

# SACC-M12FS-4QO-0,75-M - Connector



1641772

<https://www.phoenixcontact.com/us/products/1641772>

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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 4 mm ... 8 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                          | 1641772       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | BF31          |
| Product key                          | AF2CCA        |
| GTIN                                 | 4017918921859 |
| Weight per piece (including packing) | 16 g          |
| Weight per piece (excluding packing) | 14.9 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.

### Mounting

Assembly note

AWG 18 wire cross section upon request

### Product properties

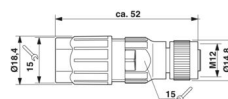
|                      |                                 |
|----------------------|---------------------------------|
| Product type         | Circular connector (cable-side) |
| Number of positions  | 4                               |
| No. of cable outlets | 1                               |
| Shielded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

### Insulation characteristics

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

### Dimensions

Dimensional drawing



|                          |       |
|--------------------------|-------|
| Length                   | 52 mm |
| Wrench size, union nut   | 15 mm |
| Wrench size, counter nut | 15 mm |

### External dimensions

|                  |               |
|------------------|---------------|
| Outside diameter | 4 mm ... 8 mm |
|------------------|---------------|

### Housing

|                  |         |
|------------------|---------|
| Diameter housing | 18.4 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 |

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|                               |                              |
|-------------------------------|------------------------------|
| Contact carrier material      | TPU                          |
| 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     | 0.34 mm <sup>2</sup> ... 0.75 mm <sup>2</sup> |
| Connection cross section AWG | 22 ... 18                                     |
| Tightening torque            | 0.4 Nm (M12 knurl)                            |
|                              | 1.5 Nm (Pressure nut)                         |

### Connection assignment

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

## Electrical properties

|                                |          |
|--------------------------------|----------|
| Rated surge voltage            | 4 kV     |
| Contact resistance             | ≤ 5 mΩ   |
| Insulation resistance          | ≥ 100 MΩ |
| Nominal voltage U <sub>N</sub> | 250 V AC |
|                                | 250 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  | M12      |
| Coding            | A        |

## Cable/line

|                         |               |
|-------------------------|---------------|
| Signal type/category    | Universal     |
| External cable diameter | 4 mm ... 8 mm |

## Environmental and real-life conditions

### Ambient conditions

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|                                                                   |                                   |
|-------------------------------------------------------------------|-----------------------------------|
| 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 |

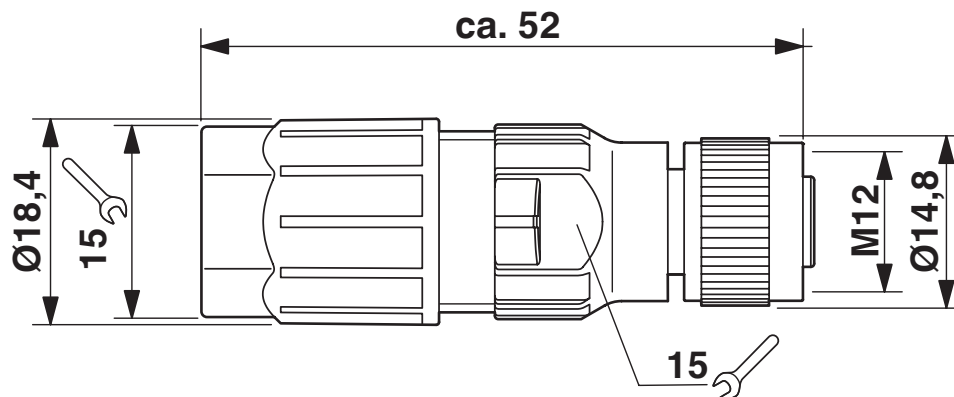
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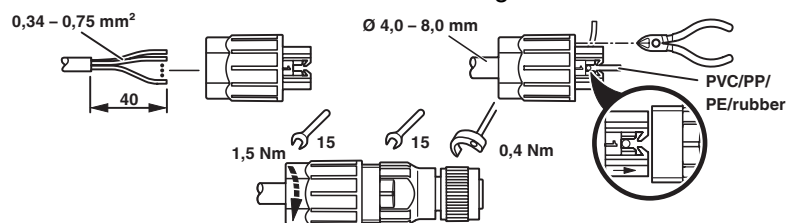
## Drawings

Dimensional drawing



M12 x 1 socket, straight

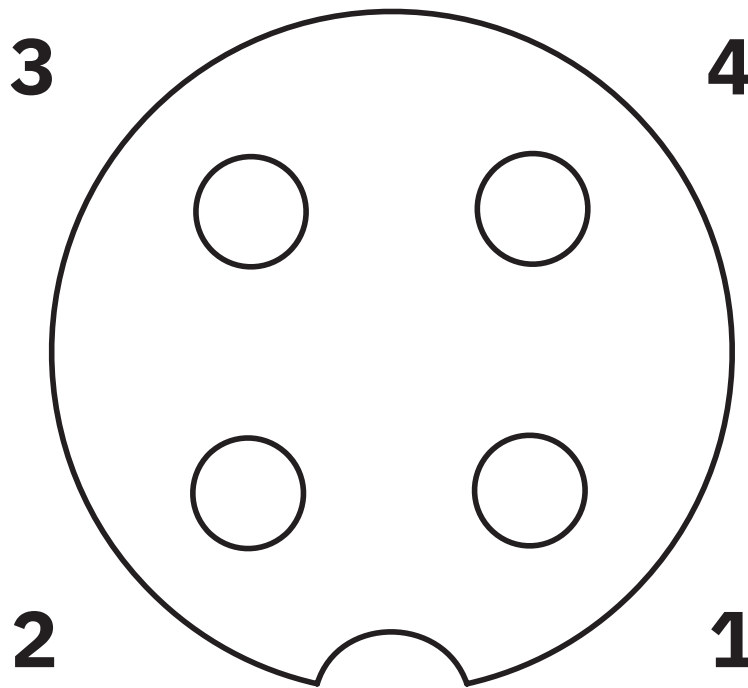
Functional drawing



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Schematic diagram



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

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## Approvals

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|  <b>cUL Recognized</b><br>Approval ID: E118976 |                                |                                |                   |                               |
|---------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------------|-------------------|-------------------------------|
|                                                                                                                                 | Nominal voltage U <sub>N</sub> | Nominal current I <sub>N</sub> | Cross section AWG | Cross section mm <sup>2</sup> |
| keine                                                                                                                           |                                |                                |                   |                               |
|                                                                                                                                 | 300 V                          | 4 A                            | -                 | -                             |

|  <b>UL Recognized</b><br>Approval ID: E118976 |                                |                                |                   |                               |
|--------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------------|-------------------|-------------------------------|
|                                                                                                                                | Nominal voltage U <sub>N</sub> | Nominal current I <sub>N</sub> | Cross section AWG | Cross section mm <sup>2</sup> |
| keine                                                                                                                          |                                |                                |                   |                               |
|                                                                                                                                | 300 V                          | 4 A                            | -                 | -                             |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27440116 |
| ECLASS-15.0 | 27440116 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | 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 |
| EF3.1 Climate Change                    |                                          |
| CO2e kg                                 | 0.196 kg CO2e                            |

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Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)