

1543045

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Connector, Universal, 5-position, Socket straight M12 SPEEDCON, coding: A, Screw connection, knurl material: Brass, nickel-plated, cable gland Pg9, external cable diameter 6 mm . .. 8 mm

### Your advantages

- · Safe use in the field, thanks to a high degree of protection
- · Save time, thanks to installation with SPEEDCON fast locking system
- · Screw connection: proven connection technology for a large selection of different conductors

#### Commercial data

| Item number                          | 1543045       |
|--------------------------------------|---------------|
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | BF30          |
| Product key                          | AF2CAA        |
| GTIN                                 | 4046356097598 |
| Weight per piece (including packing) | 27 g          |
| Weight per piece (excluding packing) | 26.5 g        |
| Customs tariff number                | 85366990      |
| Country of origin                    | DE            |



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### Technical data

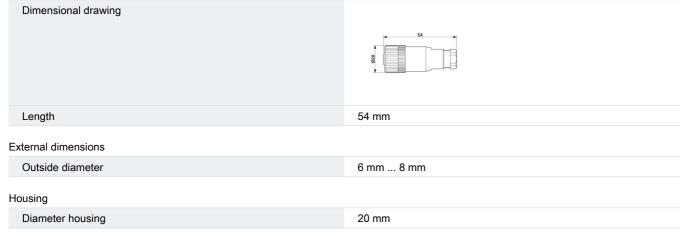
#### Notes

| 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) |  |
|----------------------------|---------------------------------|--|
| Sensor type                | Universal                       |  |
| Number of positions        | 5                               |  |
| No. of cable outlets       | 1                               |  |
| Shielded                   | no                              |  |
| Coding                     | A                               |  |
| Cable outlet               | straight                        |  |
| Pg screw connection        | Pg9                             |  |
| Insulation characteristics |                                 |  |
| Overvoltage category       | II                              |  |
| Degree of pollution        | 3                               |  |

#### Dimensions



### Material specifications

| Flammability rating according to UL 94 | НВ                   |
|--|----------------------|
| Seal material                          | NBR                  |
| Material of grip body                  | PBT                  |
| Contact material                       | CuZn                 |
| Contact surface material               | CuSnZn               |
| Contact carrier material               | PA                   |
| Material for screw connection          | Brass, nickel-plated |



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#### Connection data

#### Conductor connection

| Connection method                       | Screw connection  |
|---|---|
| Connection cross section                | 0.25 mm <sup>2</sup> 0.75 mm <sup>2</sup> (without ferrule) |
|   | 0.14 mm <sup>2</sup> 0.75 mm <sup>2</sup> (with ferrule)    |
|   | 0.25 mm <sup>2</sup> 0.75 mm <sup>2</sup> (solid)           |
| Connection cross section AWG            | 24 18 (without ferrule)                                     |
|   | 26 20 (with ferrule)  |
| Stripping length of the individual wire | 5 mm  |
| Tightening torque                       | 0.4 Nm (M12 knurl)  |
|   | 0.2 Nm (Screw terminal blocks)                              |
|   | 0.8 Nm 1 Nm (Pressure screw with sleeve housing)            |

### Electrical properties

| Rated surge voltage            | 1.5 kV   |
|--------------------------------|----------|
| Contact resistance             | ≤ 8 mΩ   |
| Insulation resistance          | ≥ 100 MΩ |
| Nominal voltage U <sub>N</sub> | 48 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  | M12      |
| Head locking type | SPEEDCON |
| Coding            | A        |

#### Cable/line

| Signal type/category                    | Universal |
|---|-----------|
| Stripping length of the individual wire | 5 mm      |

#### Environmental and real-life conditions

### Ambient conditions

| Degree of protection  | IP67                         |
|---|------------------------------|
| Ambient temperature (operation) (male connector/female connector) | -40 °C 85 °C (Plug / socket) |



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### Standards and regulations

| Standard designation     | M12 connector   |
|--------------------------|-----------------|
| Standards/specifications | IEC 61076-2-101 |

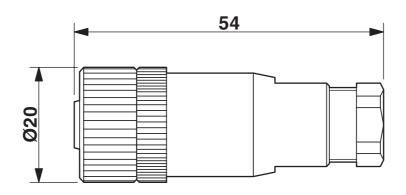


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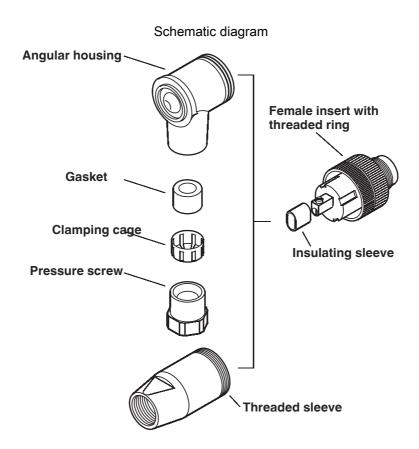


## Drawings

### Dimensional drawing



M12 x 1 socket, straight



Male/Female M12



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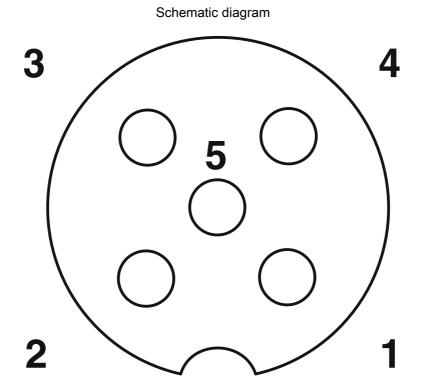
Schematic diagram

5

0
4

3

Cable connection side M12 (screw connection)



Pin assignment M12 socket, 5-pos., A-coded, socket side view



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## Classifications

#### **ECLASS**

|        | ECLASS-13.0 | 27440116 |  |  |
|--------|-------------|----------|--|--|
|        | ECLASS-15.0 | 27440116 |  |  |
| ΕΊ     | 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   |
|---|---|
| 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: n/a)  |
| SCIP                                    | b721117f-3ef1-4cbf-9556-5346c490ad43  |
| EF3.0 Climate Change                    |   |
| CO2e kg                                 | 0.863 kg CO2e   |
|   |   |

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