# SACC-M12FSB-5CON-PG 9 - Data connector

1533699

https://www.phoenixcontact.com/us/products/1533699

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Data connector, 5-position, Socket straight M12, coding: B, Screw connection, knurl material: Plastic, cable gland Pg9, external cable diameter 6 mm ... 8 mm

## Your advantages

- Safe use in the field, thanks to a high degree of protection
- Screw connection: proven connection technology for a large selection of different conductors

## Commercial data

| | |
|---|---|
| Item number | 1533699 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | BF30 |
| Product key | BF2CAA |
| GTIN | 4017918992248 |
| Weight per piece (including packing) | 16.57 g |
| Weight per piece (excluding packing) | 16.16 g |
| Customs tariff number | 85366990 |
| Country of origin | HU |

# Technical data

## Notes

| | |
|---|---|
| Assembly note | NOTE: Observe the permissible bending radii when laying conductors, since the degree of protection may be put in jeopardy if the bending forces are too high. Alleviate mechanical loads upstream of the connector, e.g. by using cable ties. |

## Product properties

| | |
|---|---|
| Product type | Circular connector (cable-side) |
| Number of positions | 5 |
| No. of cable outlets | 1 |
| Shielded | no |
| Coding | B |
| Cable outlet | straight |
| Pg screw connection | Pg9 |

### Insulation characteristics

| | |
|---|---|
| Overvoltage category | II |
| Degree of pollution | 3 |

## Dimensions

### External dimensions

| | |
|---|---|
| Outside diameter | 6 mm ... 8 mm |

## Material specifications

| | |
|---|---|
| Flammability rating according to UL 94 | HB |
| Seal material | NBR |
| Material of grip body | PA |
| Contact material | CuZn |
| Contact surface material | CuSnZn |
| Contact carrier material | PA |
| Material for screw connection | Plastic |

## Connection data

### Conductor connection

| | |
|---|---|
| Connection method | Screw connection |
| Connection cross section | 0.25 mm² ... 0.75 mm² |
| Connection cross section AWG | 24 ... 18 |
| Stripping length of the individual wire | 5 mm |
| Tightening torque | 0.4 Nm (M12 knurl) |
| | 0.2 Nm (Screw terminal blocks) |
| | 0.8 Nm ... 1 Nm (Pressure screw with sleeve housing) |

## Electrical properties

| | |
|---|---|
| Contact resistance | ≤ 8 mΩ |
| Insulation resistance | ≥ 100 MΩ |
| Nominal voltage $U_N$ | 60 V DC |
| | 48 V AC |
| Nominal current $I_N$ | 4 A |

## Mechanical properties

Mechanical data

| | |
|---|---|
| Insertion/withdrawal cycles | ≥ 50 |

## Connector

Connection 1

| | |
|---|---|
| Head design | Socket |
| Head cable outlet | straight |
| Head thread type | M12 |
| Coding | B |

## Cable/line

| | |
|---|---|
| Stripping length of the individual wire | 5 mm |

## Environmental and real-life conditions

Ambient conditions

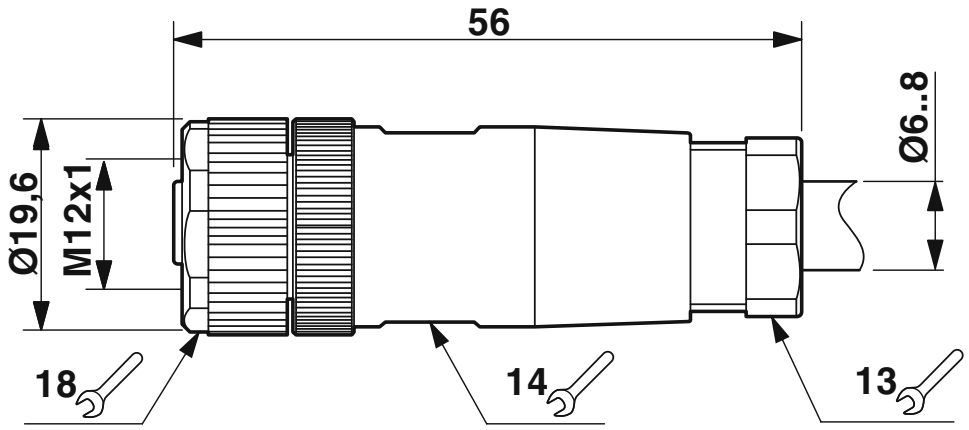
| | |
|---|---|
| Degree of protection | IP67 |
| Ambient temperature (operation) | -40 °C ... 85 °C (Plug / socket) |

## Standards and regulations

| | |
|---|---|
| Standard designation | M12 connector |
| Standards/specifications | IEC 61076-2-101 |

## Drawings

Dimensional drawing




M12 x 1 socket, straight

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1533699

**cUL Recognized**
Approval ID: FILE E 221474

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| | 60 V | 4 A | - | - |

**UL Recognized**
Approval ID: FILE E 221474

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| | 60 V | 4 A | - | - |

**cULus Recognized**

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-11.0 | 27440102 |
| ECLASS-12.0 | 27440116 |
| ECLASS-13.0 | 27440116 |

### ETIM

| | |
|---|---|
| ETIM 8.0 | EC002635 |

### UNSPSC

| | |
|---|---|
| UNSPSC 21.0 | 39121400 |

## Environmental product compliance

EU RoHS

| | |
|---|---|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 6(c) |

China RoHS

| | |
|---|---|
| Environment friendly use period (EFUP) | EFUP-50 |
| | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

EU REACH SVHC

| | |
|---|---|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1) |
| SCIP | 2363b3db-ac3f-44ce-b0f3-1419ed8dd589 |

## Accessories

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

1430899

https://www.phoenixcontact.com/us/products/1430899

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



### SAC-5P-100,0-186/0,75 - Cable reel

1535590

https://www.phoenixcontact.com/us/products/1535590

By the meter, Cable reel, PUR, black-gray RAL 7021, 5-wire, color single wire: brown, white, blue, black, gray, cable length: 100 m



## TSD 04 SAC - Torque screwdriver

1208429

https://www.phoenixcontact.com/us/products/1208429



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

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

1212224

https://www.phoenixcontact.com/us/products/1212224



Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 0. 3 - 1.2 Nm

## TSD-M SAC-BIT ADAPTER - Adapter insert

1212600

https://www.phoenixcontact.com/us/products/1212600



Adapter bit for TSD-M...torque tools, E6.3-1/4" drive with 4 mm hexagon to accommodate SAC bits

## SACC BIT M12-D20 - Tool

1208445

https://www.phoenixcontact.com/us/products/1208445




Nut for assembling M12 connectors for assembly with a knurl diameter of 20 mm, for 4 mm hexagonal drive

## SZF 1-0,6X3,5 - Screwdriver

1204517

https://www.phoenixcontact.com/us/products/1204517



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip


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