

## Connector - SACC-M12MS-8CON-PG 9-SH - 1511857

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Connector, 8-position, shielded, Plug straight M12, A-coded, Screw connection, Knurl material: Zinc die-cast, nickel-plated, Cable gland Pg9, External cable diameter 6 mm ... 8 mm

### Product Features

- ✓ Safe use in the field, thanks to a high degree of protection
- ✓ Flexible: connectors for on-site assembly
- ✓ Screw connection: proven connection technology for a large selection of different conductors
- ✓ Reliable signal transmission - 360° shielding in environments with electromagnetic interference



### Key commercial data

|                                      |          |
|--------------------------------------|----------|
| Packing unit                         | 1 pc     |
| Weight per Piece (excluding packing) | 44.8 GRM |
| Custom tariff number                 | 85366990 |
| Country of origin                    | Germany  |

### Technical data

#### Dimensions

|                                         |               |
|-----------------------------------------|---------------|
| External diameter                       | 6 mm ... 8 mm |
| Stripping length of the sheath          | 35 mm         |
| Stripping length of the individual wire | 5 mm          |

#### Ambient conditions

|                                 |                                  |
|---------------------------------|----------------------------------|
| Ambient temperature (operation) | -40 °C ... 85 °C (Plug / socket) |
| Degree of protection            | IP67                             |

#### General

|                       |      |
|-----------------------|------|
| Rated current at 40°C | 2 A  |
| Rated voltage         | 30 V |
| Number of positions   | 8    |

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## Technical data

### General

|                             |                                                                    |
|-----------------------------|--------------------------------------------------------------------|
| Contact resistance          | $\leq 3 \text{ m}\Omega$                                           |
| Insulation resistance       | $\geq 100 \text{ M}\Omega$                                         |
| Coding                      | A - standard                                                       |
| Standards/regulations       | M12 connector IEC 61076-2-101                                      |
| Status display              | No                                                                 |
| Surge voltage category      | II                                                                 |
| Pollution degree            | 3                                                                  |
| Connection method           | Screw connection                                                   |
| Conductor cross section     | $0.25 \text{ mm}^2 \dots 0.5 \text{ mm}^2$                         |
| AWG conductor cross section | 24 ... 20                                                          |
| Insertion/withdrawal cycles | $\geq 100$                                                         |
| Torque                      | 0.4 Nm (M12 knurl)                                                 |
|                             | 0.2 Nm (Screw terminal blocks)                                     |
|                             | 0.8 Nm ... 1 Nm (Pressure nut with coupling sleeve)                |
| Tightening torque           | Screw plug insert with sleeve housing as far it will go            |
| Assembly instructions       | The wires can be connected both with ferrules and without ferrules |

### Material

|                                         |                              |
|-----------------------------------------|------------------------------|
| Inflammability class according to UL 94 | HB                           |
| Contact material                        | CuZn                         |
| Contact surface material                | Au                           |
| Contact carrier material                | PA                           |
| Material of grip body                   | Zinc die-cast, nickel-plated |
| Material, knurls                        | Zinc die-cast, nickel-plated |
| Sealing material                        | NBR                          |

## 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 |
| eCl@ss 7.0 | 27449001 |
| eCl@ss 8.0 | 27440104 |

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### Classifications

#### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC001121 |
| ETIM 3.0 | EC002062 |
| ETIM 4.0 | EC002062 |
| ETIM 5.0 | EC002062 |

#### 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 / cUL Recognized / EAC / EAC / cULus Recognized

#### Ex Approvals

#### Approvals submitted

### Approval details

|                                                                                                   |      |
|---------------------------------------------------------------------------------------------------|------|
| UL Recognized  |      |
| Nominal current I <sub>N</sub>                                                                    | 2 A  |
| Nominal voltage U <sub>N</sub>                                                                    | 30 V |

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### Approvals

|                                                                                                  |      |
|--------------------------------------------------------------------------------------------------|------|
| cUL Recognized  |      |
| Nominal current I <sub>N</sub>                                                                   | 2 A  |
| Nominal voltage U <sub>N</sub>                                                                   | 30 V |

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

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

|                                                                                                    |
|----------------------------------------------------------------------------------------------------|
| cULus Recognized  |
|----------------------------------------------------------------------------------------------------|

### Accessories

#### Accessories

Data cable by the meter

Network cable - VS-OE-OE-94B-100,0 - 1416567



Network cable, Ethernet CAT5 (1 Gbps), 8-position, PUR halogen-free, water blue RAL 5021, shielded, free cable end, on free cable end, Cable length: 100 m

Network cable - VS-OE-OE-94C-100,0 - 1416318



Network cable, Ethernet CAT5 (1 Gbps), 8-position, PUR halogen-free, water blue RAL 5021, shielded, free cable end, on free cable end, Cable length: 100 m, For drag chains

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### Accessories

Network cable - VS-OE-OE-94F-100,0 - 1416347



Network cable, Ethernet CAT6<sub>A</sub> (10 Gbps), 8-position, PUR halogen-free, water blue RAL 5021, shielded, free cable end, on free cable end, Cable length: 100 m

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### Protective cap

Sealing cap - PROT-M12 FS-PA-CHAIN - 1430873

M12 sealing cap made of plastic with fixing band, for sensor cables, for free M12 sockets



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### Screwdriver tools

Tool - SACC BIT M12-D20 - 1208445



Nut for assembling SACC M12 connectors for free assembly, excluding M12 connectors with QUICKON fast connection technology, for 4 mm hexagonal drive

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Adapter insert - TSD-M SAC-BIT ADAPTER - 1212600



Adapter bit for TSD-M...torque tools, E6.3-1/4" drive with 4 mm hexagon to accommodate SAC bits

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### Torque tool

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### Accessories

Torque screwdriver - TSD 04 SAC - 1208429



Torque screwdriver, with preset torque of 0.4 Nm and 4 mm hexagonal drive for M12 connectors

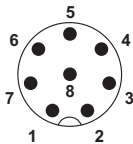
Torque screwdriver - TSD-M 1,2NM - 1212224



Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 0.3 - 1.2 Nm

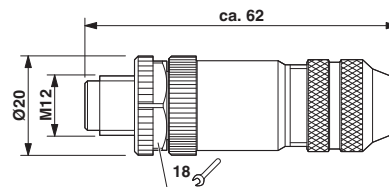
### Drawings

Schematic diagram



Pin assignment of M12 plug, 8-pos., A-coded, view of plug side

Dimensioned drawing

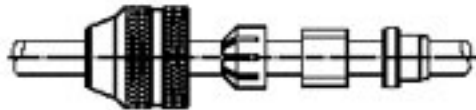


Plug, M12 x 1, straight, shielded

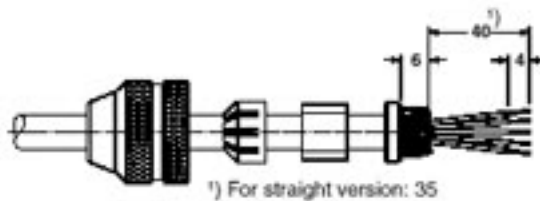
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Functional drawing

### Assembly steps for M 12 male/female connector and conductor



Slide parts onto the conductor



Strip conductor, widen shield and lay around the shielding ring, cut off projecting mesh.

