



Serie 712

Subminiatur Rundsteckverbinder Serie 712 Subminiature circular connectors series 712

Kurzinformation Brief information

Kabelsteckverbinder

- Steckverbinder mit Schraubverriegelung
- Schutzart IP 67¹⁾
- Metallgehäuse 360°
EMV-sicher geschirmt
- Einfache Montage
- Kompatibel zu Steckverbinderreihe 702

Cable Connector

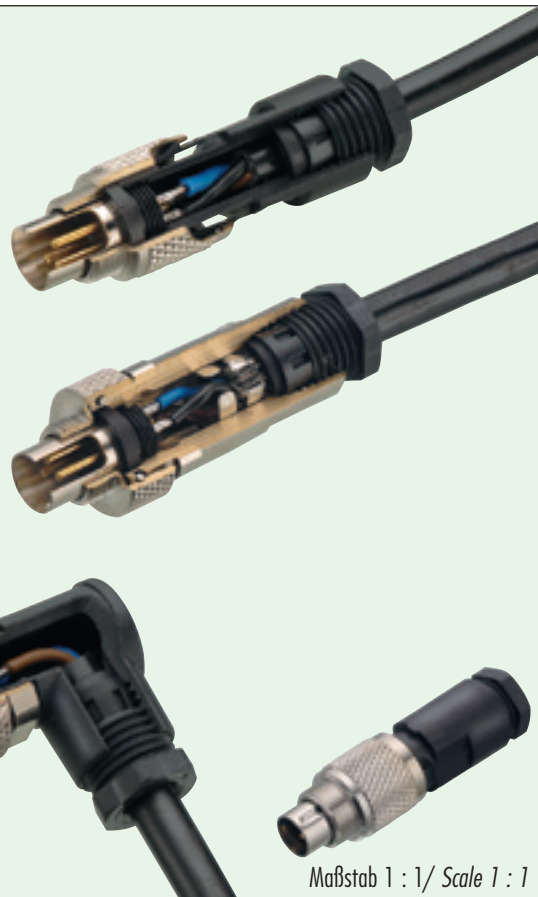
- Connector with screw locking
- Degree of protection IP 67¹⁾
- Metal housing with 360°
EMI protected shielding
- Easy assembly
- Compatible to series 702

Aufbau des Steckverbinders:
Construction of the connector:

Standard Version
Standard version

Metall, (EMV) Version
Metal, (EMI) version

Winkel Version
Angled version



Flanschsteckverbinder

- 1 Standard: mit Lötanschluss, wird von vorn eingesetzt und von hinten verschraubt.
- 2 Mit Lötanschluss für die Verschraubung von vorne. Besonders geeignet für vorkonfektionierte Kabelbäume, die nach dem Lötén eingebaut werden.
- 3 Mit Tauchlötanschluss für den Anschluss für Leiterplatten.
- 4 Mit Tauchlötanschluß, für direkte Schirmübertragung auf die Leiterplatte

Chassis sockets

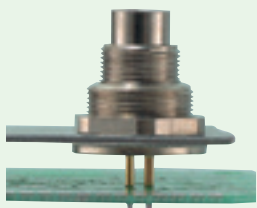
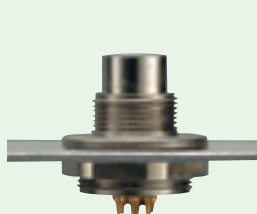
- 1 Standard: with solder termination, mounted from front side and fastened from back side.
- 2 With solder termination, mounted from front side and fastened from back side. Especially suited for preassembled cable trees which are mounted after soldering.
- 3 Dip solder termination for connection to PCB.
- 4 Dip solder termination, for direct connection to the of shield PCB.

1

2

3

4



¹⁾ Erläuterung der Schutzarten siehe Seite TI-3 – TI-4. / ¹⁾ Explanation of protection standards see page TI-3 – TI-4.

Subminiatur Rundsteckverbinder Serie 712 Subminiature circular connectors series 712

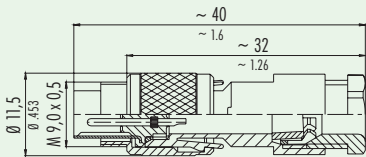
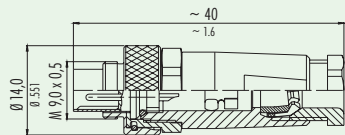
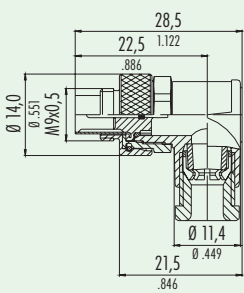
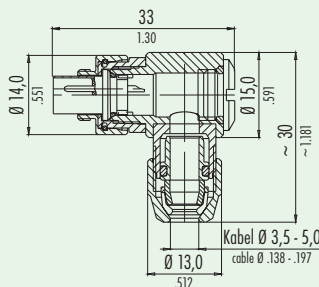
Technische Daten ¹⁾ Specifications ¹⁾

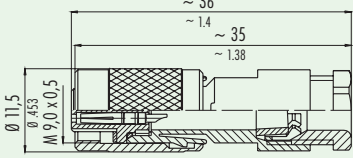
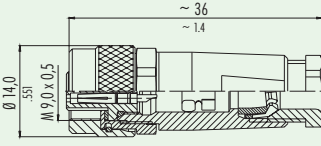
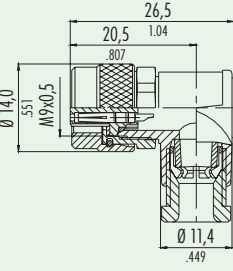
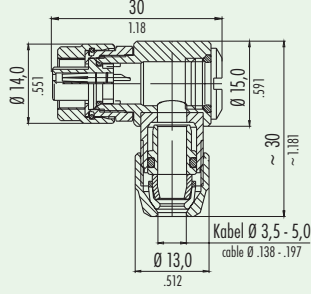
Allgemeine Kennwerte		General Characteristics					
Polzahl	Number of contacts	2	3	4	5	7	8
Verriegelung	Locking system	schrauben / screw					
Anschlussart	Termination	löten, tauchlöten / solder, dip solder					
Anschlussquerschnitt in mm²	Wire gauge in mm²	max. 0,25				max. 0,14	
Anschlussquerschnitt in AWG	Wire gauge in AWG	max. 24				max. 26	
Kabeldurchlass	Cable Outlet	3,5 - 5 mm (.12 - .20 in.)					
Schutzart Gehäuse	Shell protection	IP 67					
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	~ 8 g (18 g Metallgehäuse / 18 g metall housing)					
Gewicht Flanschsteckverbinder	Weight socket	~ 5 g					
Elektrische Kennwerte		Electrical Characteristics					
Bemessungsspannung	Rated voltage	125 V					
Bemessungs-Stoßspannung	Rated impulse voltage	1500 V					
Verschmutzungsgrad	Pollution degree	1					
Überspannungskategorie	Overvoltage categorie	II					
Isolierstoffgruppe	Material group	III					
Prüfstoßspannung	Test voltage	1750 V					
Bemessungsstrom (40 °C)	Rated current (40 °C)	4 A		3 A		1 A	
Durchgangswiderstand	Contact resistance	< 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	Au (Gold/gold)					
Steckerkörper	Male insert	PBT (UL 94 V-0)					
Buchsenkörper	Female Insert	PA 66 (UL 94 V-0)					
Gehäuse Kabelsteckverbinder	Housing cable connector	PA 66 (UL 94 HB)					
Flanschgehäuse	Socket	CuZn (Messing, vernickelt/brass, nickel plated)					
Gewinding	Ring nut	CuZn (Messing, vernickelt/brass, nickel plated)					

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

Subminiatur Rundsteckverbinder Serie 712 Subminiature circular connectors series 712

Kabelstecker Male cable connectors

Bezeichnung — Abbildung Description — Figure	Maßzeichnung Drawing	Polzahl Contacts	Bestell-Nr. Ordering-No.
Kabelstecker Male cable connector 		2	99-0401-00-02
		3	99-0405-00-03
		4	99-0409-00-04
		5	99-0413-00-05
		7	99-0421-00-07
		8	99-0425-00-08
Kabelstecker 360° EMV sicher Male cable connector 360° EMI protected 		2	99-0401-10-02
		3	99-0405-10-03
		4	99-0409-10-04
		5	99-0413-10-05
		7	99-0421-10-07
		8	99-0425-10-08
Winkelstecker Male angled connector 		2	99-0401-70-02
		3	99-0405-70-03
		4	99-0409-70-04
		5	99-0413-70-05
		7	99-0421-70-07
		8	99-0425-70-08
Winkelstecker 360° EMV sicher Male angled connector 360° EMI protected 		2	99-0401-75-02
		3	99-0405-75-03
		4	99-0409-75-04
		5	99-0413-75-05
		7	99-0421-75-07
		8	99-0425-75-08

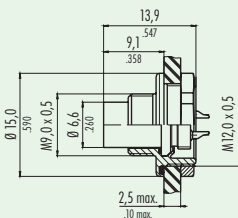
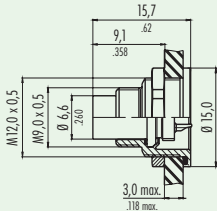
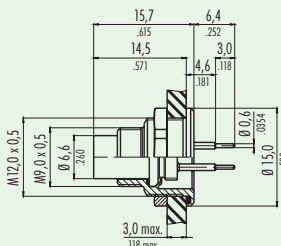
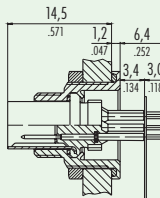
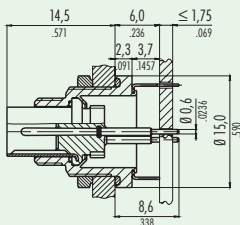
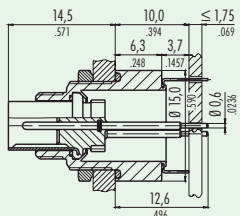
Subminiatur Rundsteckverbinder Serie 712 Subminiature circular connectors series 712		Kabeldosen Female cable connectors	
Bezeichnung — Abbildung Description — Figure	Maßzeichnung Drawing	Polzahl Contacts	Bestell-Nr. Ordering-No.
Kabeldose Female cable connector 		2	99-0402-00-02
		3	99-0406-00-03
		4	99-0410-00-04
		5	99-0414-00-05
		7	99-0422-00-07
		8	99-0426-00-08
Kabeldose 360° EMV sicher Female cable connector 360° EMI protected 		2	99-0402-10-02
		3	99-0406-10-03
		4	99-0410-10-04
		5	99-0414-10-05
		7	99-0422-10-07
		8	99-0426-10-08
Winkeldose Female angled connector 		2	99-0402-70-02
		3	99-0406-70-03
		4	99-0410-70-04
		5	99-0414-70-05
		7	99-0422-70-07
		8	99-0426-70-08
Winkeldose 360° EMV sicher Female angled connector 360° EMI protected 		2	99-0402-75-02
		3	99-0406-75-03
		4	99-0410-75-04
		5	99-0414-75-05
		7	99-0422-75-07
		8	99-0426-75-08

Subminiatur Rundsteckverbinder Serie 712

Subminiature circular connectors series 712

Flanschstecker

Male sockets

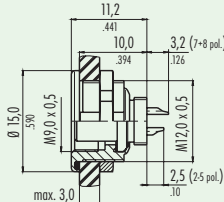
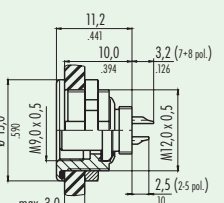
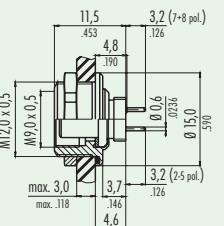
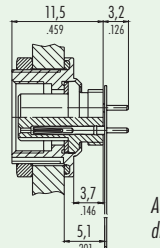
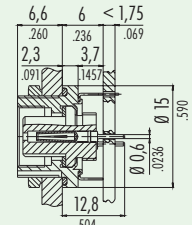
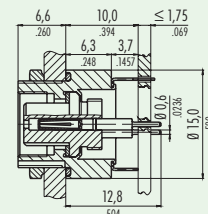
Bezeichnung — Abbildung Description — Figure	Maßzeichnung Drawing	Polzahl Contacts	Bestell-Nr. Ordering-No.
Flanschstecker, löten <i>Male socket, solder</i> 		2	09-0403-00-02
		3	09-0407-00-03
		4	09-0411-00-04
		5	09-0415-00-05
		7	09-0423-00-07
		8	09-0427-00-08
Flanschstecker, löten, von vorn verschraubbar <i>Male socket, solder, front fastened</i> 		2	09-0403-80-02
		3	09-0407-80-03
		4	09-0411-80-04
		5	09-0415-80-05
		7	09-0423-80-07
		8	09-0427-80-08
Flanschstecker, tauchlöten, von vorn verschraubbar <i>Male socket, dip solder, front fastened</i> 		2	09-0403-90-02
		3	09-0407-90-03
		4	09-0411-90-04
		5	09-0415-90-05
		7	09-0423-90-07
		8	09-0427-90-08
Flanschstecker mit flexibler Leiterplatte <i>Male socket with flexible PCB</i> 	 Weitere Maße siehe Seite Z-1. Additional dimensions see page Z-1.	—	—
		—	—
		—	—
		—	—
		7	09-0423-65-07
		8	09-0427-65-08
Flanschstecker, tauchlöten, von vorn verschraubbar mit Schirmblech (6 mm) <i>Male socket, dip solder, front fastened with shielding sheet (6 mm)</i> 		2	09-0403-30-02
		3	09-0407-30-03
		4	09-0411-30-04
		5	09-0415-30-05
		7	09-0423-30-07
		8	09-0427-30-08
Flanschstecker, tauchlöten, von vorn verschraubbar mit Schirmblech (10 mm) <i>Male socket, dip solder, front fastened with shielding sheet (10 mm)</i> 		2	09-0403-35-02
		3	09-0407-35-03
		4	09-0411-35-04
		5	09-0415-35-05
		7	09-0423-35-37
		8	09-0427-35-08

Subminiatur Rundsteckverbinder Serie 712

Subminiature circular connectors series 712

Flanschdosen

Female sockets

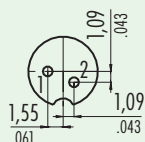
Bezeichnung — Abbildung Description — Figure	Maßzeichnung Drawing	Polzahl Contacts	Bestell-Nr. Ordering-No.
Flanschdose, löten <i>Female socket, solder</i> 		2	09-0404-00-02
		3	09-0408-00-03
		4	09-0412-00-04
		5	09-0416-00-05
		7	09-0424-00-07
		8	09-0428-00-08
Flanschdose, löten, von vorn verschraubbar <i>Female socket, solder, front fastened</i> 		2	09-0404-80-02
		3	09-0408-80-03
		4	09-0412-80-04
		5	09-0416-80-05
		7	09-0424-80-07
		8	09-0428-80-08
Flanschdose, tauchlöten, von vorn verschraubbar <i>Female socket, dip solder, front fastened</i> 		2	09-0404-90-02
		3	09-0408-90-03
		4	09-0412-90-04
		5	09-0416-90-05
		7	09-0424-90-07
		8	09-0428-90-08
Flanschdose mit flexibler Leiterplatte <i>Female socket with flexible PCB</i> 	 Weitere Maße siehe Seite 712-11 Additional dimensions see page 712-11	—	—
		—	—
		—	—
		—	—
		7	09-0424-65-07
		8	09-0428-65-08
Flanschdose, tauchlöten, von vorn verschraubbar mit Schirmblech (6 mm) <i>Female socket, dip solder, front fastened with shielding sheet (6 mm)</i> 		2	09-0404-30-02
		3	09-0408-30-03
		4	09-0412-30-04
		5	09-0416-30-05
		7	09-0424-30-07
		8	09-0428-30-08
Flanschdose, tauchlöten, von vorn verschraubbar mit Schirmblech (10 mm) <i>Female socket, dip solder, front fastened with shielding sheet (10 mm)</i> 		2	09-0404-35-02
		3	09-0408-35-03
		4	09-0412-35-04
		5	09-0416-35-05
		7	09-0424-35-07
		8	09-0428-35-08

Subminiatur Rundsteckverbinder Serie 712 Subminiature circular connectors series 712

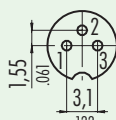
Polbilder, Montageanleitung Contact arrangement, assembly instruction

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

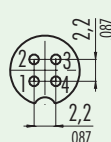
2 pol



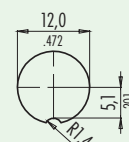
3 pol



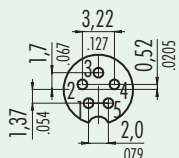
4 pol



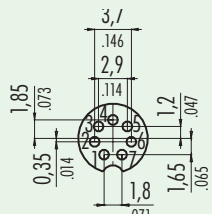
Montageausschnitt
Panel cut out



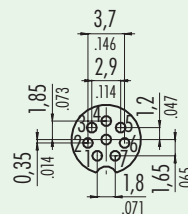
5 pol



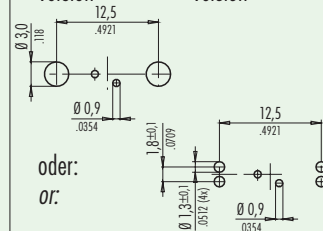
7 pol



8 pol

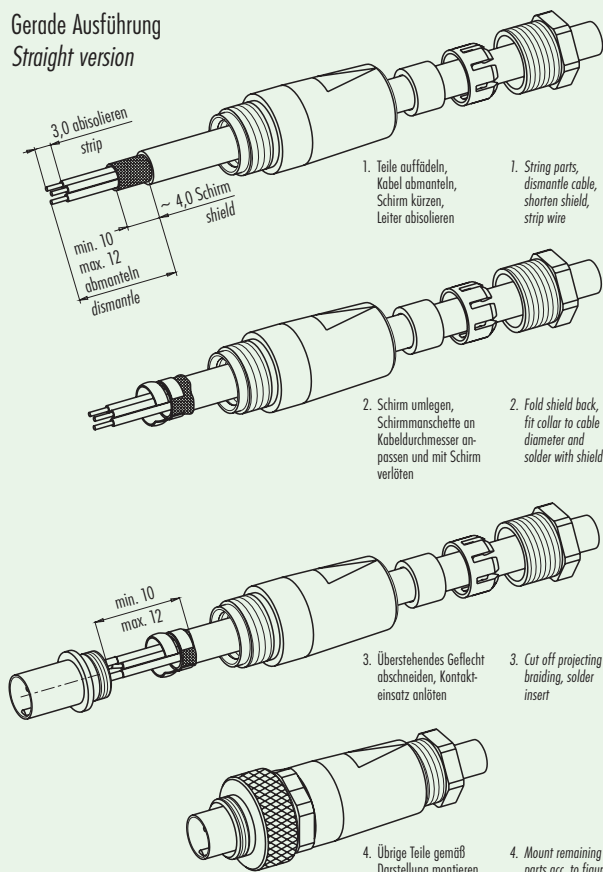


Lochbild
Schirmblech-
version
Drilling scheme
shielding sheet
version

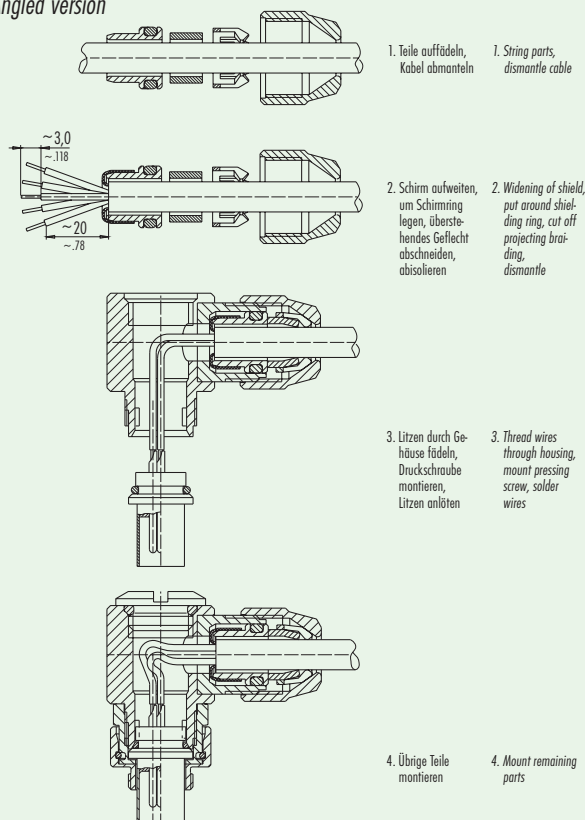


Montageanleitung EMV Steckverbinder (Metallausführung)
Assembly instruction EMI connectors (metal version)

Gerade Ausführung
Straight version



Gewinkelte Ausführung
Angled version

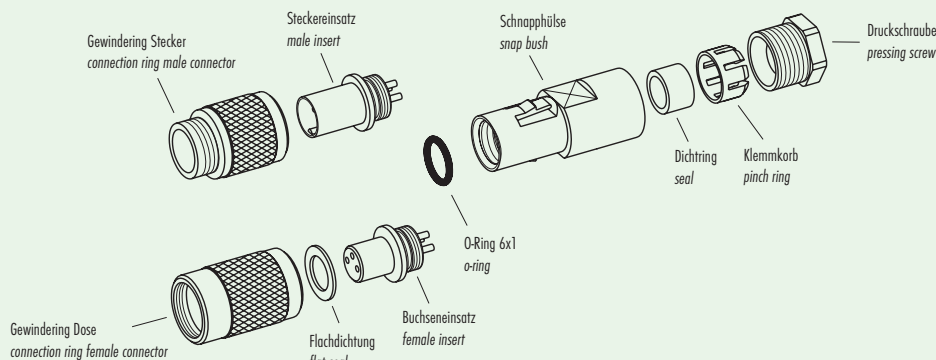


Achtung: max. Drehmoment des Gewinderings im Flanschsteckverbinder: 50 cNm (handfest)
Attention: max. torque of ring nut in socket connector: 50 cNm (manual adjustment)

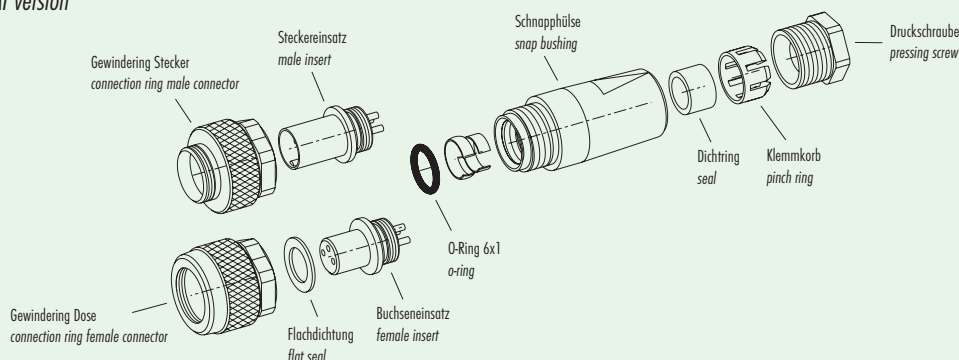
Subminiatur Rundsteckverbinder Serie 712 Subminiature circular connectors series 712

Einzelteildarstellung Component part drawing

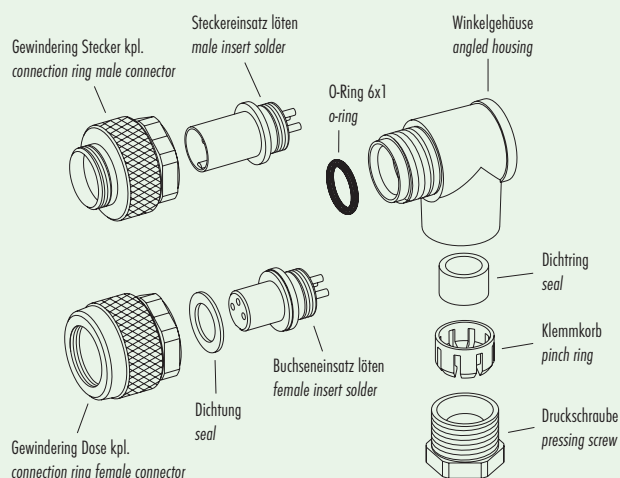
Kabelsteckverbinder Cable connector



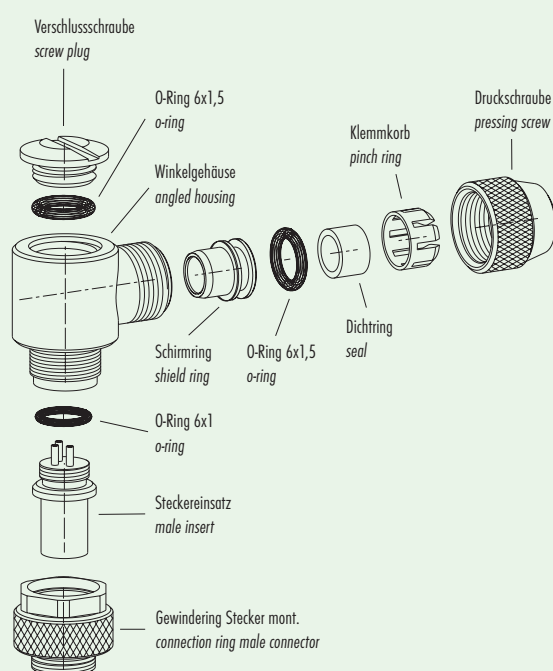
Kabelsteckverbinder EMV Version Cable connector EMI version



Winkelsteckverbinder Angled cable connector



Winkelsteckverbinder EMV Version Angled cable connector EMI version



Achtung: max. Drehmoment des Gewinderings im Flanschsteckverbinder: 50 cNm (handfest)
Attention: max. torque of ring nut in socket connector: 50 cNm (manual adjustment)

Ü
TI

702
709
710
711
712

719
423
440
581
678
680
682
720
723
623
690
691
692
693
694

707
713
718
763
765
768
714
715
766
815
820
772
775
M-A
M-B
M-C

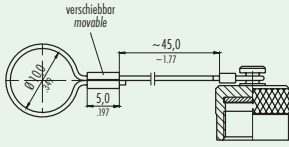
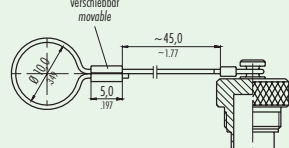
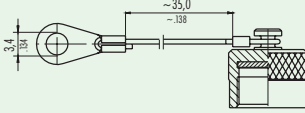
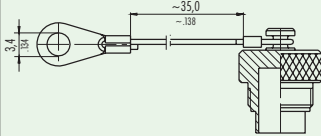
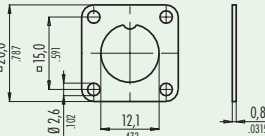
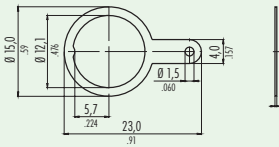
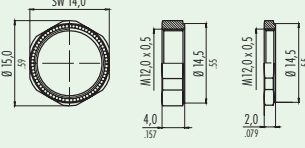
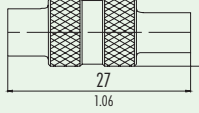
R

Subminiatur Rundsteckverbinder Serie 712

Subminiature circular connectors series 712

Zubehör

Accessories

Bezeichnung Description	Abbildung Figure	Maßzeichnung Drawing	Bestell-Nr. Ordering-No.
Schutzkappe für Kabelstecker, IP 67 Protection cap for male cable connector, IP 67			08-0349-000-001
Schutzkappe für Kabeldose, IP 67 Protection cap for female cable connector, IP 67			08-0350-000-001
Schutzkappe für Flanschstecker, IP 67 Protection cap for male sockets, IP 67			08-0351-000-001
Schutzkappe für Flanschdose, IP 67 Protection cap for female sockets, IP 67			08-0352-000-001
Viereckflansch mit Dichtung Square flange with seal			08-1124-000-001
Lötösenring (Schutzart kann sich verringern) Solder eye ring (Degree of protection may be reduced)			04-0208-002
6-kant Mutter mit Rändel 2 mm, 4 mm Hexagonal nut 2 mm, 4 mm			01-0013-001 (2 mm) 01-5023-001 (4 mm)
Montageschlüssel Mounting spanner			01-5059-001

Ü
TI

- 702
- 709
- 710
- 711
- 712**
- 719
- 423
- 440
- 581
- 678
- 680
- 682
- 720
- 723
- 623
- 690
- 691
- 692
- 693
- 694
- 707
- 713
- 718
- 763
- 765
- 768
- 714
- 715
- 766
- 815
- 820
- 772
- 775
- M-A
- M-B
- M-C

R