

Product sheet

Output connector



Product	Contacts: 16, Female angled connector, right-turning (the pin and socket insert counter-rotate in right and left turning models)	Area	M23 Power Series 623
Pole	16	Article number	99 4610 70 16

Illustration	Scale drawing	Contact Arrangement																																																			
		<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th></th> <th>X</th> <th>Y</th> </tr> </thead> <tbody> <tr><td>1</td><td>-1,70</td><td>5,50</td></tr> <tr><td>2</td><td>-4,40</td><td>3,60</td></tr> <tr><td>3</td><td>-5,70</td><td>0,70</td></tr> <tr><td>4</td><td>-5,20</td><td>-2,50</td></tr> <tr><td>5</td><td>-3,05</td><td>-4,80</td></tr> <tr><td>6</td><td>0,00</td><td>-5,70</td></tr> <tr><td>7</td><td>3,05</td><td>-4,80</td></tr> <tr><td>8</td><td>5,20</td><td>-2,50</td></tr> <tr><td>9</td><td>5,70</td><td>0,70</td></tr> <tr><td>10</td><td>4,40</td><td>3,60</td></tr> <tr><td>11</td><td>1,70</td><td>5,50</td></tr> <tr><td>12</td><td>0,00</td><td>2,80</td></tr> <tr><td>13</td><td>-2,55</td><td>1,10</td></tr> <tr><td>14</td><td>-1,70</td><td>-2,00</td></tr> <tr><td>15</td><td>1,70</td><td>-2,00</td></tr> <tr><td>16</td><td>2,55</td><td>1,10</td></tr> </tbody> </table>		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
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You can find the assembly instruction on the next page.

Technical data

Common values

Connector Design	Female angled connector
Connector locking system	screw
Termination	Solder
Wire gauge (mm)	1.00 mm ²
Wire gauge (AWG)	18
Cable outlet	6 - 10 mm
Upper temperature	125 °C
Lower temperature	-20 °C

Electrical values

Rated voltage	150 V
Rated impulse voltage	1500 V
Pollution degree	3
Overvoltage category	II
Material group	III
Rated current (40°C)	8 A
Volume resistivity	≤ 3 mΩ
EMV compliance	not shielded
Degree of protection	IP67
Mechanical operation	> 50 mating cycles

Material

Material of contact	CuSn (Bronze)
Contact plating	Au (Gold)
Material of contact body	PBT/PA66
Material of housing	CuZn (Brass nickel-plated)

Contacts: 16, Female angled connector, right-turning

Product

Contacts: 16, Female angled connector, right-turning (the pin and socket insert counter-rotate in right and left turning models)

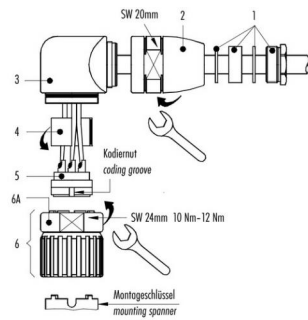
Area
Article number

**M23 Power Series 623
99 4610 70 16**

Pole

16

Installation instructions / Mounting cutout



- Kabelverschraubung Pos. 1, Adapter Pos. 2 und Winkelkörper Pos. 3 auf das 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, crimpen 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 Kodelnute des Einsatzes Pos. 5 in den Kodelsteg eingeführt wird.
- Gesamte Einheit in Winkelkörper einführen (Achtung: acht Kodelmöglichkeiten) 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

- Push the cable screw connection (1), adapter (2) and angled housing (3) onto the cable.
- Strip the cable coating by 30 mm.
- Trim foil, filler and inner insulation.
- Strip the single wires by 3.5 mm, twist and tin.
- Solder, crimp or screw the single wires to the contacts.
- Insert the distance shell (4).
- Guide the insert (5) and distance shell (4) into the unit (6), mind that the desired coding groove of the insert (5) is pushed into the coding bar.
- Insert the entire unit into the angle housing (Attention: eight coding options) and secure with nut (6A) (torque: 10 Nm up to 12 Nm).
- 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