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Bus system connector - SACC-MSB-2SC SH PB SCO - 1432842

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Bus system connector, PROFIBUS (12 Mbps), 2-position, shielded, Plug straight M12 SPEEDCON, B-coded, Spring-cage connection, Knurl material: Zinc die-cast, nickel-plated, External cable diameter 4 mm ... 8 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
- Spring-cage connection: connect more securely, even in the case of shock and vibration, thanks to high contact forces
- Reliable signal transmission - 360° shielding in environments with electromagnetic interference



Key Commercial Data

| | |
|--------------|---|
| Packing unit | 1 STK |
| GTIN |  4 046356 348492 |

Technical data

Dimensions

| | |
|---|---------------|
| External diameter | 4 mm ... 8 mm |
| Stripping length of the sheath | 33 mm |
| Stripping length of the individual wire | 10 mm |

Ambient conditions

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

General

| | |
|-----------------------|----------|
| Rated current at 40°C | 4 A |
| Rated voltage | 60 V DC |
| | 48 V AC |
| Number of positions | 2 |
| Insulation resistance | ≥ 100 MΩ |

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Technical data

General

| | |
|-----------------------------|--|
| Coding | B - inverse |
| Standards/regulations | M12 connector IEC 61076-2-101 |
| | Shock, vibration EN 50155:2001 |
| Signal type/category | PROFIBUS, 12 Mbps |
| Status display | No |
| Overvoltage category | II |
| Degree of pollution | 3 |
| Connection method | Spring-cage connection |
| Conductor cross section | 0.14 mm² ... 0.5 mm² |
| Conductor cross section AWG | 26 ... 20 |
| Insertion/withdrawal cycles | ≥ 100 |
| Torque | 0.4 Nm (M12 knurl) |
| | 0.8 Nm (Connector with coupling sleeve) |
| | 3 Nm (Pressure nut with coupling sleeve) |
| Assembly instructions | AWG 18 wire cross section upon request |
| | The wires can be connected both with ferrules and without ferrules |

Material

| | |
|--|------------------------------|
| Flammability rating according to UL 94 | V0 |
| Contact material | CuSn |
| Contact surface material | Ni/Au |
| Contact carrier material | TPU |
| Material of grip body | Zinc die-cast, nickel-plated |
| Material, knurls | Zinc die-cast, nickel-plated |
| Sealing material | NBR |

Standards and Regulations

| | |
|--|------------------|
| Standard designation | M12 connector |
| Standards/regulations | IEC 61076-2-101 |
| Standard designation | Shock, vibration |
| Standards/regulations | EN 50155:2001 |
| Connection in acc. with standard | CUL |
| Flammability rating according to UL 94 | V0 |

Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 4.0 | 27250313 |
| eCl@ss 4.1 | 27250313 |
| eCl@ss 5.0 | 27143423 |
| eCl@ss 5.1 | 27143423 |
| eCl@ss 6.0 | 27143423 |

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Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 7.0 | 27449001 |
| eCl@ss 8.0 | 27440104 |
| eCl@ss 9.0 | 27440102 |

ETIM

| | |
|----------|----------|
| ETIM 3.0 | EC001855 |
| 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 _N | 4 A |
| Nominal voltage U _N | 300 V |

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Approvals

| | |
|--|-------|
| cUL Recognized  | |
| Nominal current I _N | 4 A |
| Nominal voltage U _N | 300 V |

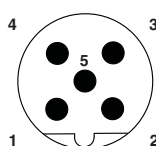
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| EAC |
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| cULus Recognized  |
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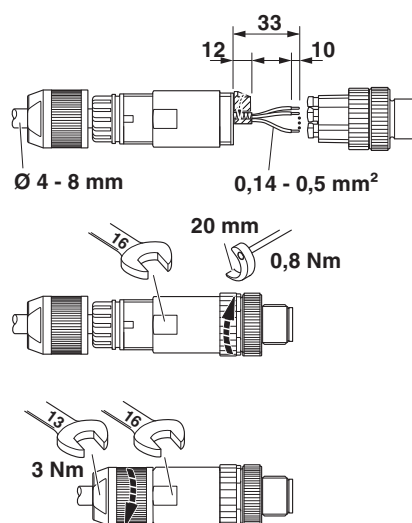
Drawings

Schematic diagram



Pin assignment M12 plug, 5-pos., B-coded

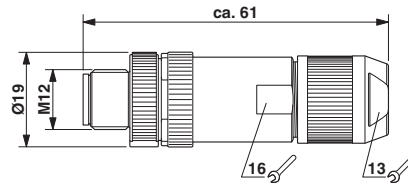
Functional drawing



Slide the pressure nut and sleeve housing along the cable, strip the cable, shorten the shield, strip the single wires, connect the wires, in the case of a straight sleeve housing gently twist the wires together, stick the shielding foil around the shortened shield, in the case of a cable outside diameter < 6 mm stick an additional shielding foil around the wire pack, screw the sleeve housing to the plug insert, screw the pressure nut tight.

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Dimensional drawing



M12 SPEEDCON plug, straight, shielded

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