

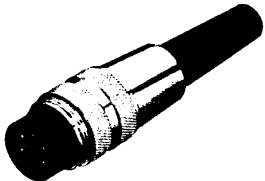
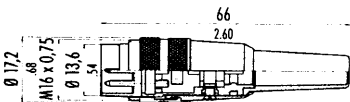
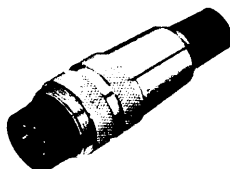
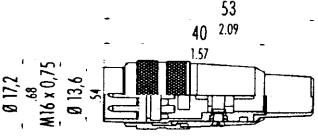
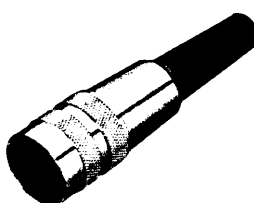
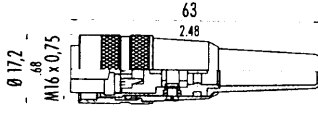
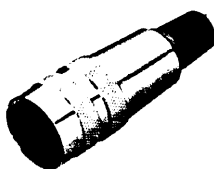
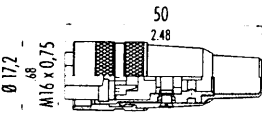
Miniatur Rundsteckverbinder Serie 680
Miniature circular connectors series 680
Technische Daten ¹⁾
Specifications ¹⁾

Allgemeine Kennwerte	General Characteristics														
Polzahl	Number of contacts	2	3 DIN	4	5	5 DIN	6 DIN	7	7 DIN	8 DIN	12	14	16	19	24
Verriegelung	Locking system	schrauben / screw													
Anschlussart	Termination	löten, tauchlöten / solder, dip solder													
Anschlussquerschnitt in mm ²	Wire gauge in mm ²	max. 0,75					max. 0,25					0,14			
Anschlussquerschnitt in AWG	Wire gauge in AWG	max. 20					max. 24					26			
Kabeldurchlass	Cable outlet	3 - 6 mm (.12 - .24) / 6 - 8 mm (.24 - .32)													
Schutzart Gehäuse	Shell protection	IP 40													
Mechanische Lebensdauer	Mechanical operation	> 500 Steckzyklen / > 500 mating cycles													
Obere Grenztemperatur	Upper temperature	+ 85 °C (+ 185 °F)													
Untere Grenztemperatur	Lower temperature	- 40 °C (- 40 °F)													
Gewicht Kabelsteckverbinder	Weight cable connector	~ 21 g													
Gewicht Flanschsteckverbinder	Weight socket	~ 12 g													
Elektrische Kennwerte	Electrical Characteristics														
Bemessungsspannung	Rated voltage	250 V		60 V		125 V				60 V					
Bemessungsstoßspannung	Rated impulse voltage	1500 V		500 V		800 V				500 V					
Verschmutzungsgrad	Pollution degree	1													
Überspannungskategorie	Overvoltage categorie	I													
Isolierstoffgruppe	Material group	III													
Prüfstoßspannung	Test voltage	1750 V		550 V		910 V				550 V					
Bemessungsstrom (40 °C)	Rated current (40 °C)	7 A		6 A		5 A				3 A		1 A			
Durchgangswiderstand	Contact resistance	≤ 5 mΩ										≤ 3 mΩ			
Isolationswiderstand	Insulation resistance	≥ 10 ¹⁰ Ω													
Werkstoffe	Materials														
Kontaktstift	Pin contact	CuZn (Messing/brass)													
Kontaktbuchse	Socket contact	CuSn (Bronze/bronze)													
Kontaktoberfläche	Contact plating	Ag (Silber/silver) / Au (Gold/gold)										Au (Gold/gold)			
Steckerkörper	Male insert	PBT (UL 94 V-0)													
Buchsenkörper	Female Insert	PBT (UL 94 V-0)													
Gehäuse Kabelstecker	Housing cable connector	PA 66 (UL 94 HB)													
Verriegelungsring	Ring nut	Messing, vernickelt/brass, nickel plated													
Flanschgehäuse	Socket	Zink-Druckguss, vernickelt/zinc diecasting, nickel plated													

¹⁾ Normen und Prüfbedingungen für diese Angaben siehe Seite TI-16. / Standards and test parameters for this data see page TI-16.


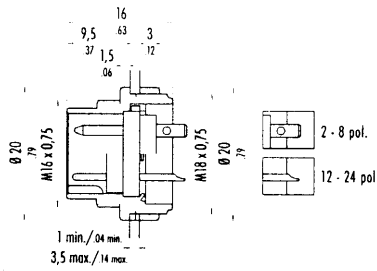

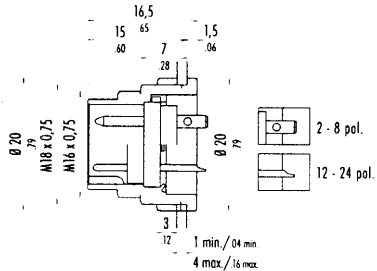

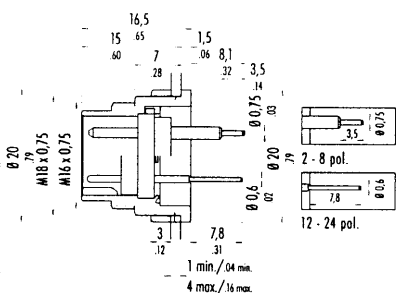

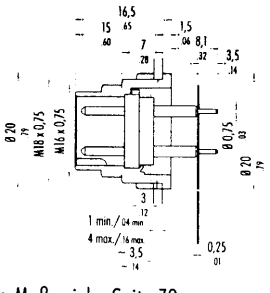
Miniatur Rundsteckverbinder Serie 680 Miniature circular connectors series 680

Kabelsteckverbinder Cable connectors

Bezeichnung – Abbildung Description – Figure	Maßzeichnung Drawing	Polzahl Contacts	Bestell-Nr./Ordering-No.	
			versilberte Kontakte silver plated contacts	vergoldete Kontakte gold plated contacts
Kabelstecker Kabeldurchlass 3 - 6 mm <i>Cable connector</i> <i>cable outlet 3 - 6 mm (.12 - .24 in.)</i> 		2	09-0301-00-02	09-0301-09-02
		3 DIN	09-0305-00-03	09-0305-09-03
		4	09-0309-00-04	09-0309-09-04
		5	09-0313-00-05	09-0313-09-05
		5 (Stereo)	09-0317-00-05	09-0317-09-05
		6 DIN	09-0321-00-06	09-0321-09-06
		7	09-0325-00-07	09-0325-09-07
		7 DIN	09-1581-00-07	–
		8 DIN	09-0571-00-08	09-0571-09-08
		12	–	09-0329-00-12
		14	–	09-0341-00-14
		16	–	09-0337-00-16
		19	–	09-0343-00-19
		24	–	–
Kabelstecker Kabeldurchlass 6 - 8 mm <i>Male cable connector</i> <i>cable outlet 6 - 8 mm (.24 - .32 in.)</i> 		2	09-0301-02-02	09-0301-92-02
		3 DIN	09-0305-02-03	09-0305-92-03
		4	09-0309-02-04	09-0309-92-04
		5	09-0313-02-05	09-0313-92-05
		5 (Stereo)	09-0317-02-05	09-0317-92-05
		6 DIN	09-0321-02-06	09-0321-92-06
		7	09-0325-02-07	09-0325-92-07
		7 DIN	–	–
		8 DIN	09-0571-02-08	09-0571-92-08
		12	–	09-0329-02-12
		14	–	09-0341-02-14
		16	–	09-0337-02-16
		19	–	09-0343-02-19
		24	–	09-0345-02-24
Kabeldose Kabeldurchlass 3 - 6 mm <i>Female cable connector</i> <i>cable outlet 3 - 6 mm (.12 - .24 in.)</i> 		2	09-0302-00-02	09-0302-09-02
		3 DIN	09-0306-00-03	09-0302-09-02
		4	09-0310-00-04	09-0310-09-04
		5	09-0314-00-05	09-0314-09-05
		5 (Stereo)	09-0318-00-05	09-0318-09-05
		6 DIN	09-0322-00-06	09-0322-09-06
		7	09-0326-00-07	09-0326-09-07
		7 DIN	09-1582-00-07	–
		8 DIN	09-0572-00-08	09-0572-09-08
		12	–	09-0330-00-12
		14	–	09-0342-00-14
		16	–	09-0338-00-16
		19	–	09-0344-00-19
		24	–	–
Kabeldose Kabeldurchlass 6 - 8 mm <i>Male cable connector</i> <i>cable outlet 6 - 8 mm (.24 - .32 in.)</i> 		2	09-0302-02-02	09-0302-92-02
		3 DIN	09-0306-02-03	09-0306-92-03
		4	09-0310-02-04	09-0310-92-04
		5	09-0314-02-05	09-0314-92-05
		5 (Stereo)	09-0318-02-05	09-0318-92-05
		6 DIN	09-0322-02-06	09-0322-92-06
		7	09-0326-02-07	09-0326-92-07
		7 DIN	–	–
		8 DIN	09-0572-02-08	09-0572-92-08
		12	–	09-0330-02-12
		14	–	09-0342-02-14
		16	–	09-0338-02-16
		19	–	09-0344-02-19
		24	–	09-0346-02-24

Miniatur Rundsteckverbinder Serie 680 Miniature circular connectors series 680

Flanschstecker Male sockets

Bezeichnung — Abbildung Description — Figure	Maßzeichnung Drawing	Polzahl Contacts	Bestell-Nr./Ordering-No.	
			versilberte Kontakte silver plated contacts	vergoldete Kontakte gold plated contacts
Flanschstecker, löten <i>Male socket, solder</i> 		2	09-0303-00-02	09-0303-09-02
		3 DIN	09-0307-00-03	09-0307-09-03
		4	09-0311-00-04	09-0311-09-04
		5	09-0315-00-05	09-0315-09-05
		5 (Stereo)	09-0319-00-05	09-0319-09-05
		6 DIN	09-0323-00-06	09-0323-09-06
		7	09-0327-00-07	09-0327-09-07
		7 DIN	09-1583-00-07	—
		8 DIN	09-0473-00-08	09-0473-09-08
		12	—	09-0331-00-12
		14	—	09-0053-00-14
		16	—	09-0339-00-16
		19	—	09-0363-00-19
24	—	09-0197-00-24		
Flanschstecker, löten, von vorne verschraubbar <i>Male socket, solder, front fastened</i> 		2	09-0303-80-02	09-0303-89-02
		3 DIN	09-0307-80-03	09-0307-89-03
		4	09-0311-80-04	09-0311-89-04
		5	09-0315-80-05	09-0315-89-05
		5 (Stereo)	09-0319-80-05	09-0319-89-05
		6 DIN	09-0323-80-06	09-0323-89-06
		7	09-0327-80-07	09-0327-89-07
		7 DIN	—	—
		8 DIN	09-0473-80-08	09-0473-89-08
		12	—	09-0331-80-12
		14	—	09-0053-80-14
		16	—	09-0339-80-16
		19	—	09-0363-80-19
24	—	09-0197-80-24		
Flanschstecker, tauchlöten, von vorne verschraubbar <i>Male socket, dip solder, front fastened</i> 		2	09-0303-90-02	09-0303-99-02
		3 DIN	09-0307-90-03	09-0307-99-03
		4	09-0311-90-04	09-0311-99-04
		5	09-0315-90-05	09-0315-99-05
		5 (Stereo)	09-0319-90-05	09-0319-99-05
		6 DIN	09-0323-90-06	09-0323-99-06
		7	09-0327-90-07	09-0327-99-07
		7 DIN	—	—
		8 DIN	09-0473-90-08	09-0473-99-08
		12	—	09-0331-90-12
		14	—	09-0053-90-14
		16	—	09-0339-90-16
		19	—	09-0363-90-19
24	—	09-0197-90-24		
Flanschstecker mit Flexplatte, von vorne verschraubbar <i>Male socket with flex board, front fastened</i> 		7	09-0327-65-07	
		8	09-0473-65-08	
		12		09-0331-65-12
		12		09-0331-66-12
			Weitere Maße siehe Seite Z3. Additional dimensions see page Z3.	

680

¹⁾ Flanschstecker von Serie 680 / Sockets from series 680.

Miniatur Rundsteckverbinder Serie 680 Miniature circular connectors series 680

Flanschdosen Female sockets

Bezeichnung — Abbildung Description — Figure	Maßzeichnung Drawing	Polzahl Contacts	Bestell-Nr./Ordering-No.	
			versilberte Kontakte silver plated contacts	vergoldete Kontakte gold plated contacts
Flanschdose, löten Female socket, solder		2	09-0304-00-02	09-0304-09-02
		3 DIN	09-0308-00-03	09-0308-09-03
		4	09-0312-00-04	09-0312-09-04
		5	09-0316-00-05	09-0316-09-05
		5 (Stereo)	09-0320-00-05	09-0320-09-05
		6 DIN	09-0324-00-06	09-0324-09-06
		7	09-0328-00-07	09-0328-09-07
		7 DIN	09-1584-00-07	—
		8 DIN	09-0474-00-08	09-0474-09-08
		12	—	09-0332-00-12
		14	—	09-0054-00-14
		16	—	09-0340-00-16
		19	—	09-0364-00-19
		24	—	09-0198-00-24
Flanschdose, löten, von vorne verschraubbar Female socket, solder, front fastened		2	09-0304-80-02	09-0304-89-02
		3 DIN	09-0308-80-03	09-0308-89-03
		4	09-0312-80-04	09-0312-89-04
		5	09-0316-80-05	09-0316-89-05
		5 (Stereo)	09-0320-80-05	09-0320-89-05
		6 DIN	09-0324-80-06	09-0324-89-06
		7	09-0328-80-07	09-0328-89-07
		7 DIN	—	—
		8 DIN	09-0474-80-08	09-0474-89-08
		12	—	09-0332-80-12
		14	—	09-0054-80-14
		16	—	09-0340-80-16
		19	—	09-0364-80-19
		24	—	09-0198-80-24
Flanschdose, tauchlöten, von vorne verschraubbar Female socket, dip solder, front fastened		2	09-0304-90-02	09-0304-99-02
		3 DIN	09-0308-90-03	09-0308-99-03
		4	09-0312-90-04	09-0312-99-04
		5	09-0316-90-05	09-0316-99-05
		5 (Stereo)	09-0320-90-05	09-0320-99-05
		6 DIN	09-0324-90-06	09-0324-99-06
		7	09-0328-90-07	09-0328-99-07
		7 DIN	—	—
		8 DIN	09-0474-90-08	09-0474-99-08
		12	—	09-0332-90-12
		14	—	09-0054-90-14
		16	—	09-0340-90-16
		19	—	09-0364-90-19
		24	—	09-0198-90-24
Flanschdose mit Flexplatte, von vorne verschraubbar Female socket with flex board, front fastened		7	09-0328-65-07	
		8	09-0474-65-08	
		12		09-0332-65-12
		12		09-0332-66-12

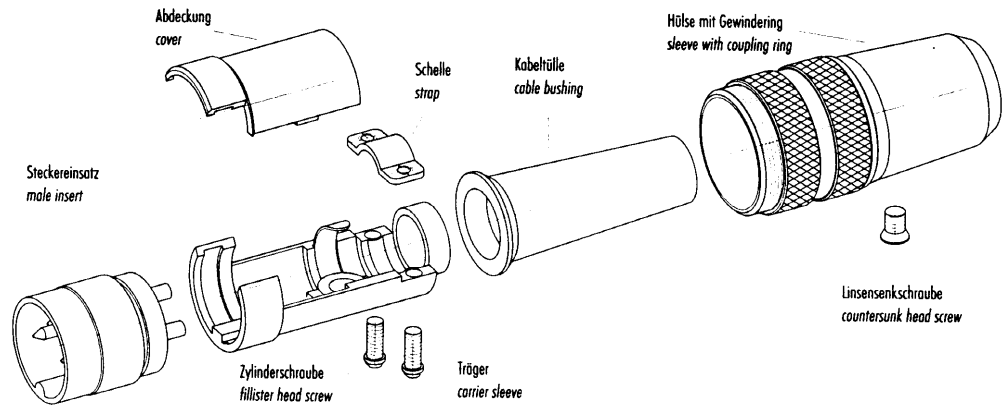
Weitere Maße siehe Seite Z3.
Additional dimensions see page Z3.

¹⁾ Flanschstecker von Serie 680 / Sockets from series 680.

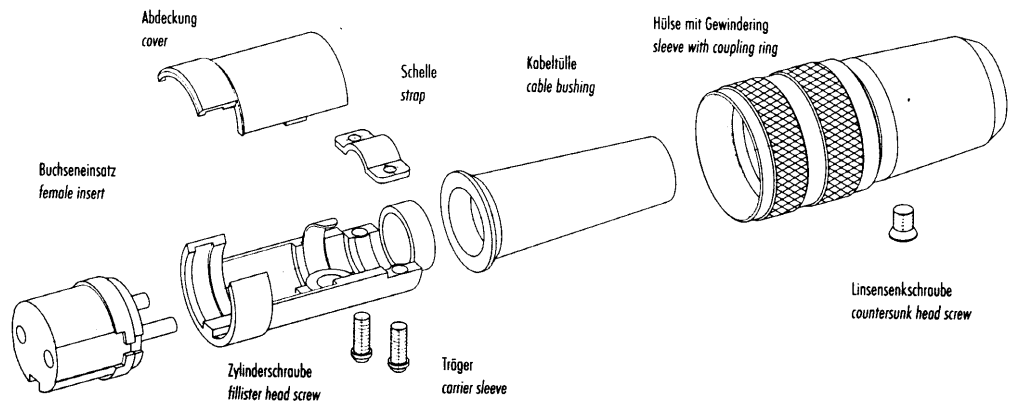
Miniatur Rundsteckverbinder Serie 680
Miniature circular connectors series 680

Einzelteildarstellung
Component part drawings

Kabelstecker
Male cable connector



Kabeldose
Female cable connector



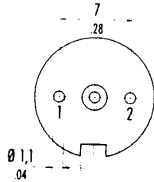
Miniatur Rundsteckverbinder Serie 680 Miniature circular connectors series 680

Polbilder Contact arrangements

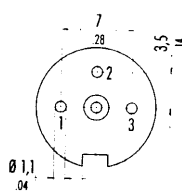
Polbilder mit Sicht auf die Lötanschlusseite der Stifteinsätze
Contact arrangements with view on the solder termination side of male inserts

x-y Koordinaten
x-y Coordinates

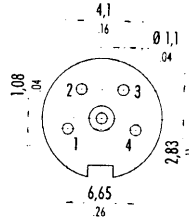
2 pol



3 pol (DIN 41524)



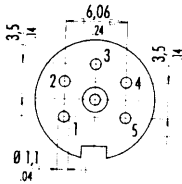
4 pol



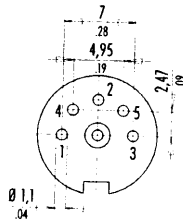
12 pol

	X	Y
A	-0,41	-3,45
B	2,29	-3,61
C	4,10	-1,21
D	3,20	1,34
E	2,71	3,59
F	0,41	3,45
G	-2,29	3,61
H	-4,10	1,21
J	-3,20	-1,34
K	-2,71	-3,59
L	-2,00	-1,51
M	-2,00	-1,51

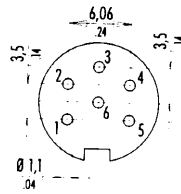
5 pol



5 pol stereo (DIN 41524)



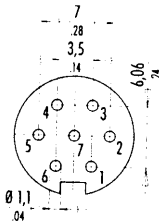
6 pol (DIN 45322)



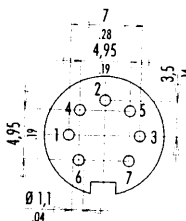
14 pol

	X	Y
A	2,50	-4,00
C	4,25	0,00
E	2,30	4,00
G	-2,30	4,00
J	-4,25	0,00
L	-2,50	-4,00
M	0,95	2,40
N	2,40	-0,95
O	2,40	0,95
P	0,95	2,40
R	-0,95	2,40
S	-2,40	0,95

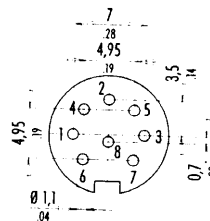
7 pol



7 pol (DIN 45329)



8 pol (DIN 45326)

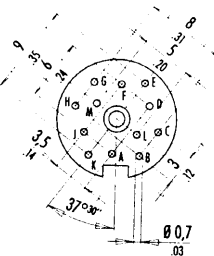


16 pol

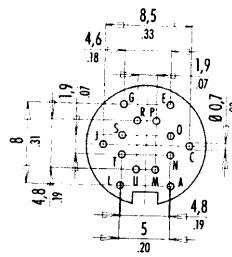
	X	Y
A	2,50	-4,00
B	4,00	-2,25
C	4,25	0,00
D	4,00	2,40
E	2,30	4,00
F	0,00	4,25
G	-2,30	4,00
H	-4,00	2,40
I	-4,25	0,00
K	-4,00	-2,25
L	-2,50	-4,00
M	0,00	-2,60

680

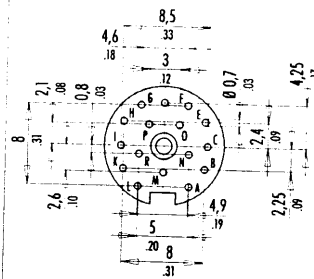
12 pol



14 pol



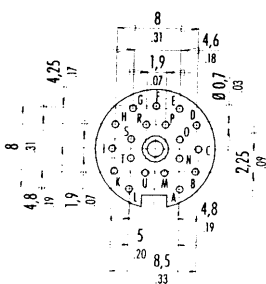
16 pol



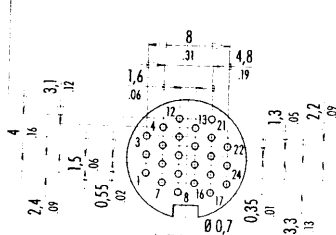
19 pol

	X	Y
A	2,50	-4,00
B	4,00	-2,25
C	4,25	0,00
D	4,00	2,40
E	2,30	4,00
F	0,00	4,25
G	-2,30	4,00
H	-4,00	2,40
I	-4,25	0,00
K	-4,00	-2,25
L	-2,50	-4,00
M	0,95	-2,40

19 pol



24 pol



Montageausschnitt
Panel cut out



24 pol

	X	Y
1	-4,00	-1,50
2	-4,00	0,35
3	-4,00	2,20
4	-2,40	3,10
5	-2,40	1,30
6	-2,40	-0,55
7	-2,40	2,40
8	-0,80	-3,30
9	-0,80	-1,50
10	-0,80	0,35
11	-0,80	2,20
12	-0,80	4,00
13	0,80	3,10
14	0,80	1,30
15	0,80	-0,55
16	0,80	2,40
17	2,40	-3,30
18	2,40	-1,50
19	2,40	0,35
20	2,40	2,20
21	2,40	4,00
22	4,00	1,30
23	4,00	-0,55
24	4,00	-2,40

¹⁾ Polbilder von Serie 680 / Contact arrangements from series 680.