# SACC-PO12MS-5CT-CM SH - Connector

1021815

https://www.phoenixcontact.com/us/products/1021815

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Connector, Universal, 5-position, shielded, Plug straight M12 Push-pull external locking, coding: A, Crimp connection, knurl material: PA 6.6, external cable diameter 4.5 mm ... 7.5 mm, without crimp contacts

## Your advantages

- Plug and Produce: convenient and secure connection, thanks to the manufacturer-independent locking system
- Extremely compact, thanks to the small wiring space and high contact density
- Clear feedback: the connector springs back when not snapped into place correctly
- Safely shielded: reliable shield connection even under extreme mechanical strain
- Robust connection: suitable for railway applications with high shock and vibration loads

## Commercial data

| | |
|---|---|
| Item number | 1021815 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | BF34 |
| Product key | AF2CJA |
| GTIN | 4055626514642 |
| Weight per piece (including packing) | 34.531 g |
| Weight per piece (excluding packing) | 34.531 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 | Contacts can be clipped in place and unclipped without tools |

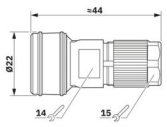
### Product properties

| | |
|---|---|
| Product type | Circular connector (cable-side) |
| Number of positions | 5 |
| No. of cable outlets | 1 |
| Shielded | yes |
| Coding | A |
| Cable outlet | straight |

Insulation characteristics

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

### Dimensions

| | |
|---|---|
| Dimensional drawing |   |
| Length | 44 mm |
| Wrench size, union nut | 15 mm |
| Wrench size, counter nut | 14 mm |

External dimensions

| | |
|---|---|
| Outside diameter | 4.5 mm ... 7.5 mm |

Housing

| | |
|---|---|
| Diameter housing | 22 mm |

### Material specifications

| | |
|---|---|
| Flammability rating according to UL 94 | V0 |
| Seal material | NBR |
| Material of grip body | Zinc die-cast, nickel-plated |
| Contact carrier material | PA 6.6 |
| Material for screw connection | PA 6.6 |

## Connection data

Conductor connection

| | |
|---|---|
| Connection method | Crimp connection |
| Connection cross section | 0.14 mm² ... 1 mm² (flexible) |
| Connection cross section AWG | 26 ... 18 (flexible) |
| Stripping length of the individual wire | 4 mm +0,5 mm |
| Tightening torque | 4 Nm (Pressure nut with coupling sleeve) |

## Electrical properties

| | |
|---|---|
| Rated surge voltage | 1.5 kV |
| Insulation resistance | ≥ 100 MΩ |
| Nominal voltage $U_N$ | 48 V AC |
| | 60 V DC |
| Nominal current $I_N$ | 4 A |

## Mechanical properties

Mechanical data

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

## Connector

Connection 1

| | |
|---|---|
| Head design | Plug |
| Head cable outlet | straight |
| Head thread type | M12 |
| Head locking type | Push-pull external locking |
| Coding | A |

## Interfaces

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

## Environmental and real-life conditions

Ambient conditions

| | |
|---|---|
| Degree of protection | IP65 |
| | IP67 |
| | IP68 |
| | IP69K |
| Ambient temperature (operation) (male connector/female connector) | -40 °C ... 85 °C (Plug / socket) |

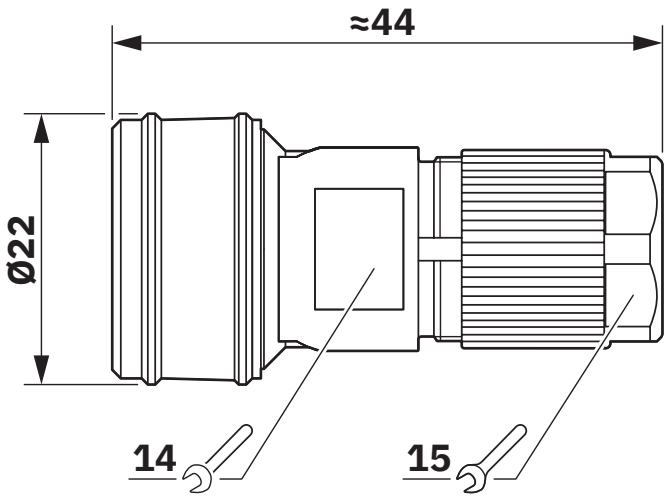
## Standards and regulations

| | |
|---|---|
| Standards/regulations | PA 6.6: Fire protection in rail vehicles - requirement sets R22, R23, R24, and R26 acc. to DIN EN 45545-2 (Risk level HL1 - HL3) |

| | |
|---|---|
| Standard designation | M12 connector |
| Standards/specifications | IEC 61076-2-101 |
| | IEC 61076-2-010 |
| Note | according to |
| Standard designation | Shock, vibration |
| Standards/specifications | EN 50155:2001 |

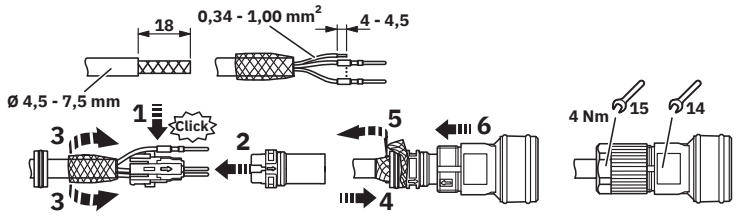
## Drawings

Dimensional drawing



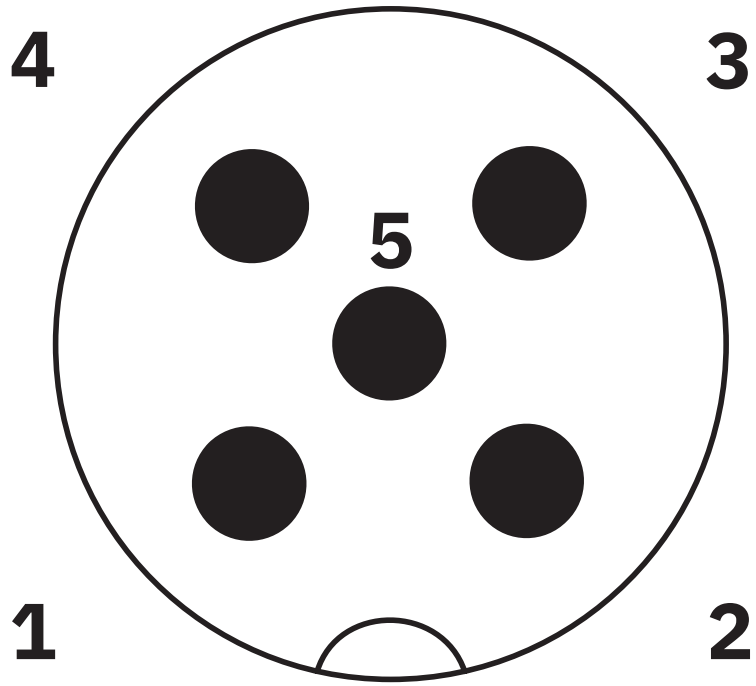

Dimensional drawing

Functional drawing




Functional drawing

Schematic diagram




M12 PUSH-PULL male pin assignment, 5-pos., pin-side view

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1021815

**cULus Recognized**
Approval ID: E221474

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | - | 4 A | 26 - 18 | - |
| for AC application only | - | 4 A | 26 - 18 | - |

## 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% |

EF3.1 Climate Change

| | |
|---|---|
| CO2e kg | 0.203 kg CO2e |

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