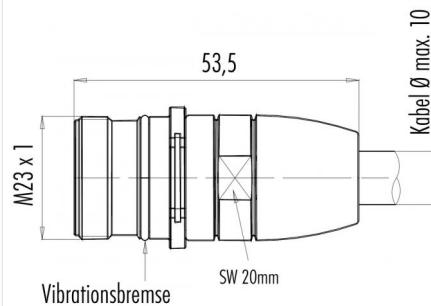


| | |
|---------------------|--|
| Product description | M23 female cable connector, Contacts: 16, 6.0 - 10.0 mm, shieldable, solder, IP67 |
| Area | M23 series 623 |
| Order number | 99 4630 00 16 |

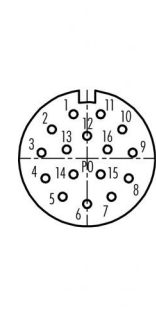
Illustration



Scale drawing



Contact arrangement (Plug-in side)



| | X | Y |
|----|-------|-------|
| 1 | -1,70 | 5,50 |
| 2 | -4,40 | 3,60 |
| 3 | -5,70 | 0,70 |
| 4 | -5,20 | -2,50 |
| 5 | -3,05 | -4,80 |
| 6 | 0,00 | -5,70 |
| 7 | 3,05 | -4,80 |
| 8 | 5,20 | -2,50 |
| 9 | 5,70 | 0,70 |
| 10 | 4,40 | 3,60 |
| 11 | 1,70 | 5,50 |
| 12 | 0,00 | 2,80 |
| 13 | -2,55 | 1,10 |
| 14 | -1,70 | -2,00 |
| 15 | 1,70 | -2,00 |
| 16 | 2,55 | 1,10 |

You can find the assembly instructions on the next page.

Technical data

General values

| | |
|--------------------------|---------------------------|
| Connector design | female cable connector |
| Connector locking system | screw |
| Termination | solder |
| Arrangement of contacts | clockwise |
| Wire gauge (mm) | max. 1.00 mm ² |
| Wire gauge (AWG) | max. 17 |
| Cable outlet | 6.0 - 10.0 mm |
| Upper limit temperature | 125 °C |
| Lower limit temperature | - 20 °C |
| Customs tariff number | 85369010 |
| Packaging Unit | 20 |

Electrical values

| | |
|---------------------------|----------------------|
| Rated current (40 °C) | 8 A |
| Rated voltage | 150 V |
| Rated impulse voltage | 1500 V |
| Pollution degree | 3 |
| Overvoltage category | II |
| Insulating material group | III |
| Insulation resistance | ≥ 10 ¹⁰ Ω |
| EMC compliance | shieldable |
| Degree of protection | IP67 |
| Mechanical operation | > 50 Mating cycles |

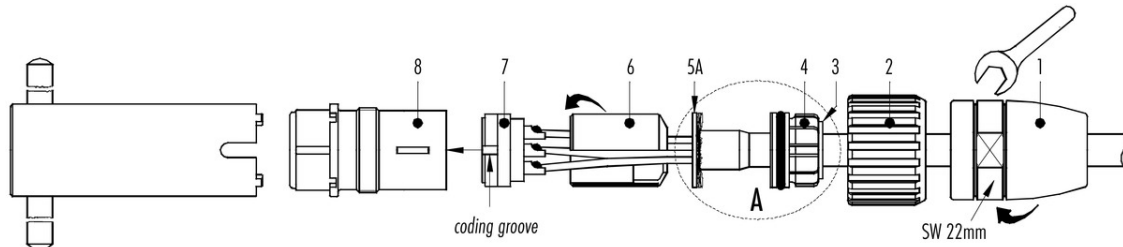
Material

| | |
|-----------------------|----------------------|
| Contact material | CuSn (bronze) |
| Contact plating | Au (gold) |
| Contact body material | PBT/PA66 |
| REACH SVHC | CAS 7439-92-1 (Lead) |

Product description **M23 female cable connector, Contacts: 16, 6.0 - 10.0 mm, shieldable, solder, IP67**

Area **M23 series 623**
 Order number **99 4630 00 16**

Assembly instructions / Panel cut-out



- Push the adapter (1), the coupling nut (2) and the sealing ring (4) with the gasket (3) onto the cable.
- Strip the cable coating by 23 mm.
- Detail A: Push back the shielding braid so it stands out at 90°. With a rotating motion, push the shielding braid (5A) over the foil or cotton braid and under the shielding braid. Cut the shielding braid and flush with the external diameter of the shielded sleeve (5A).
- Trim foil, filler and inner insulation.
- Strip the single wires by 3.5 mm, twist and tin.
- Solder the single wires to the contacts.
- Insert the distance shell (6).

- Guide the insert (7) and distance shell (6) into the insert sleeve (8), mind that the desired coding groove of the insert (7) is pushed into the coding bar.
- Press in the cable with the shield and sealing unit.
- Screw the adapter (1) as tight as possible.

Please note: torque for clamping screw for contact insert (7) with screw contacts:

- max. 0.1 Nm for screw contacts with mating dia. 1 mm
- max. 0.2 Nm for screw contacts with mating dia. 2 mm

| | |
|---------------------|--|
| Product description | M23 female cable connector, Contacts: 16, 6.0 - 10.0 mm, shieldable, solder, IP67 |
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Security notices

The connector must not be connected or separated under load. Non-observance and incorrect use can result in personal injury.

The connectors are designed for use in plant, control system and electrical equipment. The end user is responsible for checking whether the connectors are suitable for use in other applications.

Connectors used in electrical circuits containing hazardous life parts must only be assembled and used by or under the supervision of persons with the requisite electrotechnical training, taking the applicable regulations and standards into account.

Connectors with degree of protection IP 67 and IP 68 are not suitable for use under water. When used outdoors, the connectors must be separately protected against corrosion. For further information about IP degrees of protection refer to 'Technical support' in the Download Centre.

To lock the cable connector to the equipment connector, the threaded ring is tightened until it is 'finger-tight' (approx. 50 cNm).