

**SACC-M12MS-4QO-0,34-VA**

Order No.: 1440753

<http://catalog.phoenixcontact.net/phoenix/treeViewClick.do?UID=1440753>

Sensor/actuator connector, Universal, 4-position, Plug straight M12, A-coded, Insulation displacement connection, Knurl material: High-grade steel, External cable diameter 3.5 mm ... 6 mm

**Commercial data**

|                          |                    |
|--------------------------|--------------------|
| EAN                      | 4 046356 517034    |
| sales group              | D120               |
| Pack                     | 1 Pcs.             |
| Customs tariff           | 85366990           |
| Gross weight in pieces   | 0.0141 KG          |
| Net weight per piece     | 0.0141 KG          |
| Catalog page information | Page 20 (C-4-2013) |

**Product notes**

WEEE/RoHS-compliant since:  
06/25/2009



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**Technical data****Dimensions**

|                        |                 |
|------------------------|-----------------|
| Wrench size, union nut | 13 mm           |
| External diameter      | 3.5 mm ... 6 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

|                                                                             |                                             |
|-----------------------------------------------------------------------------|---------------------------------------------|
| Rated current at 40°C                                                       | 4 A                                         |
| Rated voltage                                                               | 125 V                                       |
| Number of positions                                                         | 4                                           |
| Contact resistance                                                          | ≤ 5 mΩ                                      |
| Insulation resistance                                                       | ≥ 100 MΩ                                    |
| Coding                                                                      | A - standard                                |
| Standards/regulations                                                       | M12 connector IEC 61076-2-101               |
| Signal type/category                                                        | Universal                                   |
| Status display                                                              | No                                          |
| Surge voltage category                                                      | II                                          |
| Pollution degree                                                            | 3                                           |
| Connection method                                                           | Insulation displacement connection          |
| Conductor cross section                                                     | 0.14 mm² ... 0.34 mm²                       |
| AWG conductor cross section                                                 | 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)<br>0.8 Nm (Pressure nut) |
| Assembly instructions                                                       | AWG 20 conductor cross section upon request |

#### Material

|                                         |                           |
|-----------------------------------------|---------------------------|
| Inflammability class 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                        | High-grade steel          |
| Sealing material                        | Neoprene (Cable clamping) |

## Certificates / Approvals



Certification

GOST, GL

Certifications applied for:

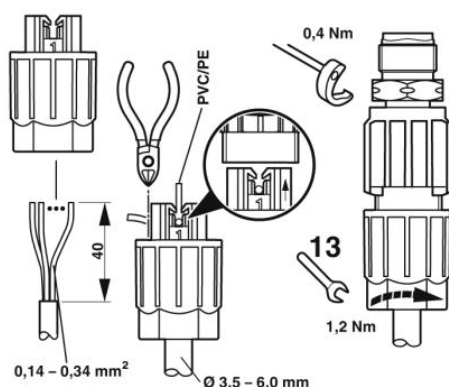
Certification Ex:

## Accessories

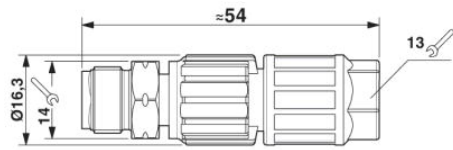
| Item         | Designation           | Description                                                                                             |
|--------------|-----------------------|---------------------------------------------------------------------------------------------------------|
| <b>Tools</b> |                       |                                                                                                         |
| 1212513      | SAC BIT M12-W14       | SAC nut, for assembling M12 connectors with hexagonal high-grade steel knurl, with 4 mm hexagonal drive |
| 1212033      | SAC BIT QUICKON-W13   | Nut for assembling QUICKON pressure nuts with 13 mm wrench size, for 4 mm hexagonal drive               |
| 1208429      | TSD 04 SAC            | Torque screwdriver, with preset torque of 0.4 Nm and 4 mm hexagonal drive for M12 connectors            |
| 1212224      | TSD-M 1,2NM           | Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 0.3 - 1.2 Nm                 |
| 1212600      | TSD-M SAC-BIT ADAPTER | Adapter bit for TSD-M...torque tools, E6.3-1/4" drive with 4 mm hexagon to accommodate SAC bits         |

## Drawings

Functional drawing

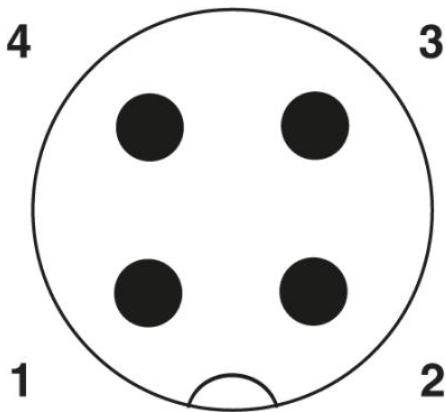


Dimensioned drawing



M12 plug, straight,  
QUICKON connection: 0.14 mm<sup>2</sup> ... 0.34 mm<sup>2</sup>

Schematic diagram



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

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