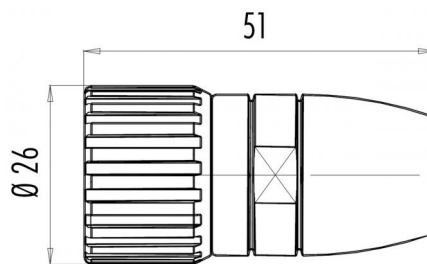


Product description	<b>M23 female cable connector, Contacts: 6, 6.0 - 10.0 mm, shieldable, solder, IP67</b>
Area	<b>M23 series 623</b>
Order number	<b>99 4646 00 06</b>

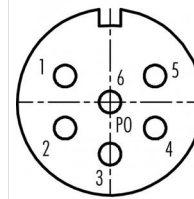
### Illustration



### Scale drawing



### Contact arrangement (Plug-in side)



	X	Y
1	-4,13	2,38
2	-4,13	-2,38
3	0,00	-4,75
4	4,13	-2,38
5	4,13	2,38
6	0,00	0,00

**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)	2.50 mm <sup>2</sup>
Wire gauge (AWG)	14
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

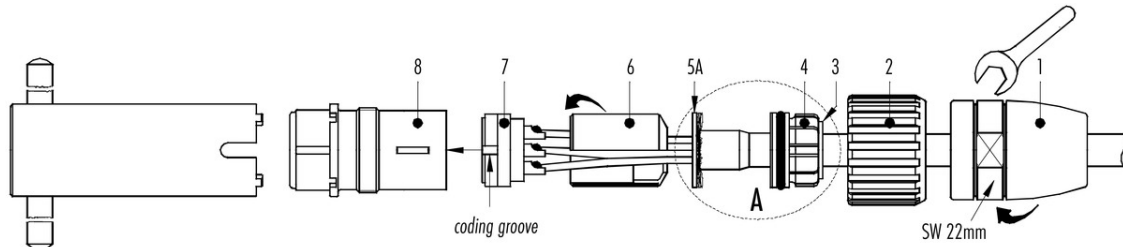
Rated current (40 °C)	20 A
Rated voltage	300 V
Rated impulse voltage	2500 V
Pollution degree	3
Overvoltage category	II
Insulating material group	III
Insulation resistance	≥ 10 <sup>10</sup> Ω
EMC compliance	shieldable
Degree of protection	IP67
Mechanical operation	> 50 Mating cycles

### Material

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

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### 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

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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).