# SACC-M12MSS-3PECT-CM SH - Power connector

1027467

https://www.phoenixcontact.com/us/products/1027467

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Power connector, Power, 4-position, shielded, Plug straight M12, coding: S, Crimp connection, knurl material: Zinc die-cast, tin-plated, external cable diameter 6 mm ... 11 mm, without crimp contacts, Contact 4 leading

## Your advantages

- Extremely compact, thanks to the small wiring space and high contact density
- Safely shielded: reliable shield connection even under extreme mechanical strain
- Robust connection: suitable for railway applications with high shock and vibration loads
- High-performance: AC connectors for up to 12 A and 690 V AC
- Protection against incorrect connection using special S-coding

## Commercial data

| | |
|---|---|
| Item number | 1027467 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | BF34 |
| Product key | AF2CJB |
| GTIN | 4055626521527 |
| Weight per piece (including packing) | 43.5 g |
| Weight per piece (excluding packing) | 42 g |
| Customs tariff number | 85366990 |
| Country of origin | DE |

## Technical data

### Notes

| | |
|---|---|
| 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. |

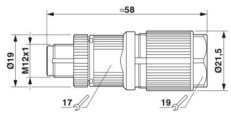
### Product properties

| | |
|---|---|
| Product type | Circular connector (cable-side) |
| Application | Energy supply |
| Number of positions | 4 |
| No. of cable outlets | 1 |
| Shielded | yes |
| Coding | S |
| Cable outlet | straight |

Insulation characteristics

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

### Dimensions

| | |
|---|---|
| Dimensional drawing |   |
| Length | 58 mm |

External dimensions

| | |
|---|---|
| Outside diameter | 6 mm ... 11 mm |

Housing

| | |
|---|---|
| Diameter housing | 21.5 mm |

### Material specifications

| | |
|---|---|
| Flammability rating according to UL 94 | V0 |
| Material of grip body | Zinc die-cast, nickel-plated |
| Contact carrier material | PA |
| Material for screw connection | Zinc die-cast, tin-plated |

### Connection data

Conductor connection

| | |
|---|---|
| Connection method | Crimp connection |
| Connection cross section | 1.5 mm² ... 2.5 mm² (flexible) |

| | |
|---|---|
| Connection cross section AWG | 14 (flexible) |
| Tightening torque | 5 Nm (Pressure nut with coupling sleeve) |

Connection assignment

| | |
|---|---|
| Contact \| Color (signal designation) \| Contact (optional) | 1 = BK1 |
| | 2 = BK2 |
| | 3 = BK3 |
| | PE = GNYE |

## Electrical properties

| | |
|---|---|
| Rated surge voltage | 6 kV |
| Insulation resistance | ≥ 100 MΩ |
| Nominal voltage $U_N$ | 690 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 | Plug |
| Head cable outlet | straight |
| Head thread type | M12 |
| Coding | S |

## Interfaces

| | |
|---|---|
| Signal type/category | Power |

## Environmental and real-life conditions

Ambient conditions

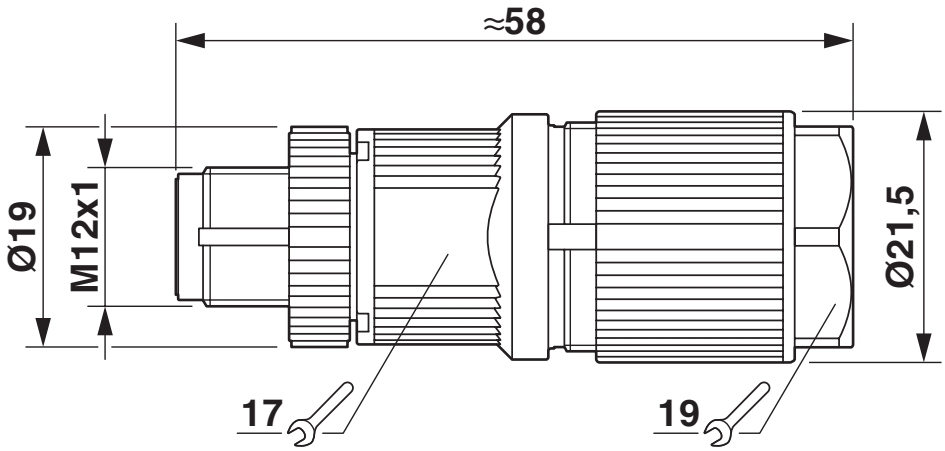
| | |
|---|---|
| Degree of protection | IP65 |
| Ambient temperature (operation) (male connector/female connector) | -40 °C ... 85 °C (Plug / socket) |

## Standards and regulations

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

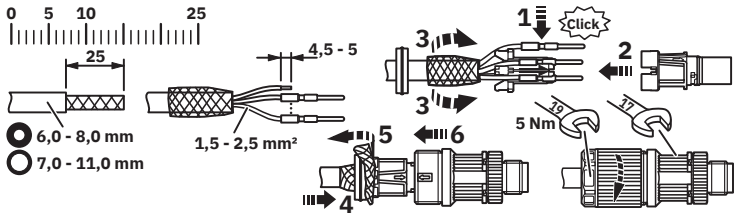
## Drawings

Dimensional drawing

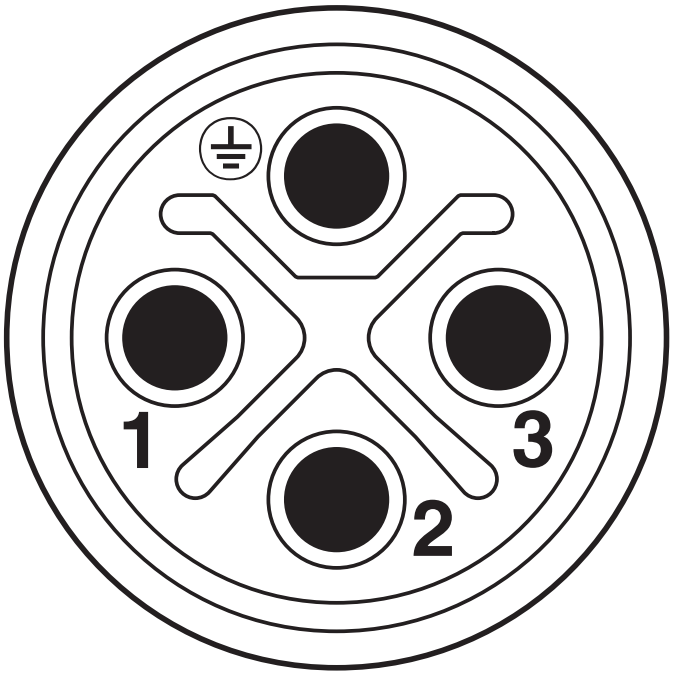



Plug, M12 x 1, straight, shielded

Functional drawing



Schematic diagram




Pin assignment of M12 connector, 3-pos.+PE, S-coded, pin side view

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1027467

**cULus Recognized**
Approval ID: E468743

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 600 V | 12 A | - 14 | - |

## 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, No exemptions |

China RoHS

| | |
|---|---|
| Environment friendly use period (EFUP) | EFUP-E |
| | No hazardous substances above the limits |

EU REACH SVHC

| | |
|---|---|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |

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