# SACC-M 8MR-3CON-M-SW - Connector

1407583

https://www.phoenixcontact.com/pc/products/1407583

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Connector, Universal, 3-position, Plug angled M8, coding: A, Screw connection, knurl material: Brass, nickel-plated, external cable diameter 3.5 mm ... 5 mm

## 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

## Commercial data

| | |
|---|---|
| Item number | 1407583 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Product key | AF2BAA |
| GTIN | 4046356780032 |
| Weight per piece (including packing) | 13.2 g |
| Weight per piece (excluding packing) | 13.2 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 | The wires can be connected both with ferrules (without insulation) and without ferrules. |
| | The connector pin assignment can be rotated 180° to the cable outlet |

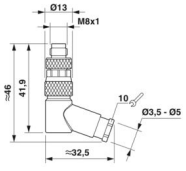
### Product properties

| | |
|---|---|
| Product type | Circular connector (cable-side) |
| Number of positions | 3 |
| No. of cable outlets | 1 |
| Shielded | no |
| Coding | A |
| Cable outlet | angled |

Insulation characteristics

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

### Dimensions

| | |
|---|---|
| Dimensional drawing |  |
| Width | 13 mm |
| Height | 32.5 mm |
| Length | 46 mm |

External dimensions

| | |
|---|---|
| Outside diameter | 3.5 mm ... 5 mm |

Housing

| | |
|---|---|
| Diameter housing | 13 mm |

### Material specifications

| | |
|---|---|
| Flammability rating according to UL 94 | HB |
| Material grommet GRP | NBR |

| | |
|---|---|
| Material of grip body | PBT |
| Contact material | CuZn |
| Contact surface material | Au |
| Contact carrier material | PA |
| Material for screw connection | Brass, nickel-plated |

## Connection data

Conductor connection

| | |
|---|---|
| Connection method | Screw connection |
| Connection cross section | 0.14 mm² ... 0.5 mm² (without ferrule) |
| | 0.14 mm² ... 0.5 mm² (with ferrule) |
| | 0.14 mm² ... 0.5 mm² (solid) |
| Connection cross section AWG | 26 ... 20 (without ferrule) |
| Stripping length of the individual wire | 4 mm |
| Tightening torque | 0.2 Nm (M8 knurl) |
| | 0.5 Nm (Connector with coupling sleeve) |
| | 0.3 Nm ... 0.4 Nm (Pressure screw for outer cable diameter 3 mm ... 4 mm) |
| | 0.8 Nm ... 1 Nm (Pressure screw in the case of external cable diameter 4 mm ... 5 mm) |
| | 0.1 Nm (Screw terminal blocks) |

## Electrical properties

| | |
|---|---|
| Rated surge voltage | 1.5 kV |
| Contact resistance | ≤ 3 mΩ |
| 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 | angled |
| Head thread type | M8 |
| 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) | -40 °C ... 85 °C (Plug / socket) |

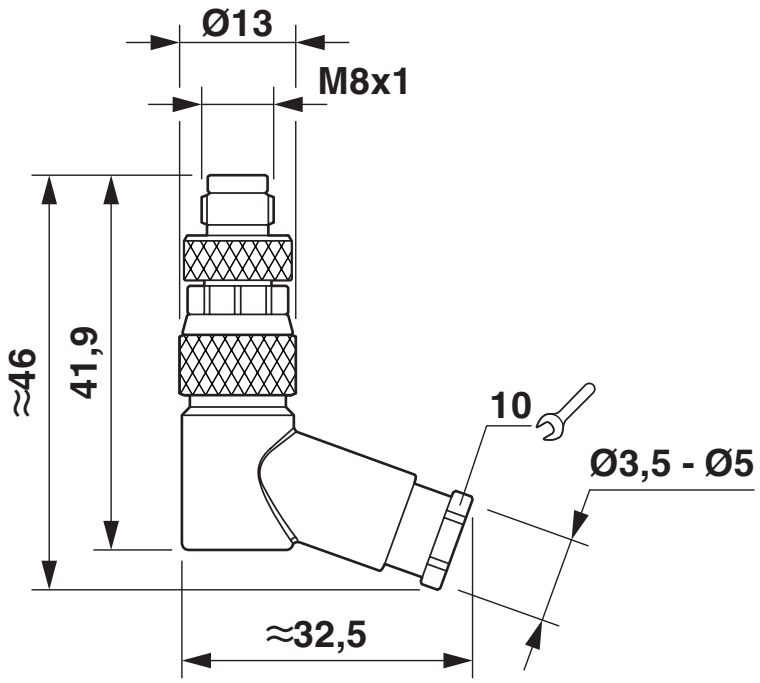
## Standards and regulations

M8

| | |
|---|---|
| Standard designation | M8 connector |
| Standards/specifications | IEC 61076-2-104 |

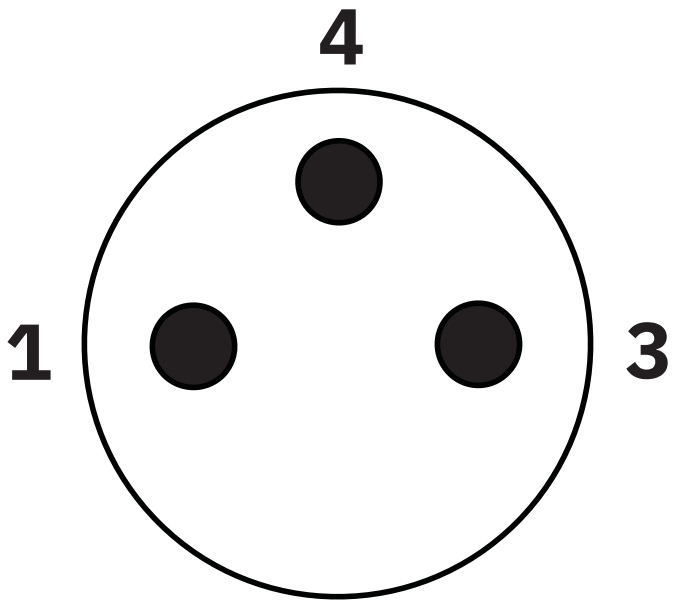
## Drawings

Dimensional drawing




Socket M8 x 1, angled

Schematic diagram




M8 plug pin assignment, 3-pos., view of pin side

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/pc/products/1407583

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

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 60 V | 4 A | - | - |

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

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 60 V | 4 A | - | - |

## 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 | cb7d12d2-a324-4ddb-b74a-84d780b7a56e |

EF3.1 Climate Change

| | |
|---|---|
| CO2e kg | 1.06 kg CO2e |

## Accessories

### PROT-M 8 FS-PA-CHAIN - Sealing cap

1430857

https://www.phoenixcontact.com/pc/products/1430857

M8 sealing cap made of plastic with fixing band for sensor cables, for M8 plugs



### SAC-4P-100,0-PUR/0,25 - Sensor/actuator cable

1501692

https://www.phoenixcontact.com/pc/products/1501692

By the meter, Sensor/actuator cable, PUR halogen-free, black-gray RAL 7021, 4-wire, color single wire: brown, white, blue, black, cable length: 100 m



## SAC-4P-100,0-PUR/0,34 - Cable reel

1501663

https://www.phoenixcontact.com/pc/products/1501663



By the meter, Cable reel, PUR halogen-free, black-gray RAL 7021, 4-wire, color single wire: brown, white, blue, black, cable length: 100 m

## TSD 02 SAC - Torque screwdriver

1208487

https://www.phoenixcontact.com/pc/products/1208487



Torque screwdriver, with preset torque of 0.2 Nm and 4 mm hexagonal drive for M8 connectors

## SACC BIT M8-D12 - Tool

1208474

https://www.phoenixcontact.com/pc/products/1208474




Nut for assembling M8 connectors with longitudinal knurl and a knurl diameter of 12 mm, for 4 mm hexagonal drive

## TSD-M 1,2NM - Torque screwdriver

1212224

https://www.phoenixcontact.com/pc/products/1212224



Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 0. 3 - 1.2 Nm

## TSD-M SAC-BIT ADAPTER - Adapter insert

1212600

https://www.phoenixcontact.com/pc/products/1212600



Adapter bit for TSD-M...torque tools, E6.3-1/4" drive with 4 mm hexagon to accommodate SAC bits


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