

Bus system connector - SACC-M12FSB-5CON-PG9 SH XL PB - 1401097

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Bus system connector, female connector, straight, 5-pos., M12, shielded, gold-plated contacts, B-coded, screw connection, metal knurl, Pg11 cable gland

Why buy this product

- ✓ 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 |
| GTIN |  4 046356 523356 |
| Weight per Piece (excluding packing) | 57.64 g |
| Custom tariff number | 85366990 |
| Country of origin | Germany |

Technical data

Dimensions

| | |
|---|----------------|
| External diameter | 8 mm ... 10 mm |
| Stripping length of the sheath | 35 mm |
| Stripping length of the individual wire | 5 mm |

Ambient conditions

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

General

| | |
|-----------------------|---------|
| Rated current at 40°C | 4 A |
| Rated voltage | 60 V DC |

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Technical data

General

| | |
|-----------------------------|--|
| | 48 V AC |
| Number of positions | 5 |
| Contact resistance | ≤ 3 mΩ |
| Insulation resistance | ≥ 100 MΩ |
| Coding | B - inverse |
| Standards/regulations | M12 connector IEC 61076-2-101 |
| Signal type/category | PROFIBUS |
| Status display | No |
| Surge voltage category | II |
| Pollution degree | 3 |
| Connection method | Screw connection |
| Conductor cross section | 0.25 mm ² ... 0.75 mm ² |
| AWG conductor cross section | 24 ... 18 |
| Insertion/withdrawal cycles | ≥ 100 |
| Torque | 1 Nm ... 1.4 Nm (Pressure nut with coupling sleeve) |
| | 0.2 Nm (Screw terminal blocks) |
| | 0.4 Nm (M12 connector) |
| 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 | V0 |
| 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 | 27250313 |
| eCl@ss 4.1 | 27250313 |
| 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 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 / cULus Recognized

Ex Approvals

Approvals submitted

Approval details


| | |
|--------------------|------|
| UL Recognized | |
| Nominal current IN | 4 A |
| Nominal voltage UN | 60 V |

| | |
|--------------------|------|
| cUL Recognized | |
| Nominal current IN | 4 A |
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Approvals

EAC

cULus Recognized 

Accessories

Accessories

Protective cap

Screw plug - PROT-M12 MS-PA-CHAIN - 1430899

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



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

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

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

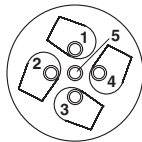
Torque screwdriver - TSD-M 1,2NM - 1212224



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

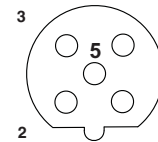
Drawings

Schematic diagram



Cable connection side M12 (screw connection)

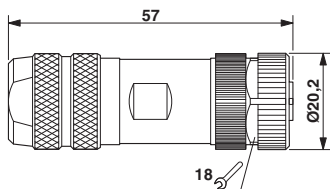
Schematic diagram



Pin assignment M12 socket, 5-pos., B-coded, female side

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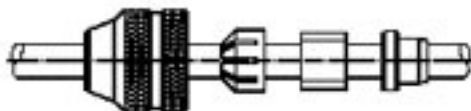
Dimensioned drawing



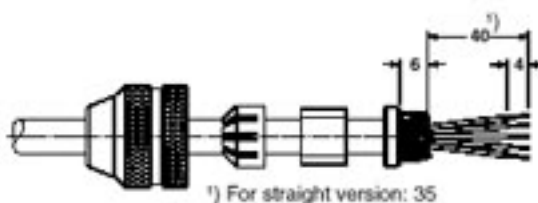
M12 x 1 socket, straight, shielded

Functional drawing

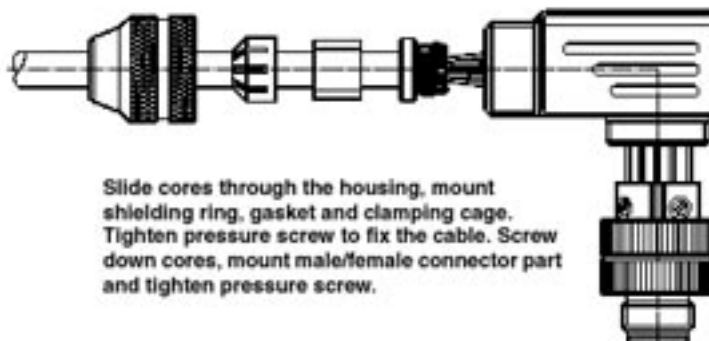
Assembly steps for M 12 male/female connector and conductor



Slide parts onto the conductor



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



Slide cores through the housing, mount shielding ring, gasket and clamping cage. Tighten pressure screw to fix the cable. Screw down cores, mount male/female connector part and tighten pressure screw.