

## Connector - SACC-M12FS-4QO-0,34-M - 1641688

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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 3.5 mm ... 6 mm

### Your advantages

- ✓ Safe use in the field, thanks to a high degree of protection
- ✓ Flexible: connectors for on-site assembly
- ✓ Insulation displacement connection: innovative and time-saving assembly without stripping the single wire

RoHS

### Key Commercial Data

|              |                                                                                      |
|--------------|--------------------------------------------------------------------------------------|
| Packing unit | 1 pc                                                                                 |
| GTIN         |  |
| GTIN         | 4017918925178                                                                        |

### Technical data

#### Dimensions

|                                |                 |
|--------------------------------|-----------------|
| Wrench size, union nut         | 13 mm           |
| Diameter housing               | 16.3 mm         |
| Length                         | 51 mm           |
| External cable diameter        | 3.5 mm ... 6 mm |
| Stripping length of the sheath | 40 mm           |

#### Ambient conditions

|                                 |                                   |
|---------------------------------|-----------------------------------|
| Ambient temperature (operation) | -25 °C ... 80 °C (Plug / socket)  |
| Ambient temperature (assembly)  | -5 °C ... 50 °C (During assembly) |
| Degree of protection            | IP65                              |
|                                 | IP67                              |

#### General

|      |                                                                                                                                          |
|------|------------------------------------------------------------------------------------------------------------------------------------------|
| Note | NOTE: Observe the permissible bending radii when laying conductors, since the degree of protection may be put in jeopardy if the bending |
|------|------------------------------------------------------------------------------------------------------------------------------------------|

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## Technical data

### General

|                                                                             |                                                                                                      |
|-----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
|                                                                             | forces are too high. Alleviate mechanical loads upstream of the connector, e.g. by using cable ties. |
| Rated current at 40°C                                                       | 4 A                                                                                                  |
| Rated voltage                                                               | 125 V AC                                                                                             |
|                                                                             | 125 V DC                                                                                             |
| Number of positions                                                         | 4                                                                                                    |
| Color handle area                                                           | black                                                                                                |
| Insulation resistance                                                       | ≥ 100 MΩ                                                                                             |
| Coding                                                                      | A - standard                                                                                         |
| Standards/regulations                                                       | M12 connector according to IEC 61076-2-101                                                           |
| Signal type/category                                                        | Universal                                                                                            |
| Status display                                                              | No                                                                                                   |
| Overvoltage category                                                        | III                                                                                                  |
| Degree of pollution                                                         | 3                                                                                                    |
| Connection method                                                           | Insulation displacement connection                                                                   |
| Conductor cross section                                                     | 0.14 mm² ... 0.34 mm²                                                                                |
| Conductor cross section AWG                                                 | 26 ... 22                                                                                            |
| Wire diameter including insulation                                          | 0.7 mm ... 1.6 mm                                                                                    |
| Frequency of connections between conductors of the same cross section       | 10                                                                                                   |
| Wire insulation material                                                    | PVC / PE / PP / rubber                                                                               |
| Structure of individual litz in acc. with VDE 0295 / smallest wire diameter | Class 2-6                                                                                            |
| Insertion/withdrawal cycles                                                 | ≥ 100                                                                                                |
| Torque                                                                      | 0.4 Nm (M12 knurl)                                                                                   |
|                                                                             | 1.2 Nm (Pressure nut)                                                                                |
| Assembly instructions                                                       | AWG 20 conductor cross section upon request                                                          |

### Material

|                                        |                              |
|----------------------------------------|------------------------------|
| Flammability rating according to UL 94 | V0                           |
| Contact material                       | CuSn                         |
| Contact surface material               | Ni/Au                        |
| Contact carrier material               | TPU                          |
| Material of grip body                  | PA 6                         |
| Material, knurls                       | Zinc die-cast, nickel-plated |
| Sealing material                       | NBR                          |

### Standards and Regulations

|                                        |                                            |
|----------------------------------------|--------------------------------------------|
| Standards/specifications               | M12 connector according to IEC 61076-2-101 |
| Connection in acc. with standard       | CUL                                        |
| Flammability rating according to UL 94 | V0                                         |

### Environmental Product Compliance

|            |                                                         |
|------------|---------------------------------------------------------|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|------------|---------------------------------------------------------|

## Connector - SACC-M12FS-4QO-0,34-M - 1641688

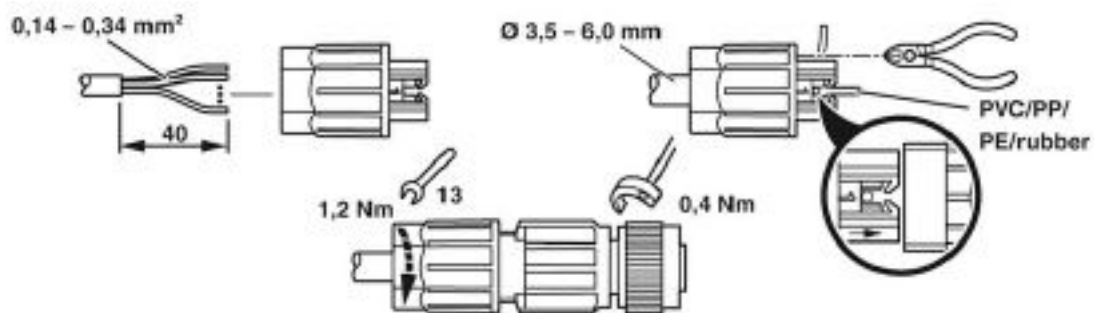
### Technical data

#### Environmental Product Compliance

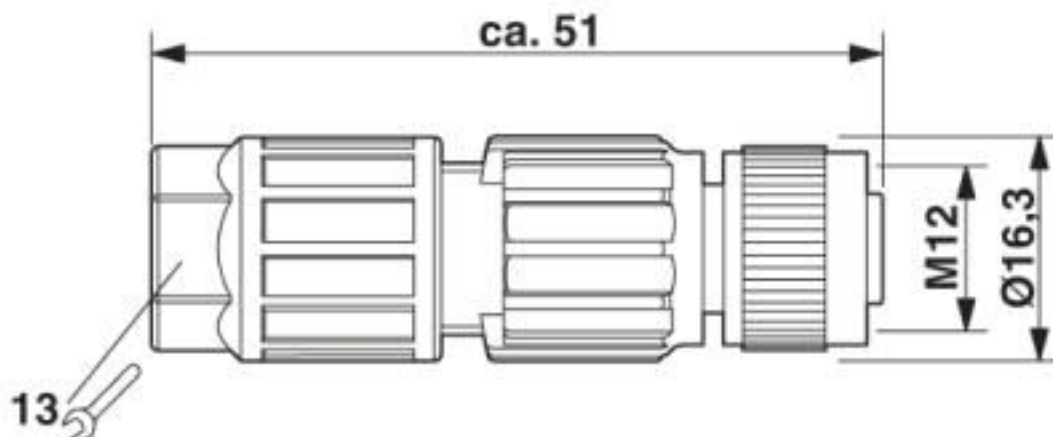
|  |                                                |
|--|------------------------------------------------|
|  | No hazardous substances above threshold values |
|--|------------------------------------------------|

### Drawings

Functional drawing



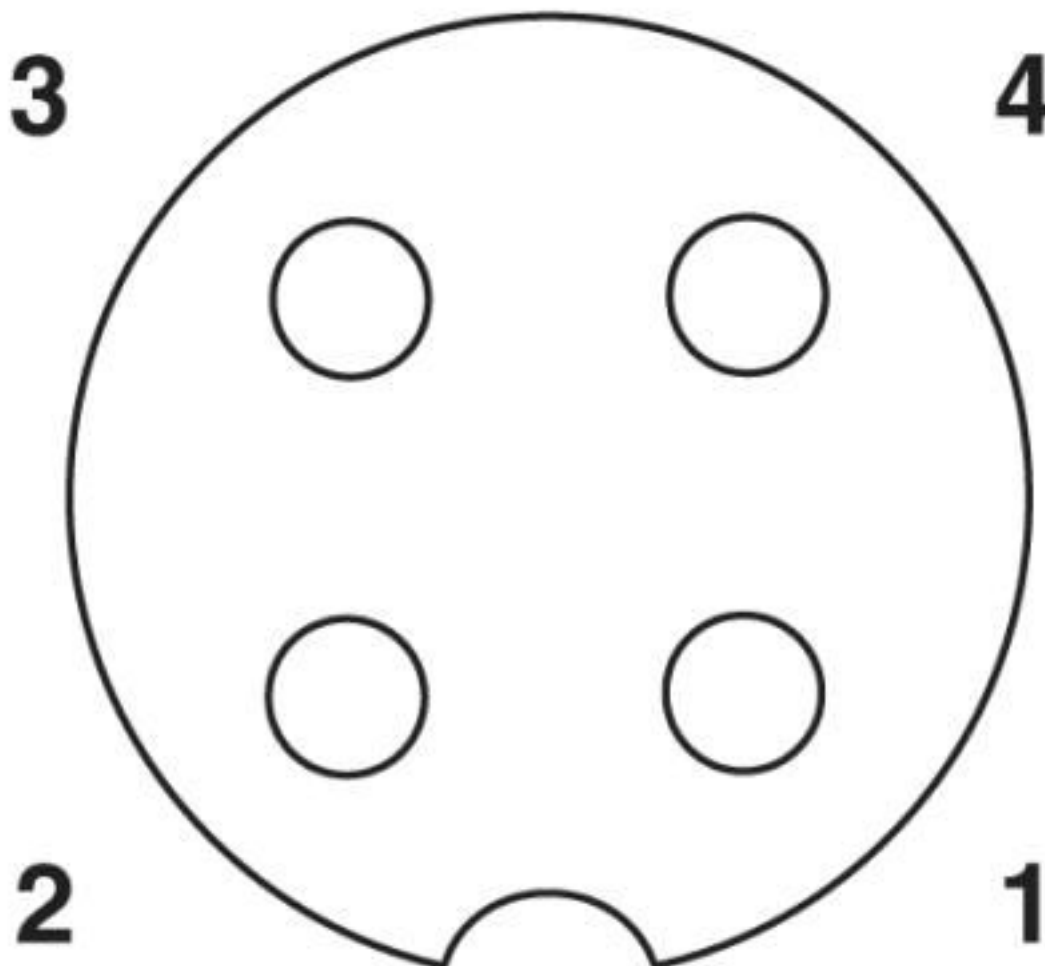
Dimensional drawing



M12 x 1 socket, straight

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Schematic diagram



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

### Classifications

eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27440102 |
| eCl@ss 4.0    | 27140800 |
| eCl@ss 4.1    | 27140800 |
| eCl@ss 5.0    | 27143400 |
| eCl@ss 5.1    | 27143400 |
| eCl@ss 6.0    | 27279200 |
| eCl@ss 7.0    | 27440104 |
| eCl@ss 8.0    | 27440104 |
| eCl@ss 9.0    | 27440102 |

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## Classifications

### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC001121 |
| ETIM 3.0 | EC002062 |
| ETIM 4.0 | EC002062 |
| ETIM 5.0 | EC002062 |
| ETIM 6.0 | EC002062 |

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 31261501 |
| UNSPSC 7.0901 | 31261501 |
| UNSPSC 11     | 31261501 |
| UNSPSC 12.01  | 31261501 |
| UNSPSC 13.2   | 39121413 |
| UNSPSC 18.0   | 39121413 |
| UNSPSC 19.0   | 39121413 |
| UNSPSC 20.0   | 39121413 |
| UNSPSC 21.0   | 39121413 |

## Approvals

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UL Recognized / cUL Recognized / EAC / EAC / cULus Recognized

#### Ex Approvals

### Approval details

|                    |                                                                                     |                                                                                                                                                       |               |
|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| UL Recognized      |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 118976 |
| Nominal voltage UN | 300 V                                                                               |                                                                                                                                                       |               |
| Nominal current IN | 4 A                                                                                 |                                                                                                                                                       |               |

|                    |                                                                                     |                                                                                                                                                       |               |
|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| cUL Recognized     |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 118976 |
| Nominal voltage UN | 300 V                                                                               |                                                                                                                                                       |               |

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### Approvals

|                                |     |
|--------------------------------|-----|
| Nominal current I <sub>N</sub> | 4 A |
|--------------------------------|-----|

|     |                                                                                   |               |
|-----|-----------------------------------------------------------------------------------|---------------|
| EAC |  | EAC-Zulassung |
|-----|-----------------------------------------------------------------------------------|---------------|

|     |                                                                                   |                          |
|-----|-----------------------------------------------------------------------------------|--------------------------|
| EAC |  | RU C-<br>DE.BL08.B.00511 |
|-----|-----------------------------------------------------------------------------------|--------------------------|

|                  |                                                                                   |
|------------------|-----------------------------------------------------------------------------------|
| cULus Recognized |  |
|------------------|-----------------------------------------------------------------------------------|

### Accessories

#### Accessories

#### Cable by the meter

Cable reel - SAC-4P-100,0-PUR/0,25 - 1501692



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

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

#### Plug for cable screw gland

Screw plug - PROT-M12 MS-PA-CHAIN - 1430899



M12 sealing cap with fixing band, for sensor cables, for free M12 sockets

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### Accessories

#### Screwdriver tools

Tool - SAC BIT M12-D15 - 1208432



Nut for assembling sensor/actuator cables with M12 connector and M12 connectors for assembly, with a knurl diameter of 15 mm, for 4 mm hexagonal drive

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Adapter insert - TSD-M SAC-BIT ADAPTER - 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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Tool - SAC BIT QUICKON-W13 - 1212033



Nut for assembling pressure nuts with 13 mm wrench size, for 4 mm hexagonal drive

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#### Torque tool

Torque screwdriver - TSD 04 SAC - 1208429



Torque screwdriver, with preset torque of 0.4 Nm and 4 mm hexagonal drive for M12 connectors

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Torque screwdriver - TSD-M 1,2NM - 1212224



Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 0.3 - 1.2 Nm

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