

# SACC-M 8FS-3QO-0,5-VA - Connector



1426314

<https://www.phoenixcontact.com/us/products/1426314>

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Connector, 3-position, Socket straight M8, coding: A, Insulation displacement connection, knurl material: Stainless steel 1.4305, external cable diameter 2.5 mm ... 5 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                          | 1426314       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | BF31          |
| Product key                          | BF2BCA        |
| GTIN                                 | 4055626457642 |
| Weight per piece (including packing) | 6.7 g         |
| Weight per piece (excluding packing) | 6 g           |
| Customs tariff number                | 85366990      |
| Country of origin                    | DE            |

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## 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  | 3                               |
| No. of cable outlets | 1                               |
| Shielded             | no                              |
| Coding               | A                               |
| Cable outlet         | straight                        |

### Data management status

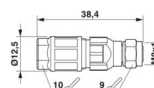
|                  |    |
|------------------|----|
| Article revision | 01 |
|------------------|----|

### Insulation characteristics

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

### Dimensions

Dimensional drawing



Length

38.8 mm

### External dimensions

|                  |                              |
|------------------|------------------------------|
| Outside diameter | 2.5 mm ... 5 mm $\pm 0.2$ mm |
|------------------|------------------------------|

### Housing

|                  |         |
|------------------|---------|
| Diameter housing | 12.5 mm |
|------------------|---------|

### Material specifications

|                                        |                        |
|----------------------------------------|------------------------|
| Flammability rating according to UL 94 | HB                     |
| 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          | Stainless steel 1.4305 |
| Wire insulation material               | PVC / PE / PP / rubber |

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## Connection data

### Conductor connection

|                              |                                              |
|------------------------------|----------------------------------------------|
| Connection method            | Insulation displacement connection           |
| Connection cross section     | 0.25 mm <sup>2</sup> ... 0.5 mm <sup>2</sup> |
| Connection cross section AWG | 24 ... 20                                    |
| Tightening torque            | 0.6 Nm (Pressure nut)                        |
|                              | 0.2 Nm (M8 knurl)                            |

## Electrical properties

|                                |          |
|--------------------------------|----------|
| Rated surge voltage            | 0.8 kV   |
| Contact resistance             | ≤ 5 mΩ   |
| Insulation resistance          | ≥ 100 MΩ |
| Nominal voltage U <sub>N</sub> | 60 V AC  |
|                                | 60 V DC  |
| Nominal current I <sub>N</sub> | 4 A      |

## Mechanical properties

### Mechanical data

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

## Connector

### Connection 1

|                   |          |
|-------------------|----------|
| Head design       | Socket   |
| Head cable outlet | straight |
| Head thread type  | M8       |
| Coding            | A        |

## Cable/line

|                         |                 |
|-------------------------|-----------------|
| External cable diameter | 2.5 mm ... 5 mm |
|-------------------------|-----------------|

## Environmental and real-life conditions

### Ambient conditions

|                                 |                                  |
|---------------------------------|----------------------------------|
| Degree of protection            | IP65                             |
|                                 | IP67                             |
|                                 | IP69K                            |
| Ambient temperature (operation) | -25 °C ... 80 °C (Plug / socket) |

## Standards and regulations

### M8

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

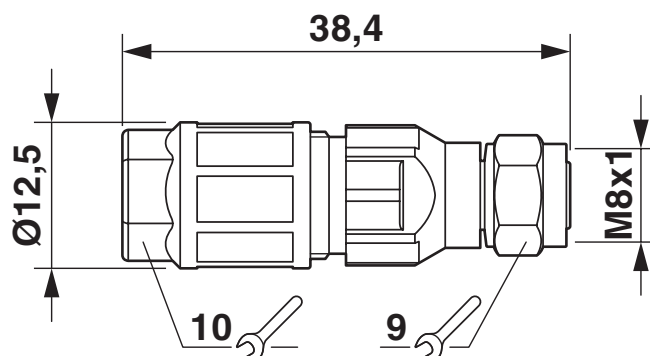
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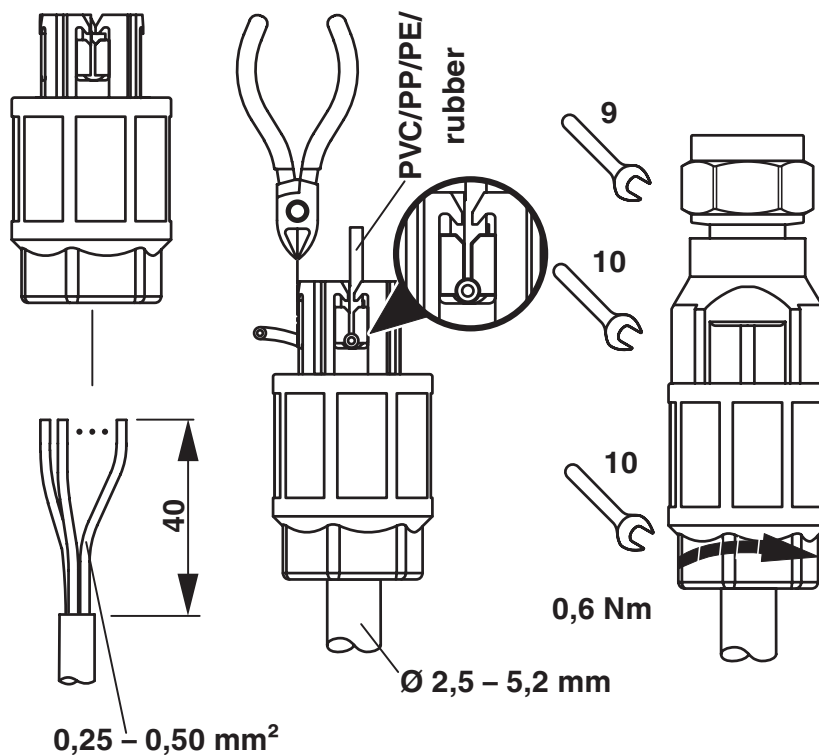
## Drawings

Dimensional drawing



Socket M8 x 1, straight

Functional drawing



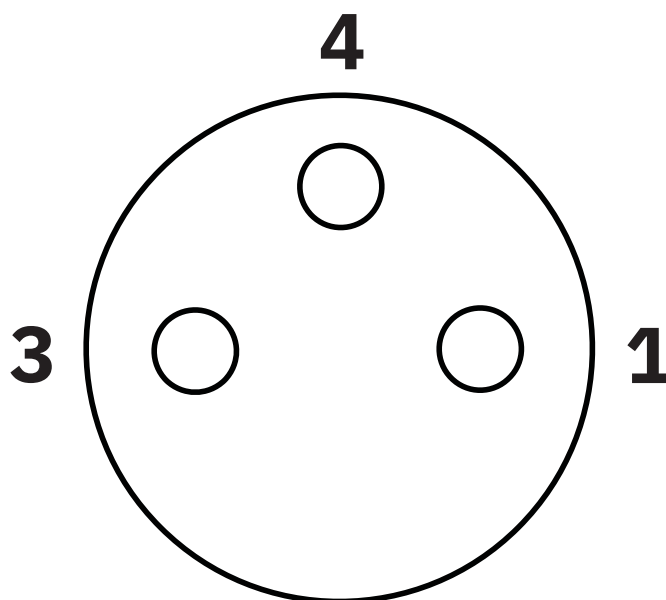
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Schematic diagram



Pin assignment of M8 socket, 3-pos., view of pin side

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## Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1426314>



**EAC**

Approval ID: RU C-DE.BL08.B.00511

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27440102 |
| ECLASS-12.0 | 27440116 |
| ECLASS-13.0 | 27440116 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC002635 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

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## 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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