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## Bus system connector - SACC-MS-4QO SH PBPA SCO - 1413933

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Bus system connector, PROFIBUS PA (31.25 kbps), 2-position, halogen-free, shielded, Plug straight M12, 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
- 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 STK   |
| GTIN         | <br>4 055626 013152 |

### Technical data

#### Dimensions

|                                |                 |
|--------------------------------|-----------------|
| Wrench size, union nut         | 15 mm           |
| External 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 | 4 A     |
| Rated voltage         | 30 V DC |
| Number of positions   | 2       |

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## Technical data

### General

|   |   |
|---|---|
| Insulation resistance   | ≥ 100 MΩ  |
| Coding  | A - standard  |
| Standards/regulations   | M12 connector IEC 61076-2-101                                     |
| Signal type/category  | PROFIBUS PA, 31.25 kbps   |
| Status display  | No  |
| Overvoltage category  | II  |
| Degree of pollution   | 3   |
| Connection method   | Insulation displacement connection                                |
| Conductor cross section   | 0.25 mm² ... 0.75 mm² (stranded)                                  |
|   | 0.14 mm² ... 0.5 mm² (solid)                                      |
| Conductor cross section AWG   | 24 ... 18 (stranded)  |
|   | 26 ... 20 (solid)   |
| Wire diameter including insulation  | 1 mm ... 2 mm (maximum of 2.6 mm when connecting PROFIBUS cables) |
| 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  | 0.4 Nm (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, and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3) |

### Standards and Regulations

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

## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 5.1 | 27143423 |
| eCl@ss 6.0 | 27279221 |

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## Classifications

eCl@ss

|            |          |
|------------|----------|
| eCl@ss 8.0 | 27440102 |
|------------|----------|

ETIM

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

## Approvals

Approvals

Approvals

EAC

Ex Approvals

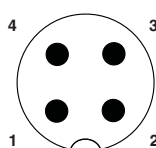
Approvals submitted

Approval details

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

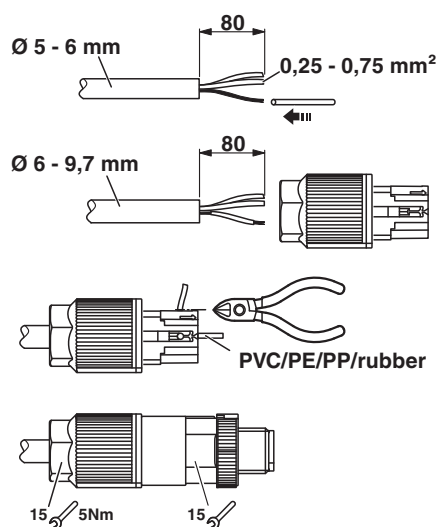
## Drawings

Schematic diagram



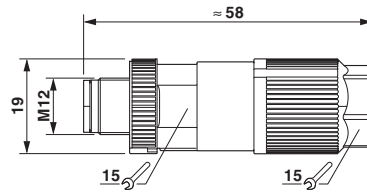
Pin assignment M12 male connector, 4-pos., A-coded, male side

Functional drawing



## Bus system connector - SACC-MS-4QO SH PBPA SCO - 1413933

Dimensional drawing



Plug, M12 x 1, straight, shielded

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