# SACC-M12FS-4QO-0,34-M - Connector

1641688

https://www.phoenixcontact.com/us/products/1641688

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Connector, Universal, 4-position, Socket straight M12, coding: A, Insulation displacement connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 3.5 mm ... 6 mm

## Your advantages

- Safe use in the field, thanks to a high degree of protection
- Insulation displacement connection: innovative and time-saving assembly without stripping the single wire

## Commercial data

| | |
|---|---|
| Item number | 1641688 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | BF31 |
| Product key | AF2CCA |
| GTIN | 4017918925178 |
| Weight per piece (including packing) | 14.6 g |
| Weight per piece (excluding packing) | 14.7 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. |

### Mounting

| | |
|---|---|
| Assembly note | AWG 20 conductor cross-section upon request |

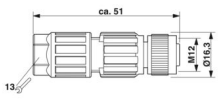
### Product properties

| | |
|---|---|
| Product type | Circular connector (cable-side) |
| Number of positions | 4 |
| No. of cable outlets | 1 |
| Shielded | no |
| Coding | A |
| Cable outlet | straight |

Insulation characteristics

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

### Dimensions

| | |
|---|---|
| Dimensional drawing |   |
| Length | 51 mm |
| Wrench size, union nut | 13 mm |

External dimensions

| | |
|---|---|
| Outside diameter | 3.5 mm ... 6 mm |

Housing

| | |
|---|---|
| Diameter housing | 16.3 mm |

### Material specifications

| | |
|---|---|
| Flammability rating according to UL 94 | V0 |
| Seal material | NBR |
| Material of grip body | PA 6 |
| Contact material | CuSn |
| Contact surface material | Ni/Au |
| Contact carrier material | TPU GF |

| | |
|---|---|
| Material for screw connection | Zinc die-cast, nickel-plated |
| Wire insulation material | PVC / PE / PP / rubber |

## Connection data

Conductor connection

| | |
|---|---|
| Connection method | Insulation displacement connection |
| Connection cross section | 0.14 mm² ... 0.34 mm² |
| Connection cross section AWG | 26 ... 22 |
| Tightening torque | 0.4 Nm (M12 knurl) |
| | 1.2 Nm (Pressure nut) |

Connection assignment

| | |
|---|---|
| Contact \| Color (signal designation) \| Contact (optional) | 1 = BN |
| | 2 = WH |
| | 3 = BU |
| | 4 = BK |

## Electrical properties

| | |
|---|---|
| Rated surge voltage | 2.5 kV |
| Contact resistance | ≤ 5 mΩ |
| Insulation resistance | ≥ 100 MΩ |
| Nominal voltage $U_N$ | 125 V AC |
| | 125 V DC |
| Nominal current $I_N$ | 4 A |

## Mechanical properties

Mechanical data

| | |
|---|---|
| Insertion/withdrawal cycles | ≥ 100 |

## Connector

Connection 1

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

## Interfaces

| | |
|---|---|
| Signal type/category | Universal |

## Cable/line

| | |
|---|---|
| External cable diameter | 3.5 mm ... 6 mm |

## Environmental and real-life conditions

Ambient conditions

| | |
|---|---|
| Degree of protection | IP65 |
| | IP67 |
| Ambient temperature (operation) (male connector/female connector) | -25 °C ... 80 °C (Plug / socket) |
| Ambient temperature (assembly) | -5 °C ... 50 °C (During assembly) |

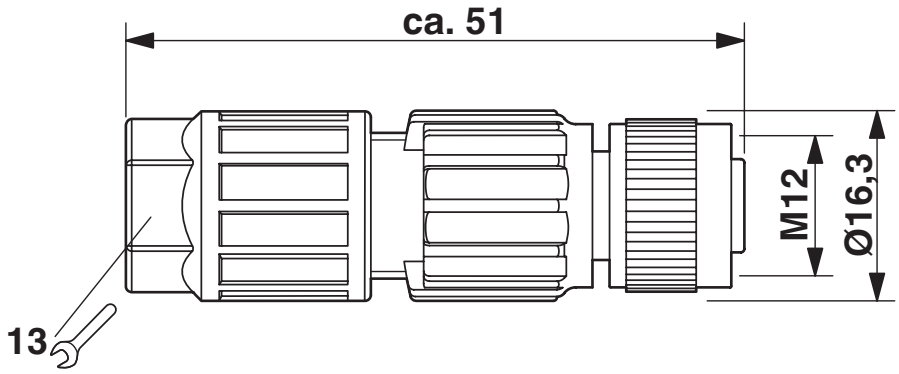
## Standards and regulations

M12

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

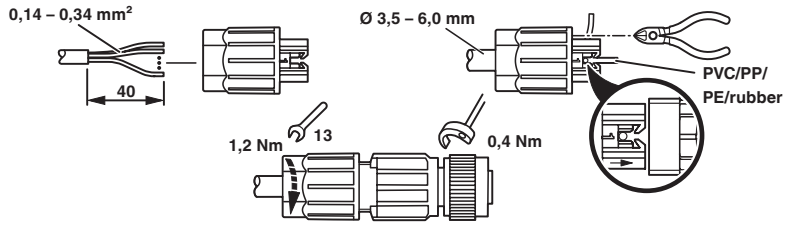
## Drawings

Dimensional drawing

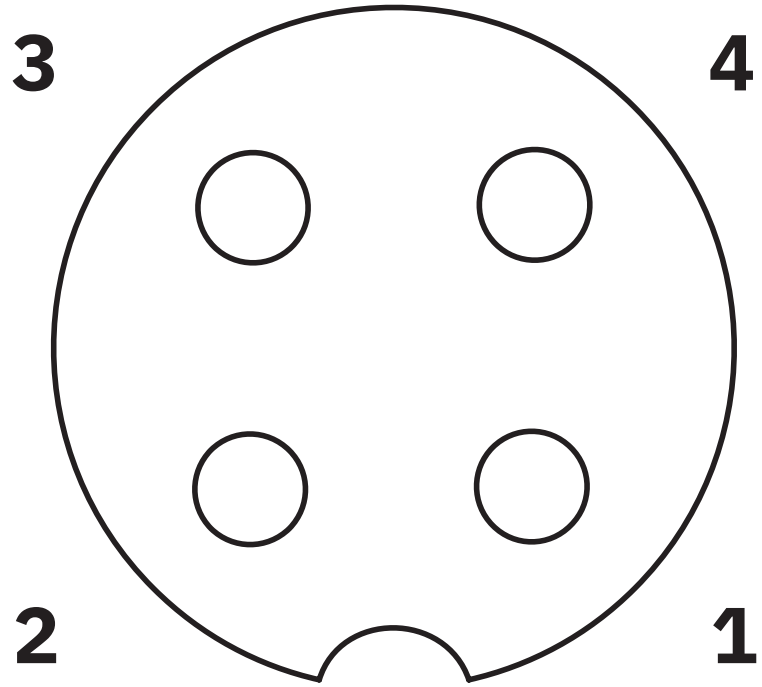



M12 x 1 socket, straight

Functional drawing



Schematic diagram




Pin assignment M12 socket, 4-pos., A-coded, view female side

## 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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