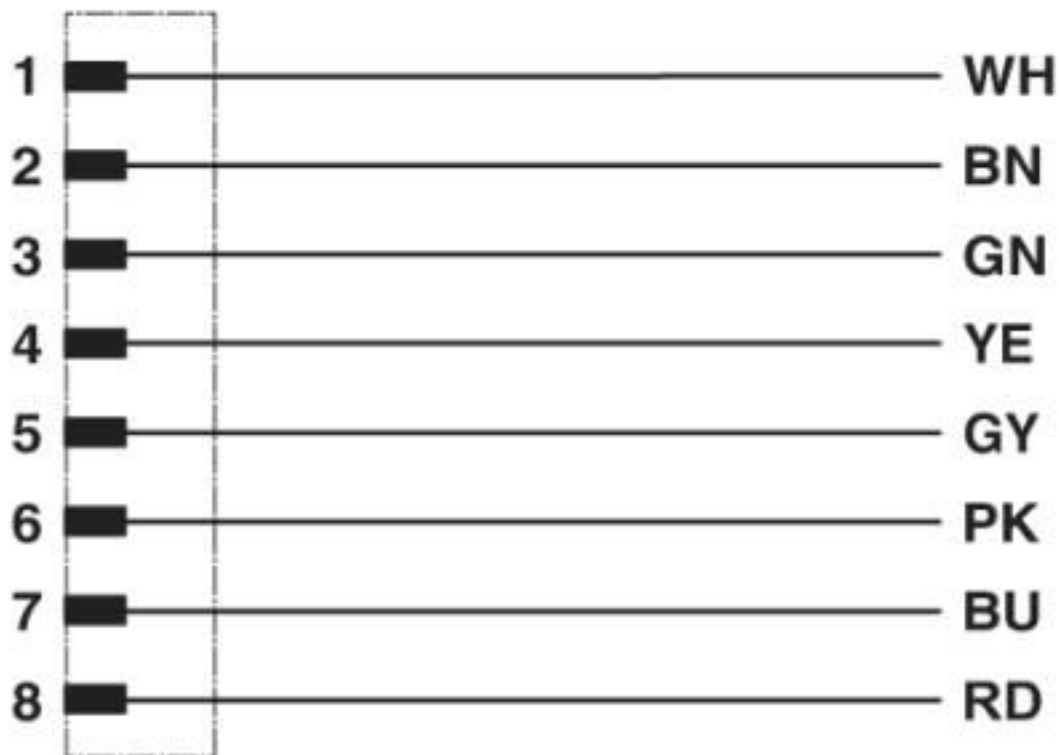
Dimensional drawing



Housing cutout for M12 fastening thread, mounting panel with feed-through hole (alternative with surface as protection against rotation)

## Flush-type connector - SACC-E-M12MS-8CON-M16/0,5 P - 1436424

Circuit diagram



Contact assignment of the M12 plug

### Classifications

#### eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27440102 |
| eCl@ss 4.0    | 27140800 |
| eCl@ss 4.1    | 27140800 |
| eCl@ss 5.0    | 27143400 |
| eCl@ss 5.1    | 27143400 |
| eCl@ss 6.0    | 27279200 |
| eCl@ss 7.0    | 27440103 |
| eCl@ss 8.0    | 27440103 |
| eCl@ss 9.0    | 27440102 |

#### ETIM

|          |          |
|----------|----------|
| ETIM 3.0 | EC002061 |
| ETIM 4.0 | EC002061 |
| ETIM 5.0 | EC002061 |
| ETIM 6.0 | EC002061 |

## Flush-type connector - SACC-E-M12MS-8CON-M16/0,5 P - 1436424

### Classifications

#### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 31251501 |
| UNSPSC 7.0901 | 31251501 |
| UNSPSC 11     | 31251501 |
| UNSPSC 12.01  | 31251501 |
| UNSPSC 13.2   | 39121413 |
| UNSPSC 18.0   | 39121413 |
| UNSPSC 19.0   | 39121413 |
| UNSPSC 20.0   | 39121413 |
| UNSPSC 21.0   | 39121413 |

### Approvals

#### Approvals

---

Approvals

EAC

---

Ex Approvals

#### Approval details

|     |                                                                                     |         |
|-----|-------------------------------------------------------------------------------------|---------|
| EAC |  | B.01687 |
|-----|-------------------------------------------------------------------------------------|---------|

### 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

## Flush-type connector - SACC-E-M12MS-8CON-M16/0,5 P - 1436424

### Accessories

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-M16-SEAL CLM - 1430394



M16 flat gasket, for rear mounting of M12 flush-type connectors with M16 fastening thread

---

Phoenix Contact 2020 © - all rights reserved  
<http://www.phoenixcontact.com>

**PHOENIX CONTACT GmbH & Co. KG**  
Flachsmarktstr. 8  
32825 Blomberg  
Germany  
Tel. +49 5235 300  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.com>



# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Phoenix Contact:](#)

[1436424](#)