

# Product data sheet

## Miniature connectors

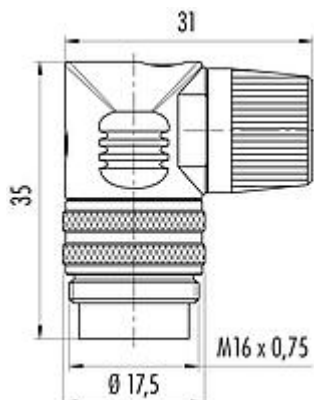


|                     |   |
|---------------------|---|
| Product description | M16 IP40 Male angled connector, Contacts: 3 DIN, 6.0-8.0 mm, unshielded, solder, IP40 |
| Area                | M16 IP40 series 682   |
| Part no.            | 09 0135 72 03   |

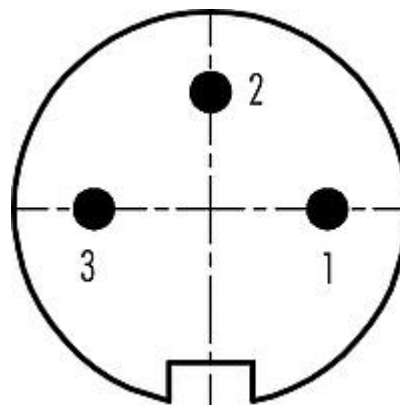
### Illustration



### Scale drawing



### Contact arrangement (Plug-in side)



You can find the assembly instructions on the next page.

### Technical data

#### General features

|                                  |                               |
|----------------------------------|-------------------------------|
| Part no.                         | 09 0135 72 03                 |
| Connector design                 | Male angled connector         |
| Version                          | Connector pin angled          |
| Connector locking system         | screw                         |
| Termination                      | solder                        |
| Degree of protection             | IP40                          |
| Cross-sectional area             | 0.75 mm <sup>2</sup> / AWG 18 |
| Cable outlet                     | 6.0-8.0 mm                    |
| Twistability                     | not rotatable                 |
| Temperature range from/to        | -40 °C / 85 °C                |
| Tightening torque pressing screw | 0.4-0.5 Nm                    |
| Mechanical operation             | > 1000 Mating cycles          |
| Weight (g)                       | 13.70                         |
| Customs tariff number            | 85369010                      |

#### Electrical parameters

|                       |                      |
|-----------------------|----------------------|
| Rated voltage         | 250 V                |
| Rated impulse voltage | 1500 V               |
| Rated current (40 °C) | 7.0 A                |
| Insulation resistance | ≥ 10 <sup>10</sup> Ω |
| Pollution degree      | 1                    |
| Overvoltage category  | I                    |

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|                           |            |
|---------------------------|------------|
| Insulating material group | III        |
| EMC compliance            | unshielded |

### Material

|                       |                           |
|-----------------------|---------------------------|
| Housing material      | PA                        |
| Contact body material | PBT (UL94 V-0)            |
| Contact material      | CuZn (brass)              |
| Contact plating       | Ag (silver)               |
| REACH SVHC            | CAS 7439-92-1 (Lead)      |
| SCIP number           | SCIP-number not available |

### Classifications

|             |             |
|-------------|-------------|
| eCl@ss 11.1 | 27-44-01-09 |
| ETIM 7.0    | EC003569    |

### Declarations of conformity

|                       |  |
|-----------------------|--|
| Low Voltage Directive | 2014/35/EU (EN 60204-1:2018;EN 60529:1991) |
|-----------------------|--|

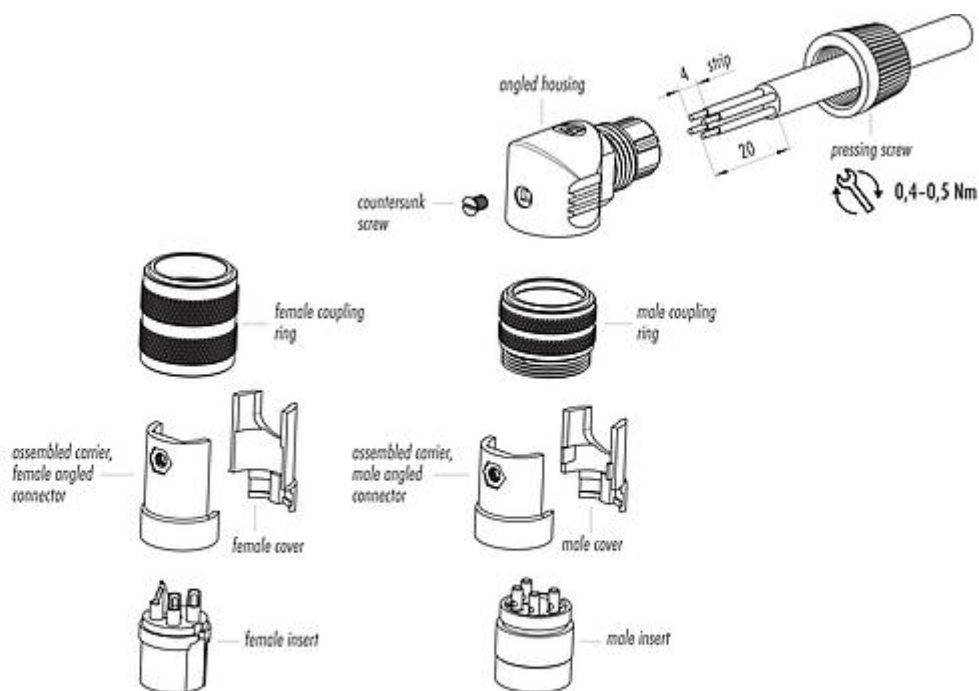
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### Assembly instructions

1. Bead angled housing and pressing screw to cable.
2. Dismantle cable to 20 mm length.
3. Strip and solder single wires.
4. Mount contact insert in carrier and cover and bead coupling ring to cable.
5. Fix angled housing with countersunk screw.



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## Security notices

The connector must not be plugged or unplugged under load. Non-observance and improper use can result in personal injury.

The connectors have been developed for applications in plant engineering, control and electrical equipment construction. The user is responsible for checking whether the connectors can also be used in other areas of application.

Connectors which are used in circuits with voltages dangerous to the touch may only be installed and used by, or under the supervision of, persons with electrical engineering training, taking into account the applicable regulations and standards.

The plug connector is not suitable for mains voltages Please observe the pollution degree and the overvoltage category. For further information, please refer to the download center "Technical Information".

To lock the cable connector with the device connector, the threaded ring is tightened "hand-tight" (approx. 50 cNm).