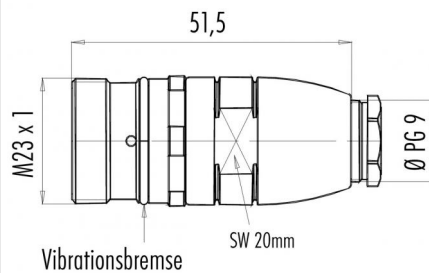


| | |
|---------------------|--|
| Product description | M23 coupling socket, Contacts: 12, 6.0 - 10.0 mm, shielding is not possible, solder, IP67 |
| Area | M23 series 623 |
| Order number | 99 4616 00 12 |

Illustration



Scale drawing



Contact arrangement (Plug-in side)

| | X | Y |
|----|-------|-------|
| 1 | -3,60 | 4,30 |
| 2 | -5,55 | 1,00 |
| 3 | -4,90 | -2,80 |
| 4 | -1,90 | -5,30 |
| 5 | 1,90 | -5,30 |
| 6 | 4,90 | -2,80 |
| 7 | 5,55 | 1,00 |
| 8 | 3,60 | 4,30 |
| 9 | 0,00 | 4,50 |
| 10 | -1,90 | 1,00 |
| 11 | 0,00 | -2,20 |
| 12 | 1,90 | 1,00 |

You can find the assembly instructions on the next page.

Technical data

General values

| | |
|--------------------------|---------------------------|
| Connector design | coupling socket |
| 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

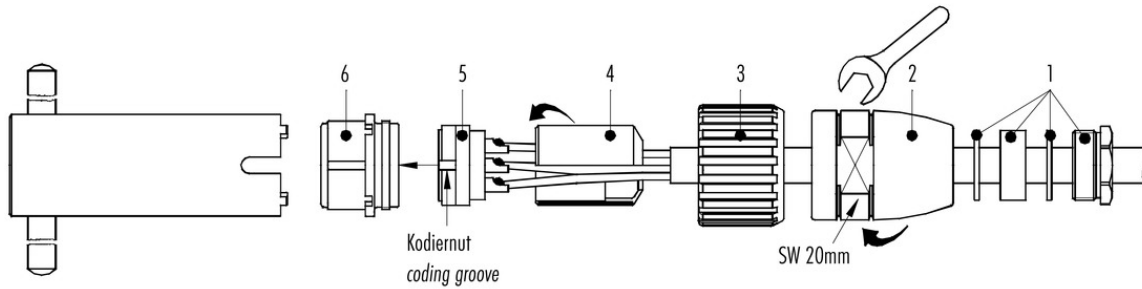
| | |
|---------------------------|---------------------------|
| Rated current (40 °C) | 8 A |
| Rated voltage | 150 V |
| Rated impulse voltage | 1500 V |
| Pollution degree | 3 |
| Overvoltage category | II |
| Insulating material group | III |
| Insulation resistance | ≥ 10 ¹⁰ Ω |
| EMC compliance | shielding is not possible |
| 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) |

| | |
|---------------------|--|
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Assembly instructions / Panel cut-out



- Push the cable screw connection (1), adapter (2) and coupling nut (3) onto the cable.
- Strip the cable coating by 20 mm.
- 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 (4).
- Guide the insert (5) and distance shell (4) into the insert ring (6), mind that the desired coding groove of the insert (6) is pushed into the coding bar.

- Screw the adapter (2) as tight as possible.
- Screw the cable gland (1) as tight as possible.

Please note: torque for clamping screw for contact insert (5) 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

| | |
|---------------------|--|
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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).