

Flush-type connector - SACC-E-MS-12CON-M16/0,5 SCO - 1556265

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Sensor/actuator flush-type plug, 12-pos., M12 SPEEDCON, front/screw mounting with M16 thread, with 0.5 m PVC litz wire, 12 x 0.14 mm²

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



Key Commercial Data

| | |
|--------------|---|
| Packing unit | 1 pc |
| GTIN |  4 046356 176781 |
| GTIN | 4046356176781 |

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 | 1.5 A |

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Technical data

General

| | |
|-----------------------------|-----------------------------------|
| Rated voltage | 30 V |
| Rated surge voltage | 0.8 kV |
| Number of positions | 12 |
| Insulation resistance | ≥ 100 MΩ |
| Coding | A - standard |
| Standards/regulations | M12 connector IEC 61076-2-101 |
| Signal type/category | Universal |
| Status display | No |
| Overvoltage category | II |
| Degree of pollution | 3 |
| Connection method | Individual wires |
| Insertion/withdrawal cycles | > 100 |
| Torque | 3 Nm ... 4 Nm (Installation-side) |
| Mounting type | Front mounting M16 x 1.5 |

Material

| | |
|--|------------------------------|
| Flammability rating according to UL 94 | V0 |
| Contact material | CuZn |
| Contact surface material | Ni/Au |
| Contact carrier material | PA 6.6 |
| 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 | 0.14 mm ² |
| AWG signal line | 26 |
| Conductor structure signal line | 7x 0.16 mm |
| Core diameter including insulation | 1.1 mm ±0.05 mm |
| Thickness, insulation | 0.21 mm (Core insulation) |
| Wire colors | Brown, blue, white, green, pink, yellow, black, gray, red, violet, gray/pink, red/blue |
| 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 | ≤ 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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Technical data

Standards and Regulations

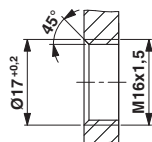
| | |
|--|-----------------|
| Standard designation | M12 connector |
| Standards/regulations | IEC 61076-2-101 |
| Flammability rating according to UL 94 | V0 |

Environmental Product Compliance

| | |
|------------|---|
| | Lead 7439-92-1 |
| China RoHS | Environmentally Friendly Use Period = 50 |
| | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

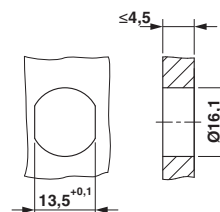
Drawings

Dimensional drawing



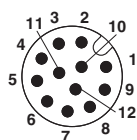
Housing cutout for M16 fastening thread, mounting panel with thread

Dimensional drawing



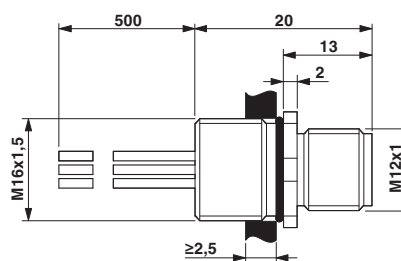
Housing cutout for M16 fastening thread, mounting panel with feed-through hole (alternatively with surface as protection against rotation)

Schematic diagram



Pin assignment M12 male connector, 12-pos., male side view

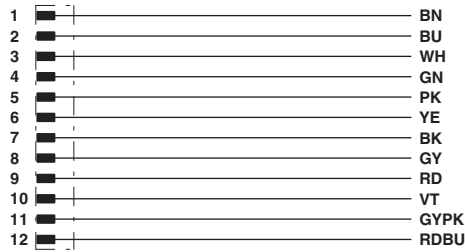
Dimensional drawing



M12 flush-type plug

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Circuit diagram



Contact assignment of the M12 plug

Approvals

Approvals

Approvals

EAC / cULus Recognized

Ex Approvals

Approval details

| | | |
|-----|--|---------|
| EAC | | B.00767 |
|-----|--|---------|

| | | |
|------------------|--|--|
| cULus Recognized | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm E221474-20140616 |
|------------------|--|--|

| | |
|----------------------------|-------|
| Nominal voltage UN | 30 V |
| Nominal current IN | 1.5 A |
| mm ² /AWG/kcmil | 26 |

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