# SACC-M12FRS-3PECON-PG 9-M - Power connector

1107272

https://www.phoenixcontact.com/us/products/1107272

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Power connector, 4-position, Socket angled M12, coding: S, Screw connection, knurl material: Zinc die-cast, nickel-plated, cable gland Pg9, external cable diameter 6 mm ... 8 mm, for AC current up to 12 A/630 V

## 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
- High-performance: AC connectors for up to 12 A and 630 V AC
- Protection against incorrect connection using special S-coding

## Commercial data

| | |
|---|---|
| Item number | 1107272 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | BF30 |
| Product key | AF2CAB |
| GTIN | 4063151008901 |
| Weight per piece (including packing) | 28 g |
| Weight per piece (excluding packing) | 22.22 g |
| Customs tariff number | 85366990 |
| Country of origin | DE |

## Technical data

### Notes

| | |
|---|---|
| General | Strip 21 mm off the cable sheath, strip 6 mm off the conductor insulation, crimp the ferrule, then shorten this to 5 mm. Conductor length with shortened ferrule: 20 mm. Connect conductors and tighten the mounting screws with 0.2 Nm. |
| Assembly note | NOTE: Observe the permissible bending radii when routing cables, since the degree of protection may be at risk if the bending forces are too high. Reduce mechanical loads upstream of the connector, e.g., by using cable ties. |

### Mounting

| | |
|---|---|
| Assembly note | The connector pin assignment can be rotated 90° to the cable outlet |

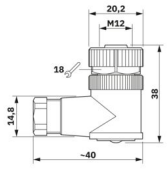
### Product properties

| | |
|---|---|
| Product type | Circular connector (cable-side) |
| Application | Energy supply |
| Number of positions | 4 |
| No. of cable outlets | 1 |
| Shielded | no |
| Coding | S |
| Cable outlet | angled |
| Pg screw connection | Pg9 |

Insulation characteristics

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

### Dimensions

| | |
|---|---|
| Dimensional drawing |  |
| Length | 38 mm |
| Wrench size, union nut | 16 mm |

External dimensions

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

Housing

| | |
|---|---|
| Diameter housing | 20.2 mm |

### Material specifications

| | |
|---|---|
| Flammability rating according to UL 94 | V0 |
| Seal material | Viton (M12 socket) |
| | NBR (Cable clamping) |
| Material of grip body | PA |
| Contact material | CuZn |
| Contact surface material | Au |
| Contact carrier material | PA |
| Material for screw connection | Zinc die-cast, nickel-plated |

## Connection data

Conductor connection

| | |
|---|---|
| Connection method | Screw connection |
| Connection cross section | 0.75 mm² ... 1.5 mm² (with ferrule) |
| | 0.75 mm² ... 2.5 mm² (solid) |
| Connection cross section AWG | 18 ... 16 (with ferrule) |
| Stripping length of the individual wire | 5 mm |
| Tightening torque | 0.4 Nm (M12 knurl) |
| | 0.8 Nm ... 1 Nm (Pressure screw with sleeve housing) |
| | 0.4 Nm (Screw plug insert with sleeve housing as far it will go) |
| | 0.2 Nm (Screw terminal blocks) |

## Electrical properties

| | |
|---|---|
| Rated surge voltage | 6 kV |
| Insulation resistance | > 10 GΩ |
| Nominal voltage $U_N$ | 630 V AC |
| Nominal current $I_N$ | 12 A (when using 1.5 mm² conductors) |
| | 12 A (at 40 °C) |

## Mechanical properties

Mechanical data

| | |
|---|---|
| Insertion/withdrawal cycles | > 100 |

## Connector

Connection 1

| | |
|---|---|
| Head design | Socket |
| Head cable outlet | angled |
| Head thread type | M12 |
| Coding | S |

## Environmental and real-life conditions

Ambient conditions

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

| | |
|---|---|
| connector) | |

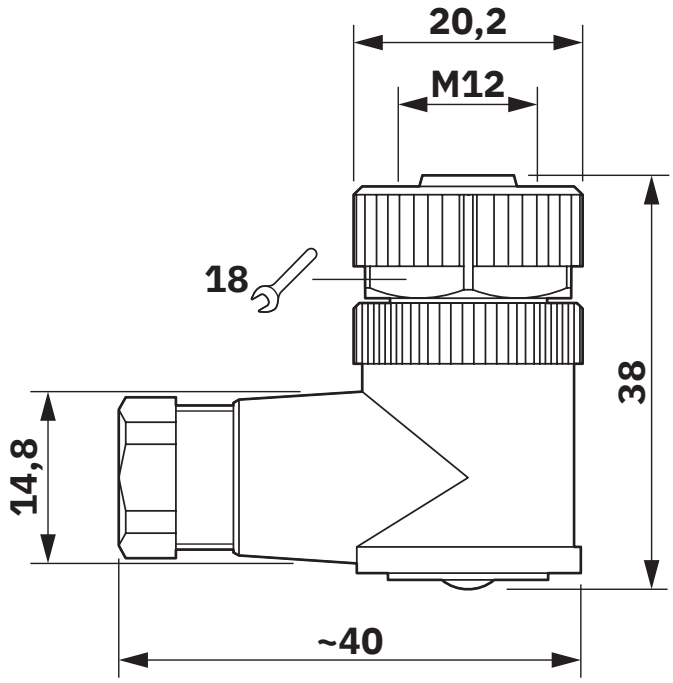
## Standards and regulations

M12

| | |
|---|---|
| Standard designation | M12 connector |
| Standards/specifications | IEC 61076-2-111 |

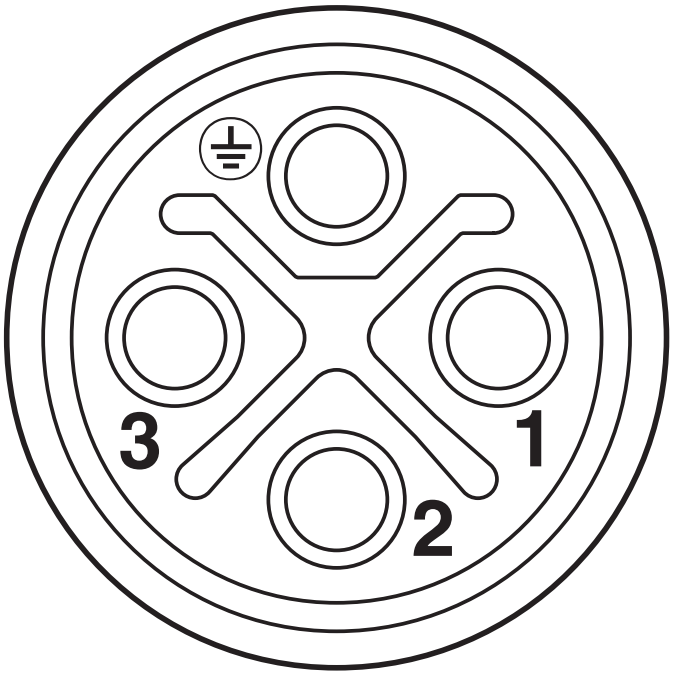
## Drawings

Dimensional drawing




M12 x 1 socket, angled

Schematic diagram




Pin assignment of M12 socket, 4-pos., S-coded, socket side view

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1107272

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

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 600 V | 12 A | - 16 | - |

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

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 600 V | 12 A | - 16 | - |

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-13.0 | 27440116 |
| ECLASS-15.0 | 27440116 |

### ETIM

| | |
|---|---|
| ETIM 10.0 | 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 | 93c8b327-ec1b-47fc-bb12-5aa4b32cc8e9 |

EF3.1 Climate Change

| | |
|---|---|
| CO2e kg | 1.304 kg CO2e |


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