

# Connector - SACC-MS-8QO SH ETH SCO - 1421679

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Connector, Ethernet CAT5 (1 Gbps), 8-position, halogen-free, shielded, Plug straight M12 SPEEDCON, A-coded, Insulation displacement connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 5 mm ... 9.7 mm

## Why buy this product

- Safe use in the field, thanks to a high degree of protection
- Flexible: connectors for on-site assembly
- Save time, thanks to installation with SPEEDCON fast locking system
- Reliable signal transmission - 360° shielding in environments with electromagnetic interference

## Ethernet

### Key Commercial Data

|              |   |
|--------------|---|
| Packing unit | 1 STK   |
| GTIN         | <br>4 055626 276816 |
| GTIN         | 4055626276816   |

## 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                  |
| Degree of protection            | IP65                             |
|                                 | IP67                             |

### General

|                       |         |
|-----------------------|---------|
| Rated current at 40°C | 2 A     |
| Rated voltage         | 48 V AC |
|                       | 60 V DC |

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## Technical data

### General

|   |   |
|---|---|
| Number of positions   | 8   |
| Insulation resistance   | ≥ 100 MΩ  |
| Coding  | A - standard                                      |
| Standards/regulations   | M12 connector according to IEC 61076-2-101        |
| Signal type/category  | Ethernet CAT5 (on the basis of IEC 11801), 1 Gbps |
| Status display  | No  |
| Overvoltage category  | III   |
| 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                |
| Standards/regulations                  | according to IEC 61076-2-101 |
| Flammability rating according to UL 94 | V0                           |

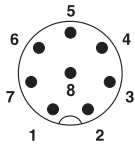
### Environmental Product Compliance

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

## Drawings

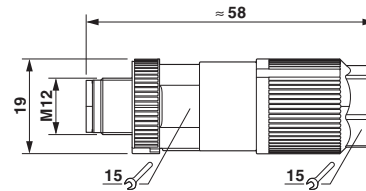
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Schematic diagram



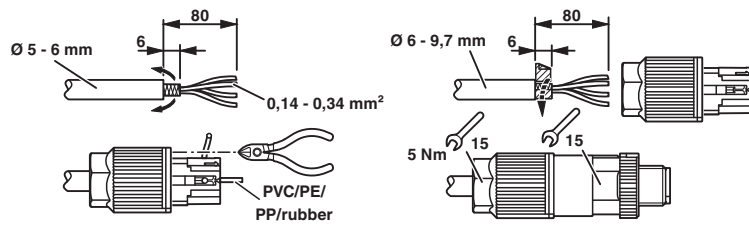
Pin assignment of M12 plug, 8-pos., A-coded, view of plug side

Dimensional drawing



Plug, M12 x 1, straight, shielded

Functional drawing



## Approvals

Approvals

Approvals

EAC

Ex Approvals

## Approval details

|     |  |                          |
|-----|--|--------------------------|
| EAC |  | RU C-<br>DE.AI30.B.01102 |
|-----|--|--------------------------|

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