# SACC-FS-12PCON SCO - Connector

1559631

https://www.phoenixcontact.com/us/products/1559631

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Connector, Universal, 12-position, Socket straight M12 SPEEDCON, coding: A, Piercecon® fast connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 5.4 mm ... 8.2 mm

## Your advantages

- Safe use in the field, thanks to a high degree of protection
- Save time, thanks to installation with SPEEDCON fast locking system
- Piercecon® connection: maximum contact density in a connector that can be assembled
- Save space – with high-pos. connectors

## Commercial data

| | |
|---|---|
| Item number | 1559631 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | BF32 |
| Product key | AF2CGA |
| GTIN | 4046356314848 |
| Weight per piece (including packing) | 36.8 g |
| Weight per piece (excluding packing) | 35 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. |

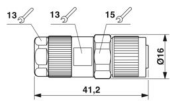
### Product properties

| | |
|---|---|
| Product type | Circular connector (cable-side) |
| Number of positions | 12 |
| No. of cable outlets | 1 |
| Shielded | no |
| Coding | A |
| Cable outlet | straight |

Insulation characteristics

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

### Dimensions

| | |
|---|---|
| Dimensional drawing |  |
| Length | 41.2 mm |
| Wrench size, union nut | 13 mm |
| Wrench size, counter nut | 15 mm |

External dimensions

| | |
|---|---|
| Outside diameter | 5.4 mm ... 8.2 mm |

Housing

| | |
|---|---|
| Diameter housing | 16 mm |

### Material specifications

| | |
|---|---|
| Flammability rating according to UL 94 | V0 |
| Material grommet GRP | FKM |
| Material of grip body | Zinc die-cast, nickel-plated |
| Contact material | CuZn |
| Contact surface material | Ni/Au |
| Contact carrier material | PA |
| Material for screw connection | Zinc die-cast, nickel-plated |

| | |
|---|---|
| Wire insulation material | PUR / PVC |

## Connection data

Conductor connection

| | |
|---|---|
| Connection method | Piercecon® fast connection |
| Connection cross section | 0.14 mm² ... 0.14 mm² (without ferrule) |
| Connection cross section AWG | 26 ... 26 (without ferrule) |
| Tightening torque | 0.4 Nm (M12 knurl) |

Connection assignment

| | |
|---|---|
| Contact \| Color (signal designation) \| Contact (optional) | 1 = BN |
| | 2 = BU |
| | 3 = WH |
| | 4 = GN |
| | 5 = PK |
| | 6 = YE |
| | 7 = BK |
| | 8 = GY |
| | 9 = RD |
| | 10 = VT |
| | 11 = GYPK |
| | 12 = RDBU |

## Electrical properties

| | |
|---|---|
| Rated surge voltage | 0.8 kV |
| Contact resistance | ≤ 5 mΩ |
| Insulation resistance | ≥ 100 MΩ |
| Nominal voltage $U_N$ | 30 V AC |
| | 30 V DC |
| Nominal current $I_N$ | 1.5 A |

## Mechanical properties

Mechanical data

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

## Connector

Connection 1

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

## Interfaces

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

## Environmental and real-life conditions

### Ambient conditions

| | |
|---|---|
| Degree of protection | IP67 |
| Ambient temperature (operation) (male connector/female connector) | -25 °C ... 85 °C (Plug / socket) |

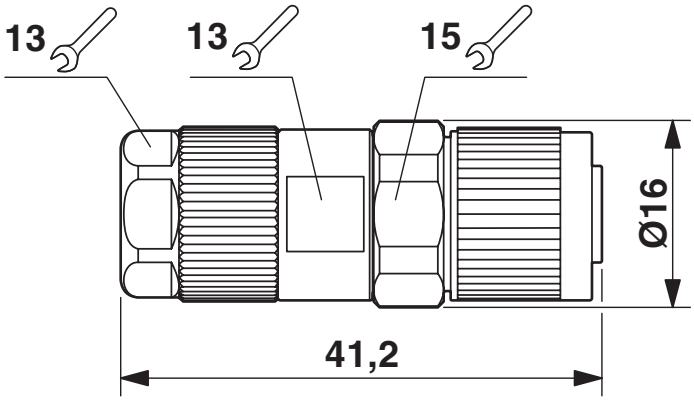
## Standards and regulations

### M12

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

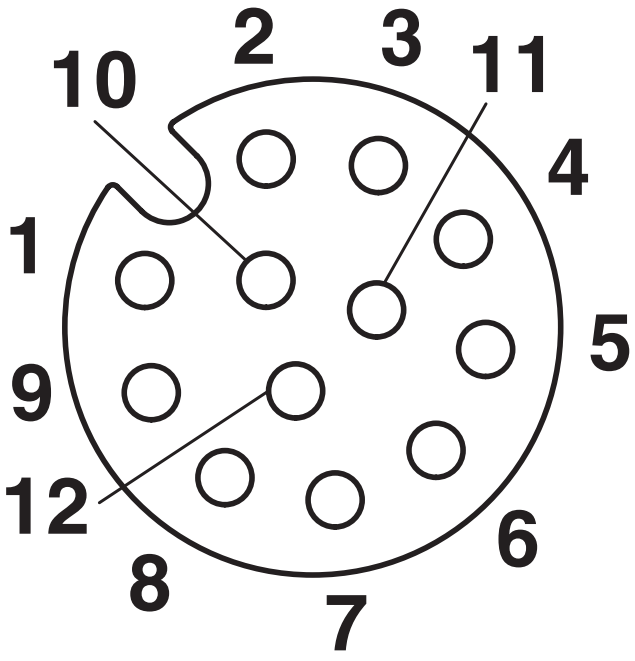
## Drawings

Dimensional drawing




M12 x 1 socket, straight

Schematic diagram




Pin assignment M12, 12-pos., female side view

## 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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