

## Connector - SACC-MSD-4QO SH ETH SCO - 1411066

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Connector, Ethernet CAT5 (100 Mbps), 4-position, halogen-free, shielded, Plug straight M12 SPEEDCON, D-coded, Insulation displacement connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 5 mm ... 9.7 mm

### Your advantages

- ✓ Safe use in the field, thanks to a high degree of protection
- ✓ Flexible: connectors for on-site assembly
- ✓ Insulation displacement connection: innovative and time-saving assembly without stripping the single wire
- ✓ Reliable signal transmission - 360° shielding in environments with electromagnetic interference
- ✓ Save time, thanks to installation with SPEEDCON fast locking system



### Key Commercial Data

|                                      |   |
|--------------------------------------|---|
| Packing unit                         | 1 pc  |
| GTIN                                 | <br>4 046356 921787 |
| GTIN                                 | 4046356921787   |
| Weight per Piece (excluding packing) | 40.400 g  |
| Custom tariff number                 | 85366990  |
| Country of origin                    | Germany   |

### Technical data

#### Dimensions

|                                |                 |
|--------------------------------|-----------------|
| Wrench size, union nut         | 15 mm           |
| Diameter housing               | 19 mm           |
| Length                         | 58 mm           |
| External cable diameter        | 5 mm ... 9.7 mm |
| Stripping length of the sheath | ≥ 80 mm         |

#### Ambient conditions

|                                 |                                  |
|---------------------------------|----------------------------------|
| Ambient temperature (operation) | -40 °C ... 85 °C (Plug / socket) |
| Ambient temperature (assembly)  | -5 °C ... 50 °C                  |

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## Technical data

### Ambient conditions

|                      |      |
|----------------------|------|
| Degree of protection | IP65 |
|                      | IP67 |

### General

|   |   |
|---|---|
| Rated current at 40°C   | 4 A   |
| Rated voltage   | 60 V DC   |
|   | 48 V AC   |
| Number of positions   | 4   |
| Insulation resistance   | ≥ 100 MΩ  |
| Coding  | D - data  |
| Standards/regulations   | M12 connector according to IEC 61076-2-101          |
|   | Shock, vibration EN 50155:2001                      |
| Signal type/category  | Ethernet CAT5 (on the basis of IEC 11801), 100 Mbps |
| Status display  | No  |
| Overvoltage category  | II  |
| Degree of pollution   | 3   |
| Connection method   | Insulation displacement connection                  |
| Conductor cross section   | 0.14 mm² ... 0.34 mm² (flexible)                    |
|   | 0.14 mm² ... 0.34 mm² (solid)                       |
| Conductor cross section AWG   | 26 ... 22 (flexible)                                |
|   | 26 ... 22 (solid)                                   |
| Wire diameter including insulation  | 0.75 mm ... 2 mm                                    |
| Frequency of connections between conductors of the same cross section       | 10  |
| Wire insulation material  | PVC / PE / PP / rubber                              |
| Structure of individual litz in acc. with VDE 0295 / smallest wire diameter | Class 2-6   |
| Insertion/withdrawal cycles   | ≥ 100   |
| Torque  | M12 knurl   |
|   | 5 Nm (Pressure nut)                                 |

### Material

|  |  |
|--|--|
| Flammability rating according to UL 94 | V0   |
| Contact material                       | CuSn   |
| 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                       | NBR  |
| Standards/regulations                  | PA 6.6: Fire protection in rail vehicles - requirement sets R22, R23, R24, and R26 acc. to DIN EN 45545-2 (Risk level HL1 - HL3) |

### Standards and Regulations

|                      |               |
|----------------------|---------------|
| Standard designation | M12 connector |
|----------------------|---------------|

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## Technical data

### Standards and Regulations

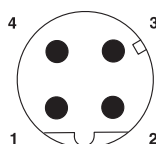
|  |                              |
|--|------------------------------|
| Standards/regulations                  | according to IEC 61076-2-101 |
| Standard designation                   | Shock, vibration             |
| Standards/regulations                  | EN 50155:2001                |
| Flammability rating according to UL 94 | V0                           |

### Environmental Product Compliance

|            |   |
|------------|---|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|            | No hazardous substances above threshold values          |

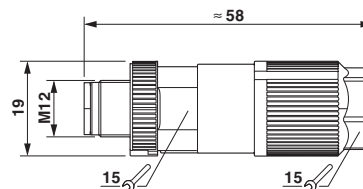
## Drawings

Schematic diagram



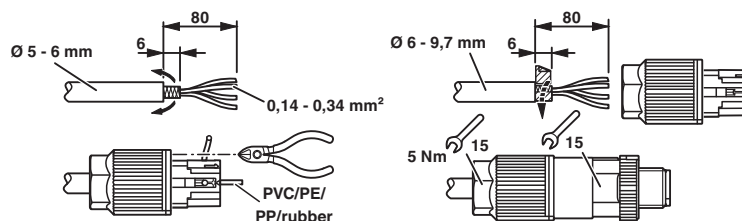
Pin assignment M12 male connector, 4-pos., D-coded, male side

Dimensional drawing



Plug, M12 x 1, straight, shielded

Functional drawing



## Classifications

eCl@ss

|            |          |
|------------|----------|
| eCl@ss 5.1 | 27143400 |
| eCl@ss 6.0 | 27279200 |
| eCl@ss 7.0 | 27440104 |
| eCl@ss 8.0 | 27440104 |
| eCl@ss 9.0 | 27440102 |

ETIM

|          |          |
|----------|----------|
| ETIM 5.0 | EC002635 |
| ETIM 6.0 | EC002635 |

## Connector - SACC-MSD-4QO SH ETH SCO - 1411066

### Approvals

#### Approvals

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Approvals

EAC

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Ex Approvals

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#### Approval details

|     |   |               |
|-----|---|---------------|
| EAC |  | EAC-Zulassung |
|-----|---|---------------|

### Accessories

#### Accessories

##### Data cable by the meter

Network cable - VS-OE-OE-93E/... - 1417320



Network cable, Ethernet CAT5 (100 Mbps), 4-position, PUR halogen-free, water blue RAL 5021, shielded, free cable end, on free cable end, cable length: Free input (0.5 ... 100 m)

#### Electronics pliers

Diagonal cutter - MICROFOX-SB - 1212489



Electronic diagonal cutter, round head, without chamfer, with opening spring, mirror-polished and oiled, 2-component grip, cutting capacity: soft 0.2 - 2.0 mm; medium hard 1.2 mm; hard 0.5 mm diameter

#### 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 plugs



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### Accessories

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#### Screwdriver tools

Tool - SACC BIT M12-D20 - 1208445



Nut for assembling M12 connectors for assembly with a knurl diameter of 20 mm, 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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#### Stripping tool

Stripping tool - WIREFOX-D 40 - 1212161



Stripping tool, for stripping cables of 4.5 mm - 40 mm-Ø, insulation thickness of up to 4.5 mm, pivoting blade for round, lengthwise, and spiral cuts

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#### Torque tool

Torque screwdriver - TSD 04 SAC - 1208429



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

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



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

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### Accessories

Shielding foil - VS-08-RJ45-FOLIEN-SET - 1417184

Shielding foil set, 25 pieces, replacement for RJ45 and M12 Quickon connector



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Stripping tool - VS-CABLE-STRIP-VARIO - 1657407

Stripping tool, for the multi-level stripping of shielded cables



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