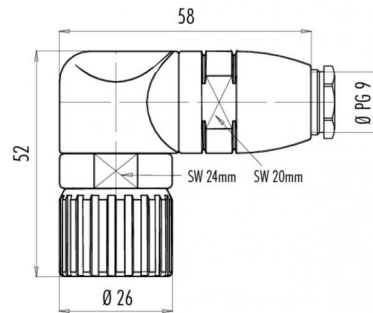


Product description **M23 female angled connector, Contacts: 16, 6.0 - 10.0 mm, shielding is not possible, solder, IP67**  
 Area **M23 series 623**  
 Order number **99 4610 70 16**

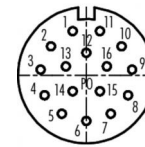
### Illustration



### Scale drawing



### Contact arrangement



	X	Y
1	-1,70	5,50
2	-4,40	3,60
3	-5,70	0,70
4	-5,70	-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 angled connector  
 Connector locking system screw  
 Termination solder  
 Arrangement of contacts clockwise  
 Wire gauge (mm) 1.00 mm<sup>2</sup>  
 Wire gauge (AWG) 17  
 Cable outlet 6.0 - 10.0 mm  
 Upper limit temperature 125 °C  
 Lower limit temperature - 20 °C  
 Customs tariff number 85369010  
 Packaging Unit 8

### Electrical values

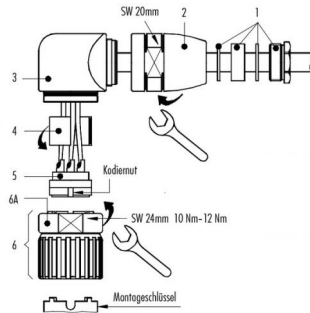
Rated current (40 °C) 8 A  
 Rated voltage 150 V  
 Rated impulse voltage 1500 V  
 Pollution degree 3  
 Overvoltage category II  
 Insulating material group III  
 Insulation resistance  $\geq 10^{10} \Omega$   
 EMC compliance shielding is not possible  
 Degree of protection IP67  
 Mechanical operation > 50 Mating cycles

### Material

Contact material CuSn (bronze)  
 Contact plating Au (gold)  
 Contact body material PBT/PA66

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### Assembly instructions / Panel cut-out



- Kabelverschraubung Pos. 1, Adapter Pos. 2 und Winkelkörper Pos. 3 auf des Kabel schieben.
- Kabel-Außenmantel 30 mm abisolieren.
- Folie, Füller und innere Isolierungen abschneiden.
- Litzen 3,5 mm abisolieren, verdrehen und verzinnen.
- Litzen an Kontakte löten, crümpen oder schrauben.
- Distanzhülse Pos. 4 einfügen.
- Einsatz Pos. 5 und Distanzhülse Pos. 4 in Einheit Pos. 6 einführen. Hierbei ist zu beachten, daß die gewünschte Kodiermutter des Einsatzes Pos. 5 in den Kodiersteg eingeführt wird.
- Gesamte Einheit in Winkelkörper einführen (Achtung: acht Kodiermöglichkeiten) und mit Mutter Pos. 6A sichern (Anzugsdrehmoment: 10 Nm bis 12 Nm).
- Adapter Pos. 2 Festschrauben auf Anschlag.
- Kabelverschraubung Pos. 1 Festschrauben.

Anzugsdrehmoment für Klemmschraube Kontakteinsatz Pos. 5 mit Schraubkontakten beachten:

- max. 0,1 Nm für Schraubkontakte Steckdurchmesser 1 mm
- max. 0,2 Nm für Schraubkontakte Steckdurchmesser 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).