CONNECTORS FOR THE HIGHEST TEMPERATURE RANGE - STECKVERBINDUNGEN FÜR HÖCHSTE TEMPERATUR-MESSBEREICHE - THERMAO SERIES

THERMO SERIES

CONNECTORS FOR THE HIGHEST TEMPERATURE RANGE

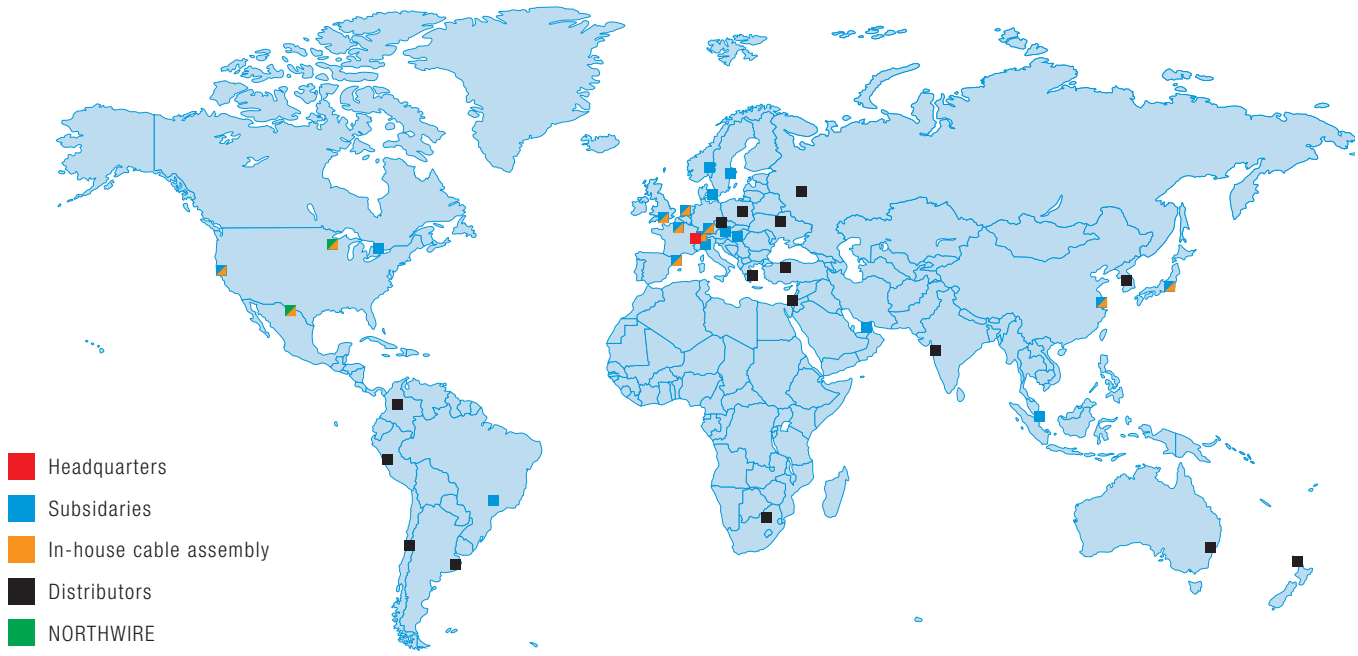
STECKVERBINDUNGEN FÜR HÖCHSTE TEMPERATUR- MESSBEREICHE

LEMO

ABOUT LEMO

LEMO is the acknowledged leader in the design and manufacture of precision custom connection and cable solutions.
LEMO's high quality Push-Pull connectors are found in a variety of challenging application environments including medical, industrial control, test & measurement, Mil-Aero, unmanned vehicles, oil & gas, audio-video and telecommunications.
LEMO has been designing precision connectors for seven decades, offering more than 75,000 combinations of product that continue to grow through custom specific designs. LEMO and its affiliated sister companies REDEL, NORTHWIRE and COELVER currently serve more than 100,000 customers in over 80 countries around the world.

- More than 75 years of Push Pull connector experience
- Over 1800 employees worldwide
- 20 sales offices
- 17 distributors
- 7 production and logistics sites
- 10 LEMO cable assembly facilities
- Technologies Include: design and development, machine tool and special machine construction, injection, stamping, turning, surface technology, assembly and cable assembly



Messwiderstände, Widerstandsthermometer, Ausgleichsleitungen, Mantelleitungen und vor allen Dingen Mantel-Thermoelemente müssen für den industriellen Einsatz mit einer geeigneten Steckverbindung versehen werden. Das Messen der Thermospannung erfolgt im mV und µV Bereich. Für diesen Messbereich ist die LEMO-Steckverbindung das ideale Bauteil.

Measure resistances, resistance thermometers, compensating cables, insulated cables and particularly insulated thermocouples must be fitted with a suitable connector for the industrial use. The thermovoltage is measured in mV and µV. The LEMO connector is the ideal component part for this technology.

Mantel-Thermoelemente | Aufbau und Funktion

Miniatur-Mantel-Thermoelemente bestehen aus einem Thermopaar, eingebettet in einer hochtemperaturfesten keramischen Isolationsschicht, umgeben von einem Metallmantel, der als Schutz gegen mechanische und chemische Einwirkungen dient.

Jacket thermocouples | construction and function

Miniature jacket thermocouples consist of a thermo pair fitted in an high temperature ceramic insulation material coated with a metallic jacket, protecting against mechanical and chemical effects.

Der Aufbau und die Funktion von Mantel-Thermoelementen ist in der DIN EN 60584 festgehalten.

The construction and the function of the thermocouples are normed in DIN EN 60584.

Die Auswahl des Adermaterials bestimmt den Temperaturbereich.

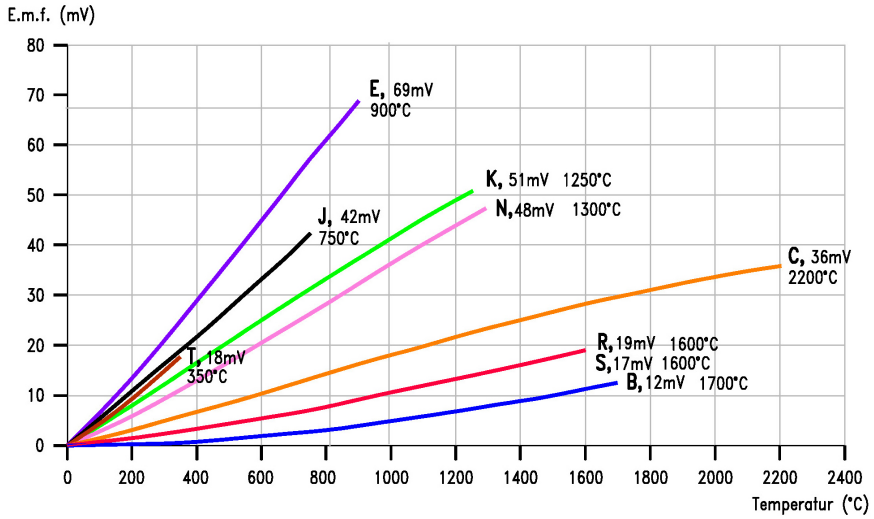
Mit Thermoelementen sind Messungen zwischen -250°C und +2200°C möglich.
Die Entwicklung neuer Werkstoffe seit der Einführung durch Seebeck und Peltier
ist noch immer in Bewegung.

Das gebräuchlichste Thermopaar ist die Ausführung Nickel-Chrom/Nickel (NiCr-Ni); (Typ K).
Der Einsatzbereich liegt bei - 200°C bis 1100 °C.
In Verbindung mit unserer LEMO Steckverbindung erhält man hier gute thermoelektrische
Eigenschaften und der Thermo-Spannungsverlauf ist fast linear.

The selection of the wire material will determine the temperature range.
The measurements range of thermocouples is between - 250 and + 2200 °C. The development of
new materials is still moving since the introduction of Seebeck and Peltier.

The most used thermocouple is the part of nickel-chrome/ nickel (NiCr-Ni); (Typ K).
The temperature range is from - 200°C to 1100°C. With our LEMO connector
we reached good thermoelectric characteristics and the thermal voltage curve is nearly linear.

Thermospannung (mV) | Thermal voltage (mV)



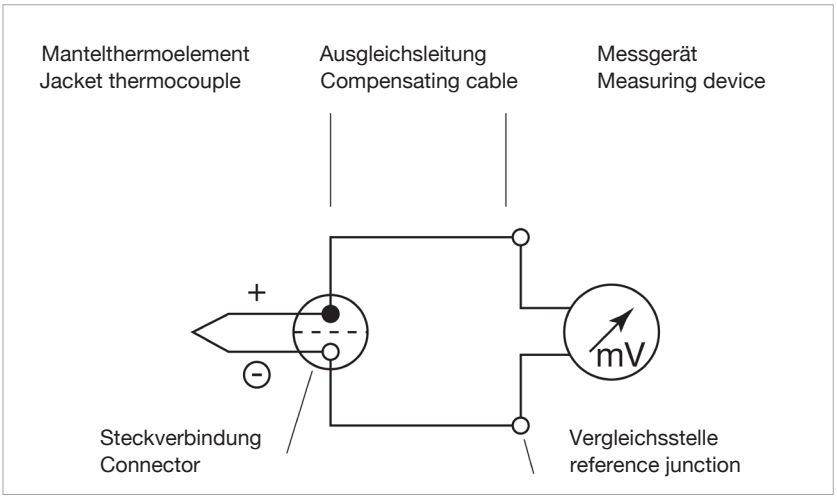
Steckverbindung und Thermoelement

Die Entfernung zwischen der Meßstelle und dem Messgerät beträgt in extremen Fällen mehrere 100 m.

Connector and thermocouple

In extreme applicatoins the distance between the measuring point and the measuring device can be several hundred meters.

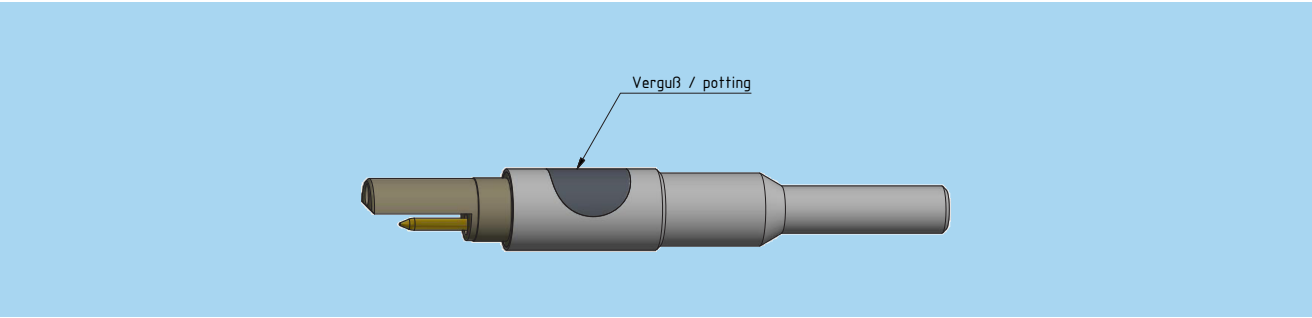
Messaufbau | Measurement assembly



Um eine einwandfreie Funktion der Miniatur-Mantel-Thermoelemente zu gewährleisten, müssen die Anschlußstellen gegen Feuchtigkeit dicht abgeschlossen werden. Dies geschieht durch Vergießen mit Epoxidharz.

To guarantee a good function of the insulated miniature thermocouples, the connection points must be tightly saved against humidity. This sealing can be made with Epoxy.

TH-Spannzangen mit Vergußloch | TH-collets with potting hole



Aus langen Erfahrungswerten geht hervor, daß bei den gebräuchlichsten Thermopaaren, wie z. B. NiCr-Ni die hochwertigen LEMO-Kontakte in der vergoldeten Version eingesetzt werden können. An der Anschlußstelle mit dem Thermoelementmaterial heben sich die Thermospannungen nahezu auf.

Dies ist aber nur der Fall, wenn die Steckverbindung als Zwischenstück in der Thermoleitung dient und diese sich wiederum auf einem gleichen Temperaturlevel befindet. Überall dort, wo ein thermisches Gleichgewicht der Steckverbindung nicht erreicht wird, muß der Steckkontakt aus demselben Material wie dem der Thermoelemente gewählt werden. Siehe Übersicht Thermoelemente Ausgleichskabel.

Bei der Verwendung von Steckverbindungen mit Thermokontakten ist auf den richtigen Anschluß nach DIN EN 60584 zu achten.

Long experience has shown that with the most common thermocouples, such as NiCr-Ni the high-quality LEMO contacts can be used in the gold-plated version.
At the connection point with the thermocouple material, the thermoelectric voltages almost cancel each other out.

But this is only the case if the connector is used as an intermediate piece in the thermal line and this in turn is at the same temperature level. Wherever a thermal equilibrium of the plug connection is not achieved, the plug contact must be selected from the same material as that of the thermocouples. See the thermocouples compensating cable table.

When using connectors connections with thermal contacts, ensure the correct connection according to DIN EN 60584.

Bei der Verwendung von Hochtemperatur Lötzinn und der richtigen Löttemperatur ist eine leichte Verarbeitung und ein homogener Anschluß gewährleistet.

Das Mantel-Thermoelement wird in der Regel an der Kupplung Typ PCA.- - -.
oder an der Apparatedose mit Zugentlastung Typ PSA. - - - angeschlossen.

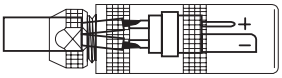
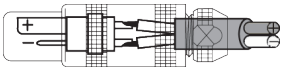
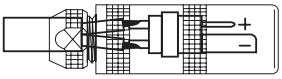
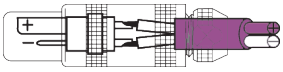
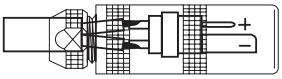
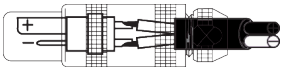
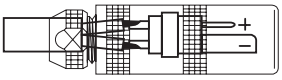
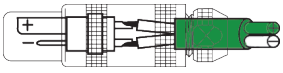
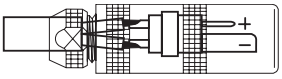
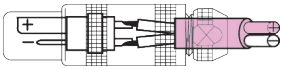
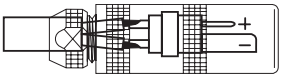
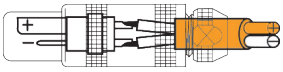
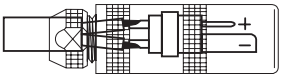
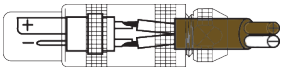
Der Anschluß der Ausgleichsleitung erfolgt somit am Stecker mit der Push-Pull-Verriegelung Typ FFA. - - -.

If using high temperaure solder tin and the right soldering temperature an easy processing and a homogeneous connection can be guaranteed.

The jacket thermocouple will be usually connected to the free socket of type PCA. - - -
or to the receptacle with cable collet type PSA. - - -.

The compensating cable is consequently fitted at the connector with Push-Pull locking system type FFA. - - -.

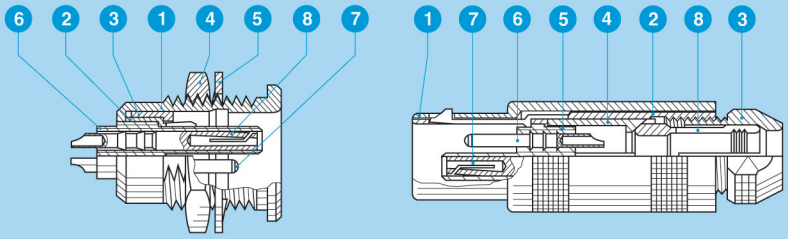
Ausgleichs- und Thermoleitungen | compensating and thermo cables

Thermoelement Thermocouple			Ausgleichskabel (IEC) Compensating Cable (IEC)	
Typ | Model	Polung | Pole	Material	Polung | Pole	Material
B		+ Platin, 30% Rhodium - Platin, 6 % Rhodium + Platinum, 30% Rhodium - Platinum, 6% Rhodium		+ CU - Legierung - CU
E		+ Nickel-Chrom - Kupfer-Nickel + Nickel-Chrome - Copper-Nickel		+ NiCr - CuNi
J		+ Eisen - Kupfer-Nickel + Iron - Copper-Nickel		+ FE - CuNi
K		+ Nickel-Chrom - Nickel + Nickel-Chrome - Nickel		+ NiCr + Fe - Ni - CuNi
N		+ Nickel-Chrom-Silizium - Nickel-Silizium + Nickel-Chrome-Silicon - Nickel Silicon		+ NiCrSi + CU - NiSi - CuNi
R S		+ Platin, 13% Rhodium - Platin + Platin, 10% Rhodium - Platin + Platinum, 13% Rhodium - Platinum + Platinum, 10% Rhodium - Platinum		+ Cu - CuNi
T		+ Kupfer - Kupfer-Nickel + Copper - Copper-Nickel		+ Cu - CuNi

S Serie | S Series

Fixed socket

1. outer shell
2. earthing crown
3. retaining ring
4. hexagonal nut
5. locking washer
6. insulator
7. male contact
8. female contact

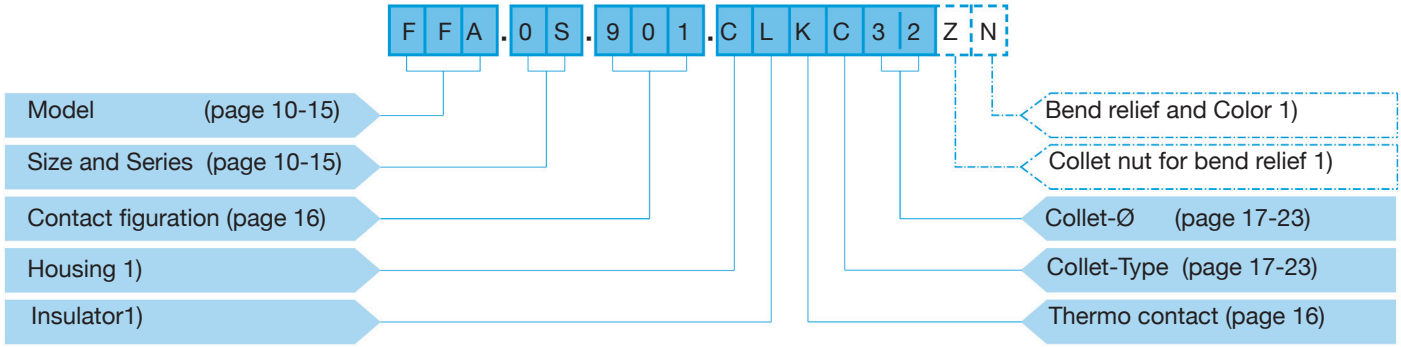


Straight plug

1. outer shell
2. latch sleeve
3. collet nut
4. centre-piece
5. insulator
6. male contact
7. female contact
8. collet

Artikelnummer Beispiele | Part number example

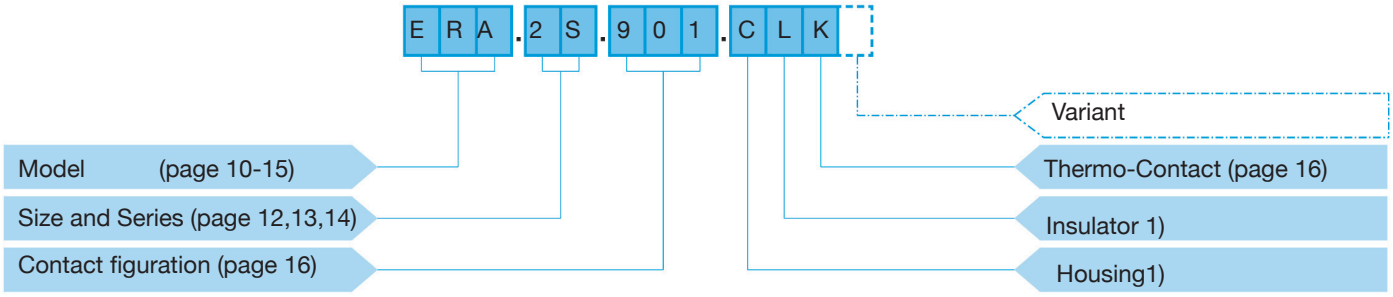
Standardstecker, gerade | Straight standard plug



Stecker gerade, Serie S, Größe 0, mehrpolig mit 2 Kontakten
Außenkörper aus verchromtem Messing, Isolationsteil aus PEEK,
männlicher und weiblicher Lötkontakt, Spannzange Typ C für Kabeldurchmesser 3.2 mm

Straight plug, series S, size 0, multipole with 2 contacts,
outershell in chrome-plated brass, PEEK insulator,
male and female solder contact, collet type C for 3.2 mm cable diameter

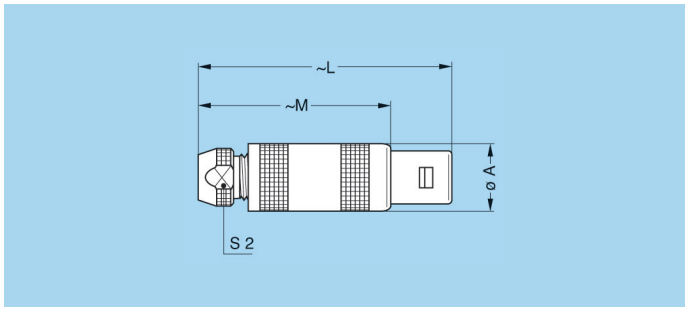
Apparatedose | Socket



Apparatedose, Serie S, Größe 2, mehrpolig mit 2 Kontakten,
Außenkörper aus verchromtem Messing, Isolationsteil aus PEEK,
männlicher und weiblicher Lötkontakt

Fixed socket, series S, size 2, multipole with 2 contacts
outer shell chrome-plated brass, PEEK insulator,
female and male solder contact

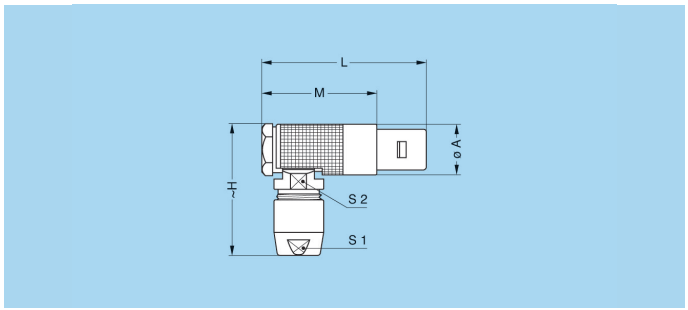
1) siehe Produktkatalog „Einpolige/Mehrpolige Steckverbinder“ | 1) see Cataloque „Unipole & Mulitpole Connectors“



FFA Stecker gerade mit Spannzange

Straight plug, cable collet

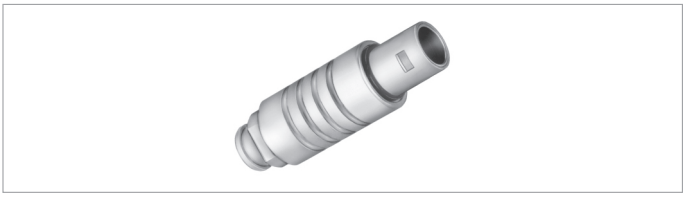
Reference		Dimensions (mm)			
Model	Series	A	L	M	S2
FFA	0S	9	34.5	24.5	6.5
FFA	1S	12	42.5	31.5	8.5
FFA	2S	14.8	52	40	11

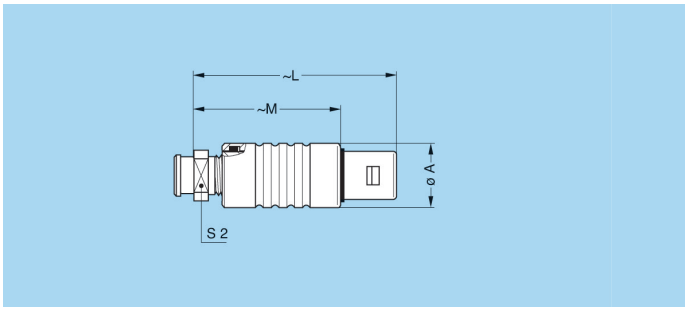


FLM Winkelstecker (90°) mit Spannzange

Elbow plug (90°), cable collet

Reference		Dimensions (mm)					
Model	Series	A	H	L	M	S1	S2
FLM	0S	9.5	23	30	20	7	8
FLM	1S	12	29	36	25	9	10
FLM	2S	14.8	35	41.5	29.5	12	13





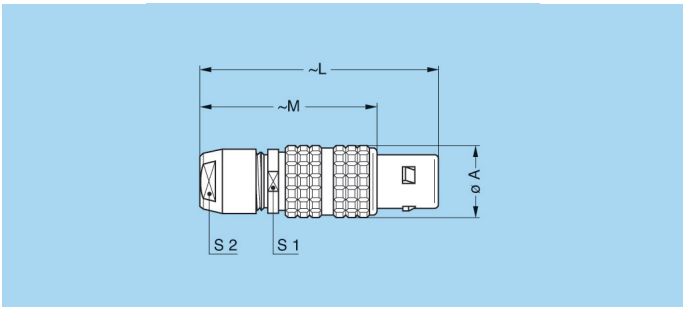
FFE Stecker, gerade, Spannzange, vorderseitiger Dichtung und Schraube für Knickschutztülle 1)

(Schutzart IP54, im gesteckten Zustand)

Straight plug, cable collet, front seal and nut for fitting a bend relief 1)

(protected to IP54 when mated)

Reference		Dimensions (mm)			
Model	Series	A	L	M	S1
FFE	0S	10	34.5	24.5	7
FFE	1S	13	42.5	31.5	9
FFE	2S	16	52	40	12

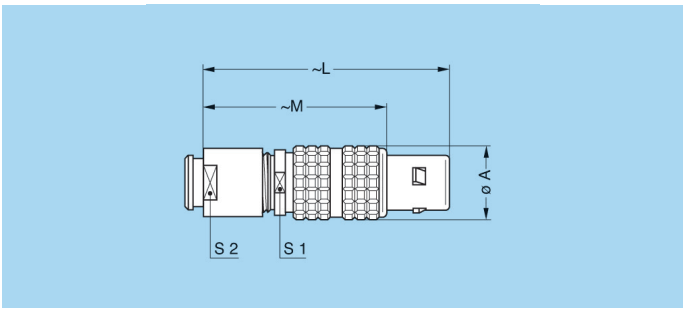


FGZ Gerader Stecker. Spannzange

Straight plug, cable collet

Reference		Dimensions (mm)				
Model	Series	A	L	M	S1	S2
FGZ	0S	9.5	36	26	8	7
FGZ	1S	12	43	32	10	9
FGZ	2S	15	50	38	13	12

Anmerkung: bei diesem Model werden die Spannzangen Typ D der B Serie verwendet 1) | Note: D Type collets of the B series are used in this model



FGZ Gerader Stecker, Spannzange und Spannschraube für Knickschutztülle 1)

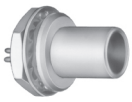
Straight plug, cable collet and nut for fitting a bend relief 1)

Reference		Dimensions (mm)				
Model	Series	A	L	M	S1	S2
FGZ	0S	9.5	35	25	8	7
FGZ	1S	12	42	31	10	9
FGZ	2S	15	49	37	13	12

Anmerkung: bei diesem Model werden die Spannzangen Typ D der B Serie verwendet 1) | Note: D Type collets of the B series are used in this model

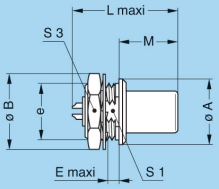
1) Zum Bestellen ein „Z“ am Ende des Bestellkennzeichens anfügen. Die Knickschutztülle muss getrennt bestellt werden.

1) To order, add a „Z“ at the end of the reference. The bend relief must be ordered separately.



FAA Einbaustecker ohne Verriegelung, Befestigung durch Mutter

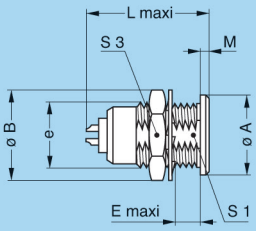
Fixed plug non-latching, nut fixing



Reference		Dimensions (mm)							
Model	Series	A	B	e	E	L	M	S1	S3
FAA	0S	10	12.4	M9 x 0.6	2.0	18.5	11.2	8.2	11
FAA	1S	14	16	M12 x 1	2.5	22.5	12.5	10.5	14
FAA	2S	18	19.5	M15 x 1	4.0	25	13.8	13.5	17

ERA Apparatedose mit Bestigung durch Mutter

Fixed socket, nut fixing



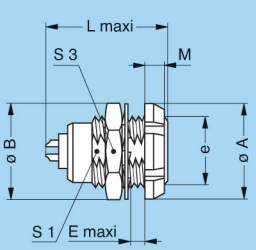
Reference		Dimensions (mm)							
Model	Series	A	B	e	E	L	M	S1	S3
ERA	0S	10	12.4	M9 x 0.6	7	18.5	1.2	8.2	11
ERA	1S	14	16	M12 x 1	7.5	21	1.5	10.5	14
ERA	2S	18	19.2	M15 x 1	8.5	24.5	1.8	13.5	17

ERD Apparatedose mit 2 Muttern

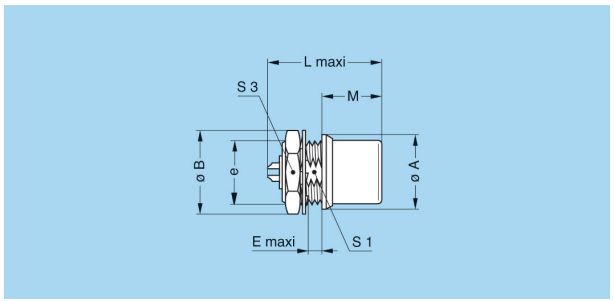
(von der Rückseite der Frontplatte aus montierbar)

Fixed socket with two nuts

(back panel mounting)



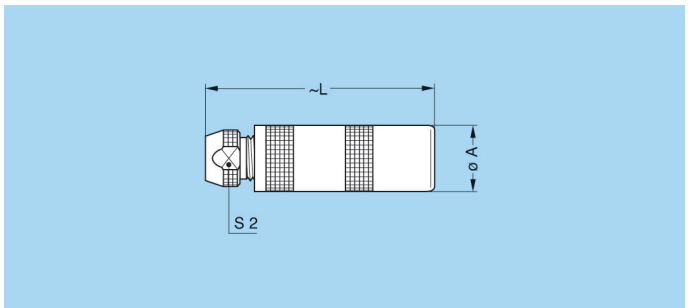
Reference		Dimensions (mm)							
Model	Series	A	B	e	E	L	M	S1	S3
ERD	0S	12	12.4	M9 x 0.6	5.5	18.5	2.5	8.2	11
ERD	1S	16	15.8	M12 x 1	6	20.2	3.5	10.5	14
ERD	2S	20	19.2	M15 x 1	6.5	24.2	3.5	13.5	17



EHP Apparatedose, Befestigung durch Mutter vorstehender Außenkörper

Fixed socket, nut fixing, protruding shell

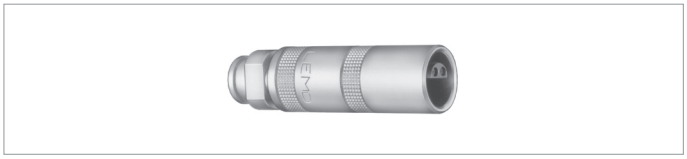
Reference		Dimensions (mm)							
Model	Series	A	B	e	E	L	M	S1	S3
EHP	0S	10	12.5	M9 x 0.6	2	20.5	12.5	8.0	11
EHP	1S	14	16	M12 x 1	3.5	20.2	12	-	14

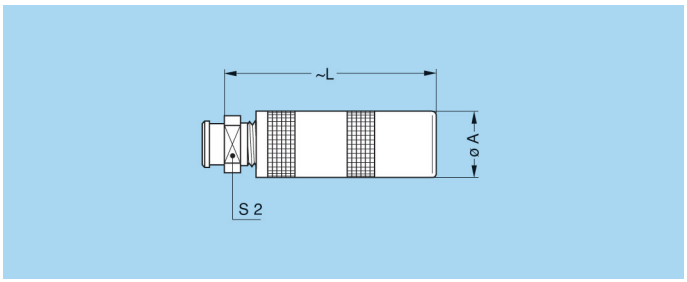


PCA Kabelkupplung mit Spannzange

Free socket, cable collet

Reference		Dimensions (mm)		
Model	Series	A	L	S2
PCA	0S	8.9	33.5	6.5
PCA	1S	11.9	40.5	8.5
PCA	2S	14.8	50.0	11



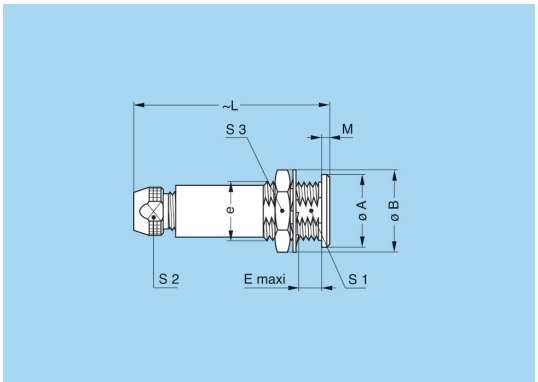


PCA Kabelkupplung mit Spannzange und Schraube für Knickschutztülle 1)

Free socket, cable collet and nut for fitting a bend relief 1)

Reference		Dimensions (mm)		
Model	Series	A	L	S2
PCA	0S	8.9	33.5	7
PCA	1S	11.9	40.5	9
PCA	2S	14.8	50	12

1) Anmerkung: Zum Bestellen ein „Z“ am Ende des Bestellkennzeichens anfügen. Die Knickschutztülle muss getrennt bestellt werden..
1) Note: To order add a „Z“ at the end of the reference. The bend relief must be ordered separately,



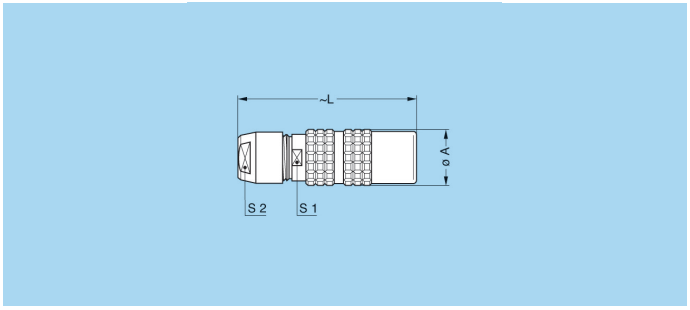
PSA Apparatedose, Befestigung durch Mutter Spannzange

Fixed socket, nut fixing, cable collet

Reference		Dimensions (mm)								
Model	Series	A	B	e	E	L	M	S1	S2	S3
PSA	0S	10	12.4	M9 x 0.6	7	33.5	1.2	8.2	6.5	11
PSA	1S	14	15.8	M12 x 1	7.5	40.5	1.5	10.5	8.5	14
PSA	2S	18	19.2	M15 x 1	8.5	50	1.8	13.5	11	17

PGZ Kabelkupplung, Spannzange

Free socket, Cable collet



Reference		Dimensions (mm)			
Model	Series	A	L	S1	S2
PGZ	0S	9.5	35.5	8	7
PGZ	1S	12.5	40.5	10	9
PGZ	2S	15	49	13	12

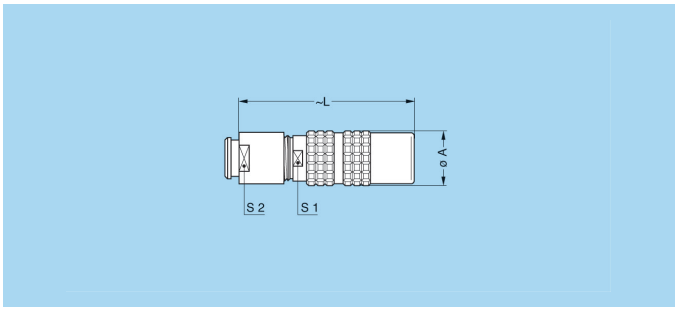
Kabelmontage 1) | Cable assembly 1)

1) Anmerkung: bei diesem Model werden die Spanzzangen Typ D der B Serie verwendet.

1) Note: D Type collets of the B series are used in this model.

PGZ Kabelkupplung, Spannzange und Spannschraube für Knickschutztülle 1)

Free socket, cable collet and nut for fitting a bend relief 1)



Reference		Dimensions (mm)			
Model	Series	A	L	S1	S2
PGZ	0S	9.5	34.5	8	7
PGZ	1S	12.5	39.5	10	9
PGZ	2S	15	48	13	12

Kabelmontage 1) | Cable assembly 1)

1) Anmerkung: bei diesem Model werden die Spannzangen Typ D der B Serie verwendet.

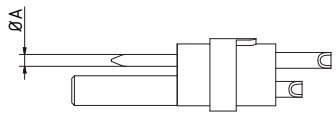
1) Note: D Type collets of the B series are used in this model.

1) Zum Bestellen ein „Z“ am Ende des Bestellkennzeichens anfügen. Die Knickschutztülle muss getrennt bestellt werden.

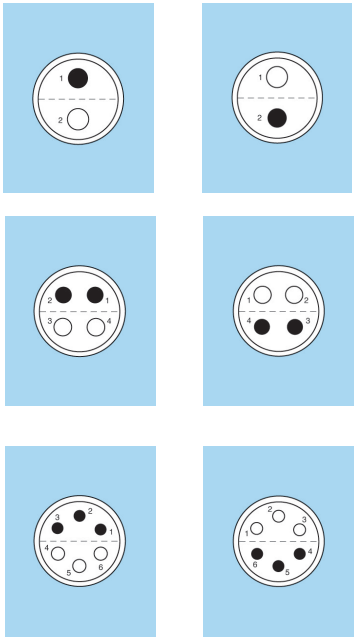
1) To order add a „Z“ at the end of the reference. The bend relief must be ordered separately.

TH-Kontaktfiguration S + E Serie | TH-Contact figuration S+E Series

Lötkontakte | Soldering Contacts



FGG EGG | PCA

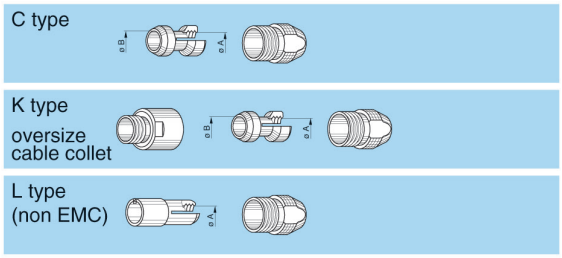


Reference	Series		Number of Contacts	Contacts-Ø Ø A (mm)	Max. Conductor-Ø	Contact-No.	Thermo contact Type			
	Standard	Watertight					E	J	K	T
901	0S	0E	2	0.9	0.8	1 2	EN EP	JN JP	KN KP	TN TP
	1S	1E	2	1.3	1	1 2	EN EP	JN JP	KN KP	TN TP
	2S	2E	2	1.6	1.4	1 2	EN EP	JN JP	KN KP	TN TP
902	0S	0E	4	0.7	0.6	1-3 2-4	EP EN	JP JN	KP KN	TP TN
	1S	1E	4	0.9	0.8	1-3 2-4	EP EN	JP JN	KP KN	TP TN
	2S	2E	4	1.3	1	1-3 2-4	EP EN	JP JN	KP KN	TP TN
903	1S	1E	6	0.7	0.6	1-3-5 2-4-6	EP EN	JP JN	KP KN	TP TN
	2S	2E	6	1.3	1	1-3-5 2-4-6	EP EN	JP JN	KP KN	TP TN

Anmerkung | Note: N = negative | P = positive

*alte Version | *old version

C, K and L type collets for S series



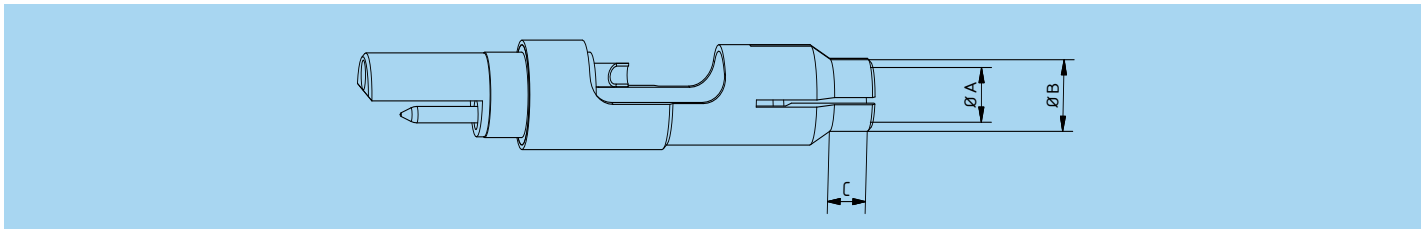
Reference		Series	Collet Ø (mm)		Cable Ø		Notes
Type	Code		Ø A	Ø B	max.	min.	
C	22	0S	2,2	-	2,2	1,3	3)
C	32		3,2	-	3,2	> 2.2	
C	37		3,7	-	3,7	> 3.2	
C	44		4,4	3,7	4,4	> 3.7	
K	52		5,2	-	5,2	> 4.2	
K	57		5,2	5,2	5,7	> 5.2	
K	62		6,2	5,2	6,2	> 5.7	
L	22		2,2	-	2,2	1,3	2)
L	32		3,2	-	3,2	> 2.2	2)
L	37		3,7	-	3,7	> 3.2	2)
L	44		4,4	-	4,3	3,5	1)2)
L	48		4.8	-	4.8	4.4	1) 2)

Reference		Series	Collet Ø (mm)		Cable Ø		Notes
Type	Code		Ø A	Ø B	max.	min.	
C	27	2S	2,7	-	2,7	1,3	
C	32		3,2	-	3,2	> 2.5	
C	42		4,2	-	4,2	> 3.2	
C	52		5,2	-	5,2	> 4.2	
C	62		6,2	-	6,2	> 5.2	
C	72		7,2	6,7	7,2	> 6.2	
C	82		8,2	6,7	8,2	> 7.2	
C	87		8,7	6,7	8,7	> 8.2	
K	97		9,7	9.0	9,7	> 8.7	
K	11		10,5	9.0	10,5	> 9.5	
L	32		3,2	-	3,2	2,5	2)
L	42		4,2	-	4,2	> 3.2	2)
L	52		5,2	-	5,2	> 4.2	2)
L	62		6,2	-	6,2	> 5.2	2)
L	72		7,2	-	7,2	> 6.2	2)
L	82		8,2	-	8,2	> 7.2	2)
L	87		8,7	-	8,7	> 8.2	1)2)

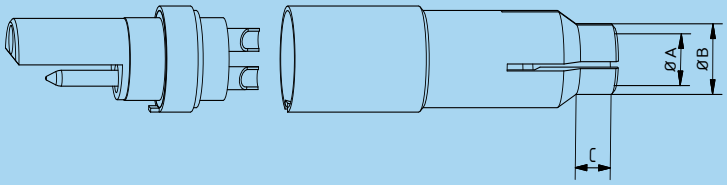
Reference		Series	Collet Ø (mm)		Cable Ø		
Type	Code		Ø A	Ø B	max.	min.	
C	22	1S	2,2	-	2,2	1,4	
C	32		3,2	-	3,2	> 2.2	
C	42		4,2	-	4,2	> 3.2	
C	52		5,2	-	5,2	> 4.2	
C	57		5,2	5,2	5,7	> 5.2	
C	62		6,2	5,2	6,2	> 5.7	
K	72		7,2	-	7,2	> 6.2	
K	82		8,2	6,7	8,2	>7.2	
K	87		8,7	6,7	8,7	> 8.2	
L	22		2,2	-	2,2	1,2	2)
L	32		3,2	-	3,2	> 2.2	2)
L	42		4,2	-	4,2	> 3.2	2)
L	52		5,2	-	5,2	> 4.2	2)
L	62		6,2	-	6,2	> 5.2	2)
L	66		6,6	-	6,5	5,9	1)2)

Anmerkung:
1) diese Spannzangen passen nicht zu Steckverbindern mit einer Spannschraube zum Befestigen einer Knickschutztülle 2) diese Spannzangen können nicht für Winkelstecker verwendet werden 3) der Innendurchmesser der kleinsten verfügbaren Knickschutztülle ist 2.5mm

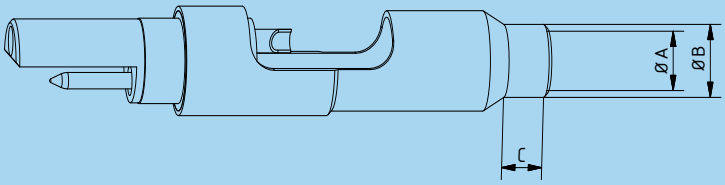
Note:
1) these collets can not be used for connector models with nut for fitting a bend relief 2) these collets can not be used for ellbow connectors 3) the inner diameter of the smallest bend relief is 2.5 mm



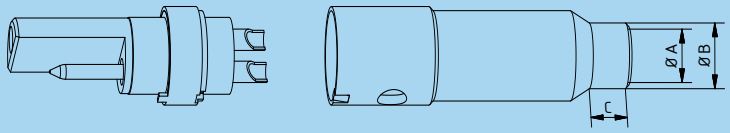
Part number Collet	Reference		Series	Dimensions of the Collet (mm)			Ø Thermo-couple max (mm)
	Model	Ø		Ø A	Ø B	Ø C	
FFA.0S.707.FN	F	07	0S	0.7	4.0	2.8	0.6
FFA.0S.710.FN	F	10		1.0	4.0	2.8	0.9
FFA.0S.712.FN	F	12		1.2	4.0	2.8	1.1
FFA.0S.715.FN	F	15		1.5	4.0	2.8	1.4
FFA.0S.717.FN	F	17		1.7	4.0	2.8	1.6
FFA.0S.720.FN	F	20		2.0	4.0	2.8	1.9
FFA.0S.722.FN	F	22		2.2	4.0	2.8	2.1
FFA.0S.725.FN	F	25		2.5	4.0	2.8	2.4
FFA.0S.727.FN	F	27		2.7	4.0	2.8	2.6
FFA.0S.730.FN	F	30		3.0	4.0	2.8	2.9
FFA.0S.734.FN	F	34		3.4	5.0	2.8	3.3
FFA.0S.742.FN	F	42		4.2	5.0	2.8	4.1
FFA.1S.717.FN	F	17	1S	1.7	5.0	5.2	1.6
FFA.1S.722.FN	F	22		2.2	5.0	5.2	2.1
FFA.1S.727.FN	F	27		2.7	5.0	5.2	2.6
FFA.1S.734.FN	F	34		3.4	5.0	5.2	3.3
FFA.1S.742.FN	F	42		4.2	6.0	5.2	4.1
FFA.1S.752.FN	F	52		5.2	6.0	5.2	5.1
FFA.1S.761.FN	F	61		6.1	6.7	5.2	6.0
FFA.2S.742.FN	F	42	2S	4.2	6.0	7.5	4.1
FFA.2S.752.FN	F	52		5.2	8.3	7.5	5.1
FFA.2S.767.FN	F	67		6.7	8.3	7.5	6.6



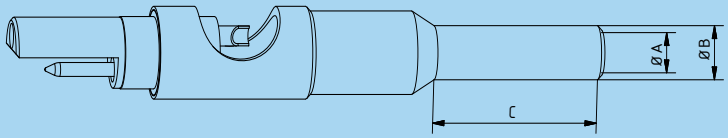
Part number Collet	Reference		Series	Dimensions of the Collet (mm)			Ø Thermo-Couple max.(mm)
	Model	Ø		Ø A	Ø B	Ø C	
FFA.0S.703.GN	G	03	0S	0.3	4.0	2.8	0.27
FFA.0S.707.GN	G	07		0.7	4.0	2.8	0.6
FFA.0S.710.GN	G	10		1.0	4.0	2.8	0.9
FFA.0S.712.GN	G	12		1.2	4.0	2.8	1.1
FFA.0S.715.GN	G	15		1.5	4.0	2.8	1.4
FFA.0S.720.GN	G	20		2.0	4.0	2.8	1.9
FFA.0S.722.GN	G	22		2.2	4.0	2.8	2.1
FFA.0S.727.GN	G	27		2.7	4.0	2.8	2.6
FFA.0S.730.GN	G	30		3.0	4.0	2.8	2.9
FFA.0S.734.GN	G	34		3.4	5.0	3.7	3.3
FFA.0S.742.GN	G	42		4.2	5.0	3.7	4.1
FFA.1S.712.GN	G	12	1S	1.2	5.0	3.3	1.1
FFA.1S.715.GN	G	15		1.5	5.0	3.3	1.4
FFA.1S.717.GN	G	17		1.7	5.0	3.3	1.6
FFA.1S.722.GN	G	22		2.2	5.0	3.3	2.1
FFA.1S.727.GN	G	27		2.7	5.0	3.3	2.6
FFA.1S.732.GN	G	32		3.2	5.0	3.3	3.1
FFA.1S.734.GN	G	34		3.4	5.0	3.3	3.3
FFA.1S.737.GN	G	37		3.7	5.0	3.3	3.6
FFA.1S.742.GN	G	42		4.2	6.0	4.4	4.1
FFA.1S.752.GN	G	52		5.2	6.2	4.4	5.1
FFA.1S.767.GN	G	67		6.7	8.0	4.4	6.6
FFA.2S.722.GN	G	22	2S	2.2	6.0	7.5	2.1
FFA.2S.727.GN	G	27		2.7	6.0	7.5	2.6
FFA.2S.734.GN	G	34		3.4	6.0	7.5	3.3
FFA.2S.742.GN	G	42		4.2	6.0	7.5	4.1
FFA.2S.752.GN	G	52		5.2	8.3	7.5	5.1



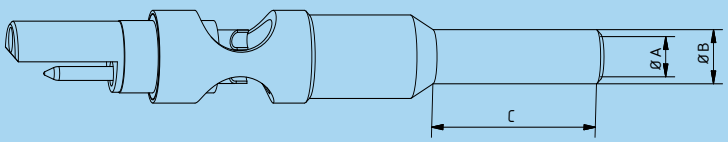
Part number Collet	Reference		Series	Dimensions of the Collet (mm)			Ø Thermo-Couple max.(mm)
	Model	Ø		Ø A	Ø B	Ø C	
FFA.0S.703.NN	N	03	0S	0.30	4.0	2.8	0.25
FFA.0S.705.NN	N	05		0.55	4.0	2.8	0.50
FFA.0S.707.NN	N	07		0.70	4.0	2.8	0.65
FFA.0S.710.NN	N	10		1.00	4.0	2.8	0.95
FFA.0S.712.NN	N	12		1.20	4.0	2.8	1.15
FFA.0S.715.NN	N	15		1.50	4.0	2.8	1.45
FFA.0S.717.NN	N	17		1.70	4.0	2.8	1.65
FFA.0S.720.NN	N	20		2.00	4.0	2.8	1.95
FFA.0S.722.NN	N	22		2.20	4.0	2.8	2.15
FFA.0S.725.NN	N	25		2.50	4.0	2.8	2.45
FFA.0S.727.NN	N	27		2.70	4.0	2.8	2.65
FFA.0S.730.NN	N	30		3.00	4.0	2.8	2.95
FFA.0S.732.NN	N	32		3.25	4.0	2.8	3.20
FFA.0S.734.NN	N	34		3.40	4.0	2.8	3.35
FFA.0S.742.NN	N	42		4.20	5.0	3.7	4.15
FFA.1S.717.NN	N	17	1S	1.7	6.0	5.2	1.65
FFA.1S.722.NN	N	22		2.2	6.0	5.2	2.15
FFA.1S.727.NN	N	27		2.7	6.0	5.2	2.65
FFA.1S.734.NN	N	34		3.4	6.0	5.2	3.35
FFA.1S.742.NN	N	42		4.2	6.0	5.2	4.15
FFA.1S.752.NN	N	52		5.2	6.0	5.2	3.55
FFA.2S.722.NN	N	22	2S	2.20	8.0/4.1	12.5	2.15
FFA.2S.727.NN	N	27		2.70	8.0/4.1	12.5	2.65
FFA.2S.731.NN	N	31		3.10	8.0/4.1	12.5	3.05
FFA.2S.734.NN	N	34		3.40	8.0/4.1	12.5	3.35
FFA.2S.742.NN	N	42		4.20	8.0	12.5	4.15
FFA.2S.746.NN	N	46		4.60	8.0	12.5	4.55
FFA.2S.747.NN	N	47		4.70	8.0	12.5	4.65
FFA.2S.752.NN	N	52		5.20	8.0	12.5	5.15
FFA.2S.761.NN	N	61		6.1	8.0	12.5	6.05
FFA.2S.767.NN	N	67		6.70	8.3	12.5	6.65



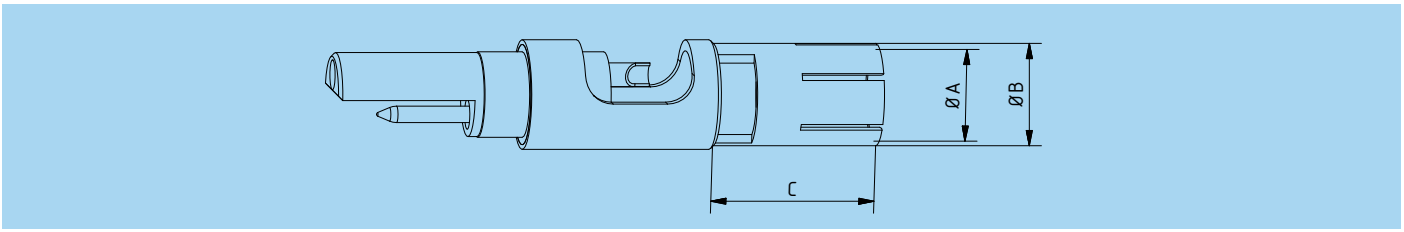
Part number Collet	Reference		Series	Dimensions of the Collet (mm)			Ø Thermo-Couple max. (mm)
	Model	Ø		Ø A	Ø B	Ø C	
FFA.0S.703.PN	P	03	0S	0.3	4.0	2.8	0.25
FFA.0S.707.PN	P	07		0.7	4.0	2.8	0.65
FFA.0S.712.PN	P	12		1.2	4.0	2.8	1.15
FFA.0S.717.PN	P	17		1.7	4.0	2.8	1.65
FFA.0S.722.PN	P	22		2.2	4.0	2.8	2.15
FFA.0S.727.PN	P	27		2.7	4.0	2.8	2.65
FFA.0S.734.PN	P	34		3.4	5.0	3.7	3.35
FFA.0S.742.PN	P	42		4.2	5.0	3.7	4.15
FFA.1S.711.PN	P	11	1S	1.1	2.3	4.5	1.05
FFA.1S.712.PN	P	12		1.2	2.3	4.5	1.15
FFA.1S.716.PN	P	16		1.6	2.8	4.5	1.55
FFA.1S.721.PN	P	21		2.1	3.2	4.5	2.05
FFA.1S.727.PN	P	27		2.7	4.2	4.5	2.65
FFA.1S.732.PN	P	32		3.2	4.2	4.5	3.15
FFA.1S.734.PN	P	34		3.4	5.8	5.0	3.35
FFA.1S.742.PN	P	42		4.2	5.8	5.0	4.15
FFA.1S.746.PN	P	46		4.6	5.8	5.0	4.55
FFA.1S.752.PN	P	52		5.2	6.0	5.0	5.15
FFA.1S.761.PN	P	61		6.1	7.0	5.0	6.05
FFA.2S.722.PN	P	22	2S	2.2	8.0 / 4.1	12.5	2.15
FFA.2S.727.PN	P	27		2.7	8.0 / 4.1	12.5	2.65
FFA.2S.734.PN	P	34		3.4	8.0 / 4.1	12.5	3.35
FFA.2S.742.PN	P	42		4.2	8.3	6.0	4.15
FFA.2S.746.PN	P	46		4.6	8.3	6.0	4.55
FFA.2S.752.PN	P	52		5.2	8.3	6.0	5.15
FFA.2S.761.PN	P	61		6.1	8.3	6.0	6.05
FFA.2S.767.PN	P	67		6.7	8.3	6.0	6.65



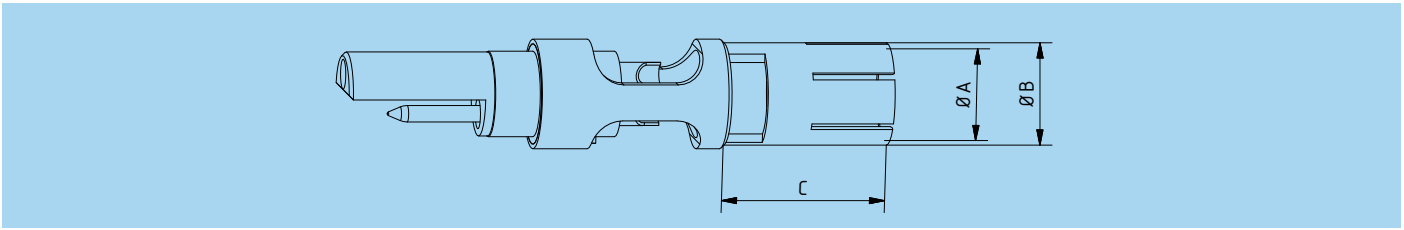
Part number Collet	Reference		Series	Dimensions of the Collet (mm)			Ø Thermo-Couple max. (mm)
	Model	Ø		Ø A	Ø B	Ø C	
FFA.0S.702.RN	R	02	0S	0.25	3.2	12.5	0.20
FFA.0S.703.RN	R	03		0.30	3.2	12.5	0.25
FFA.0S.705.RN	R	05		0.50	3.2	12.5	0.45
FFA.0S.707.RN	R	07		0.70	3.2	12.5	0.65
FFA.0S.710.RN	R	10		1.00	3.2	12.5	0.95
FFA.0S.711.RN	R	11		1.10	3.2	12.5	1.05
FFA.0S.712.RN	R	12		1.20	2.4	12.5	1.15
FFA.0S.716.RN	R	16		1.60	3.2	12.5	1.55
FFA-0S.717.RN	R	17		1.70	3.2	12.5	1.65
FFA.0S.720.RN	R	20		2.00	3.2	12.5	1.95
FFA.0S.722.RN	R	22		2.20	3.2	12.5	2.15
FFA.0S.726.RN	R	26		2.60	3.45	12.5	2.55
FFA.0S.727.RN	R	27		2.70	3.45	12.5	2.65
FFA.1S.712.RN	R	12	1S	1.20	3.2	10.2	1.15
FFA.1S.716.RN	R	16		1.60	3.2	10.2	1.55
FFA.1S.717.RN	R	17		1.70	3.2	10.2	1.65
FFA.1S.720.RN	R	20		2.00	3.2	10.2	1.95
FFA.1S.722.RN	R	22		2.20	3.5	10.5	2.15
FFA.1S.727.RN	R	27		2.70	3.7	10.5	2.65
FFA.1S.731.RN	R	31		3.10	4.5	12	3.05
FFA.1S.733.RN	R	33		3.30	4.5	12	3.25
FFA.1S.734.RN	R	34		3.40	4.5	12	3.35
FFA.1S.736.RN	R	36		3.60	4.5	12	3.55
FFA.1S.746.RN	R	46		4.60	5.8	12.4	4.55
FFA.2S.734.RN	R	34	2S	3.40	4.4	12.5	3.35
FFA.2S.746.RN	R	46		4.60	5.8	12.5	4.55



Part number Collet	Reference		Series	Dimensions of the Collet (mm)			Ø Thermo-Couple max. (mm)
	Model	Ø		Ø A	Ø B	Ø C	
FFA.0S.726.QN	Q	26	0S	2.60	3.45	12.5	2.55
FFA.1S.731.QN	Q	31	1S	3.10	4.4	11.2	3.05

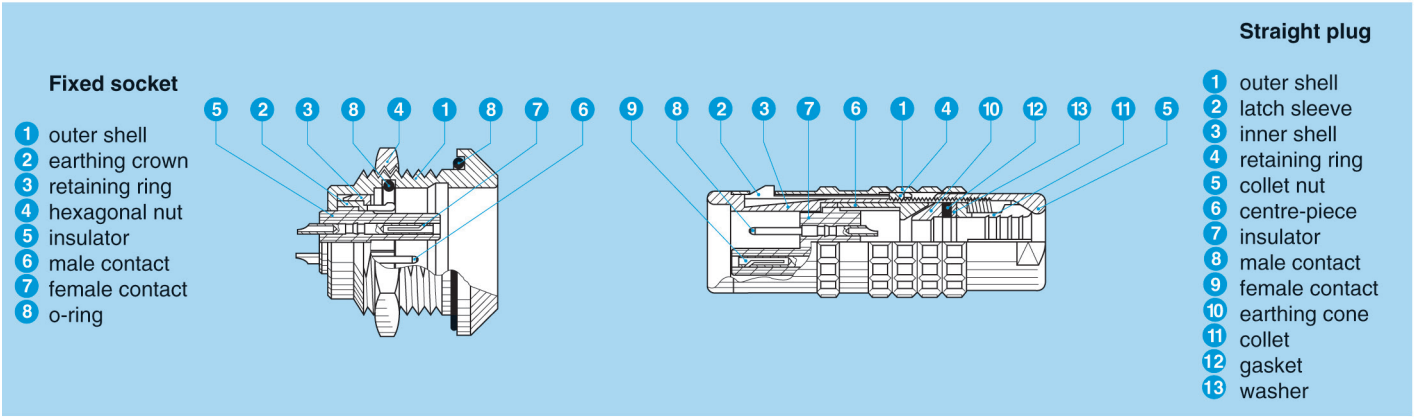


Part number Collet	Reference		Series	Dimensions of the Collet (mm)			Ø Thermo-Couple max (mm)
	Model	Ø		Ø A	Ø B	Ø C	
FFA.0S.748.LNY	Y	48	0S	5.0	5.7	9.2	4.8



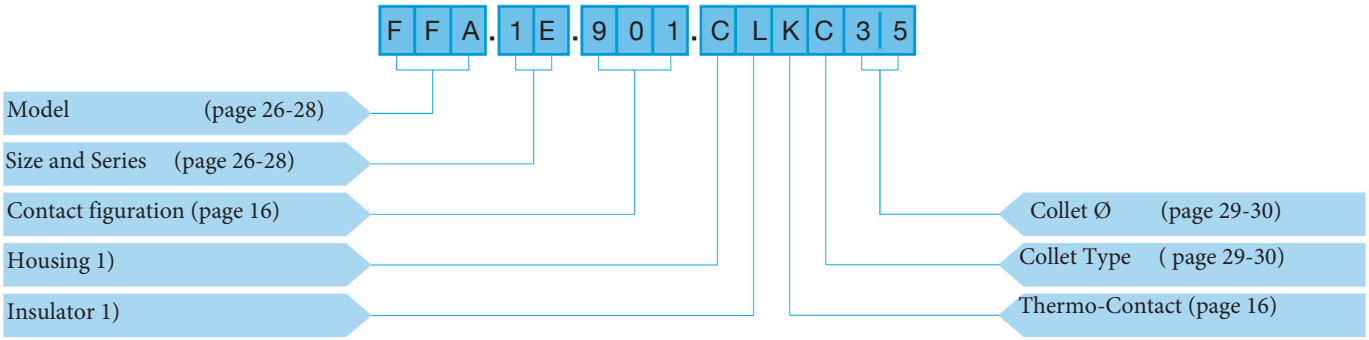
Part number Collet	Reference		Series	Dimensions of the Collet (mm)			Ø Thermo-Couple max (mm)
	Model	Ø		Ø A	Ø B	Ø C	
FFA.0S.748.FNY	L	48	0S	5.0	5.7	9.2	4.8

E Serie (wasserdicht) | E Series (watertight)



System der Bestellnummern | Part Numbering System

Stecker gerade wasserdicht | Straight plug watertight

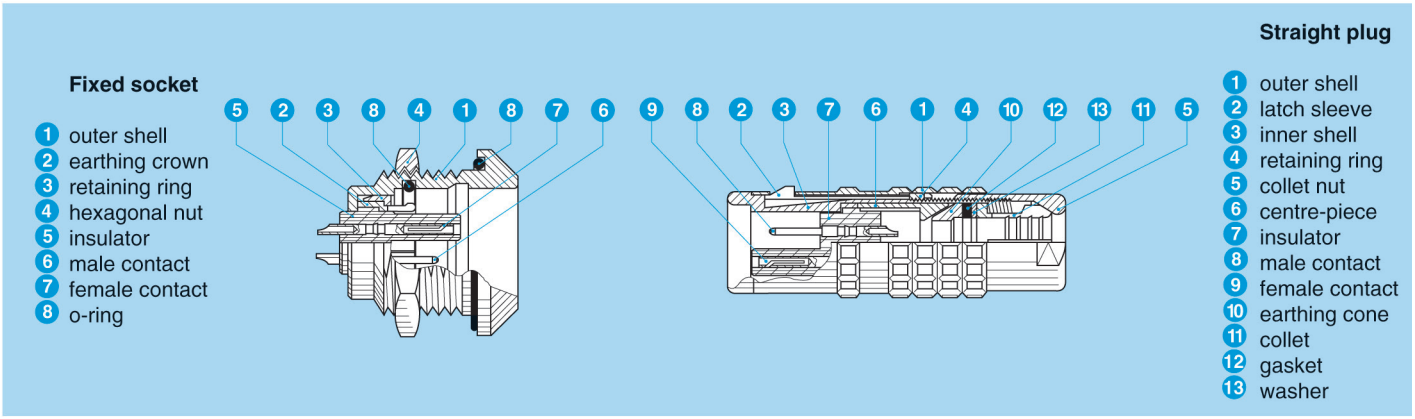


Stecker gerade, Serie E, Größe 1, mehrpolig mit 2 Kontakten
Außenkörper aus verchromtem Messing, Isolationsteil aus PEEK,
männlicher und weiblicher Lötkontakt, Spannzange Typ C für Kabeldurchmesser 3.5 mm

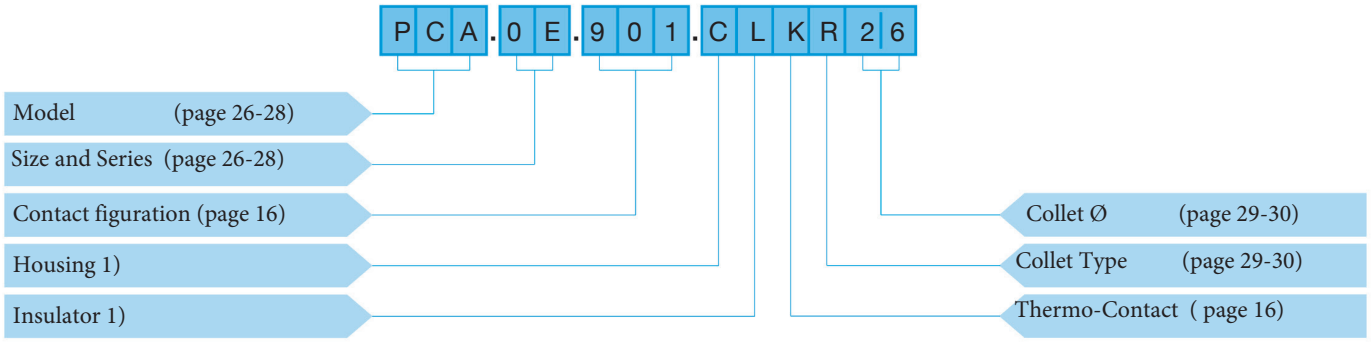
Straight plug, series E, size 1, multipole with 2 contacts,
outershell in chrome-plated brass, PEEK insulator,
male and female solder contact, collet type C for 3.5 mm cable diameter

1) siehe Produktkatalog „Einpolige/Mehrpolige Steckverbinder“ | 1) see Cataloque „Unipole & Mulitpole Connectors“

E Serie wasserdicht | E Series watertight



Kabelkupplung wasserdicht | Free socket watertight



Kabelkupplung, Serie E, Größe 0, mehrpolig mit 2 Kontakten Außenkörper aus verchromtem Messing, Isolationsteil aus PEEK, männlicher und weiblicher Lötkontakt, Thermo-Spannzange Typ R26

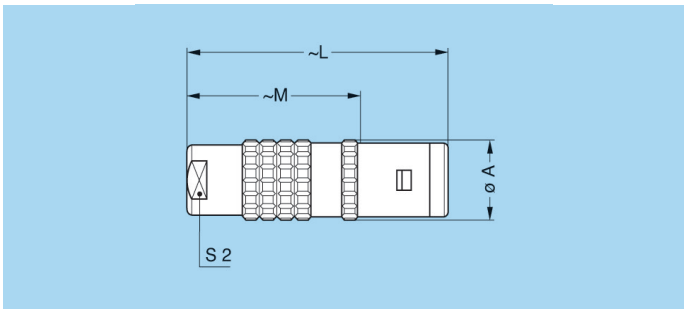
Free socket, series E, size 0, multipole with 2 contacts, outershell in chrome-plated brass, PEEK insulator, male and female solder contact, Thermo-collet type R26

1) siehe Produktkatalog „Einpolige/Mehrpolige Steckverbinder“ | 1) see Cataloque „Unipole & Mulitpole Connectors“

E Serie wasserdicht | E Series watertight

FFA Stecker gerade mit Spannzange

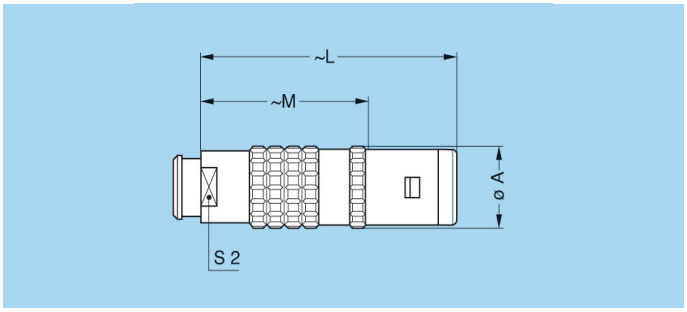
Straight plug with cable collet



Reference		Dimensions (mm)			
Model	Series	A	L	M	S2
FFA	0E	11	34	23	8.0
FFA	1E	13	42	28	9.0
FFA	2E	16	52	36	12.0

FFA Stecker gerade
Spannzange und Spannschraube für Knickschutztülle

Straight plug, cable collet and nut for fitting a bend relief

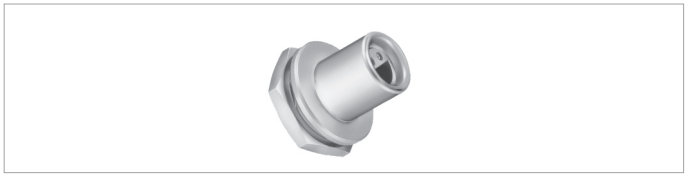


Reference		Dimensions (mm)			
Model	Series	A	L	M	S2
FFA	0E	11	34	23	7.0
FFA	1E	13	42	38	9.0
FFA	2E	16	52	36	12.0

1) Anmerkung: Zum Bestellen ein „Z“ am Ende der Bestellnummer anfügen. Die Knickschutztülle muss getrennt bestellt werden.

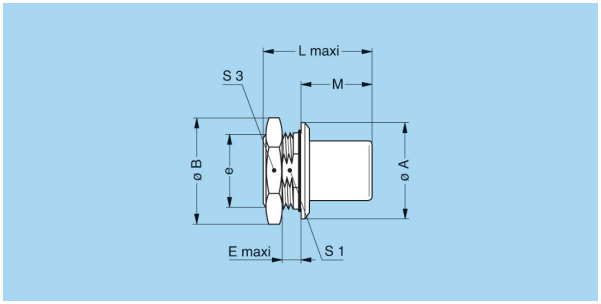
1) Note: To order add a „Z“ at the end of the reference. The bend relief must be ordered separately.

E Serie (wasserdicht) | E Series (watertight)



FAA Einbaustecker ohne Verriegelung.
Befestigung durch Mutter

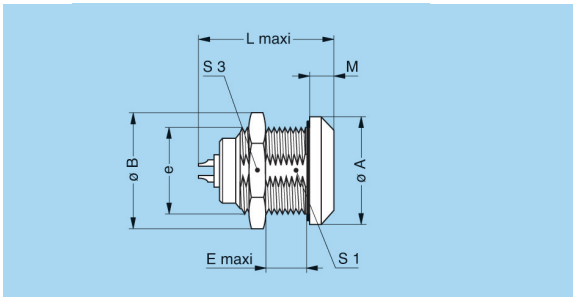
Fixed plug non-latching nut fixing



Reference		Dimensions (mm)							
Model	Series	A	B	e	E	L	M	S1	S3
FFA	0E	18	19.2	M14x1	3.5	19.5	13	12.5	17
FFA	2E	20	21.5	M16x1	3.5	23	16	14.5	19
FFA	2E	25	27	M20x1	4	27	18	18.5	24

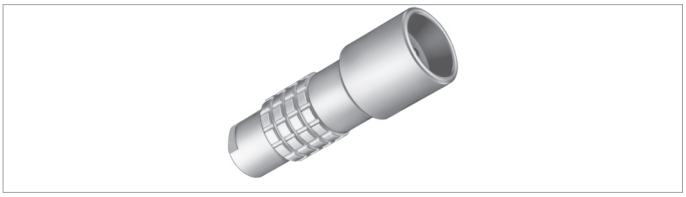
ERA Apparatedose
mit Befestigung durch Mutter

Fixed socket, nut fixing



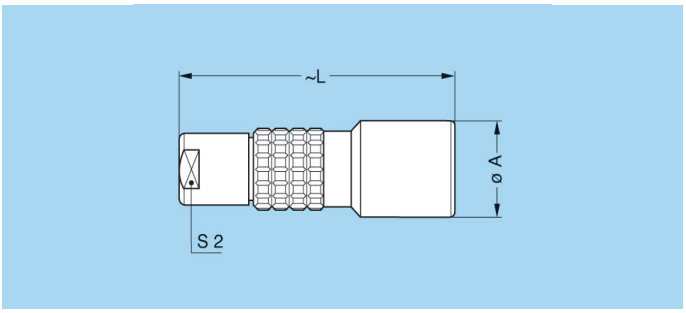
Reference		Dimensions (mm)							
Model	Series	A	B	e	E	L	M	S1	S3
ERA	0E	18	19.2	M14x1	5.5	19.5	4.0	12.5	17.0
ERA	1E	20	21.5	M16x1	9.0	24.0	4.5	14.5	19.0
ERA	2E	25	27.0	M20x1	9.0	28.5	5.0	18.5	24.0

E Serie (wasserdicht) | E Series (watertight)



PCA Kabelkupplung mit Spannzange

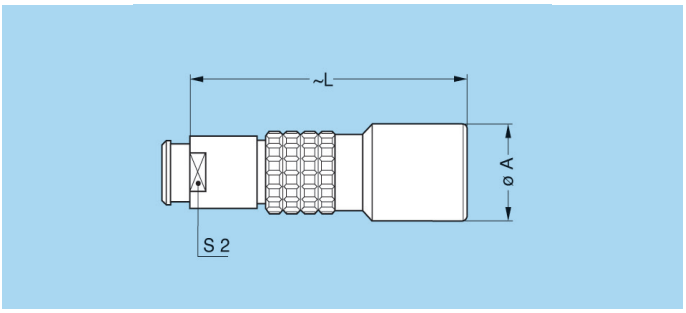
Free socket, cable collet



Reference		Dimensions (mm)		
Model	Series	A	L	S2
PCA	0E	13	34	8
PCA	1E	15	45	9
PCA	2E	19	54	12

PCA Kabelkupplung mit Spannzange und Spannschraube für Knickschutztülle

Free socket, cable collet and nut for fitting a bend relief



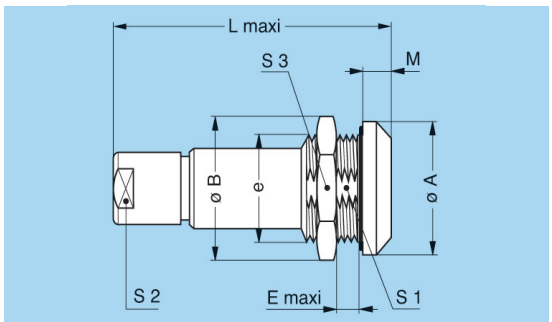
Reference		Dimensions (mm)		
Model	Series	A	L	S2
PCA	0E	13	34	7
PCA	1E	15	45	9
PCA	2E	19	54	12

1) Anmerkung: Zum Bestellen ein „Z“ am Ende des Bestellkennzeichens anfügen. Die Knickschutztülle muss getrennt bestellt werden.

1) Note: To order add a „Z“ at the end of the reference. The bend relief must be ordered separately.

PSA Apparatedose Befestigung durch Mutter Spannzange

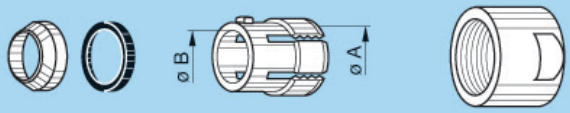
Fixed socket, nut fixing, cable collet



Reference		Dimensions (mm)								
Model	Series	A	B	e	E	L	M	S1	S2	S3
PSA	0E	18	19.2	M14x1	5.5	34	4.0	12.5	8	17.0
PSA	1E	20	21.5	M16x1	9.0	45	4.5	14.5	9	19.0
PSA	2E	25	27.0	M20x1	9.0	54	5.0	18.5	12	24.0

E Serie (wasserdicht) | E Series (watertight)

C type



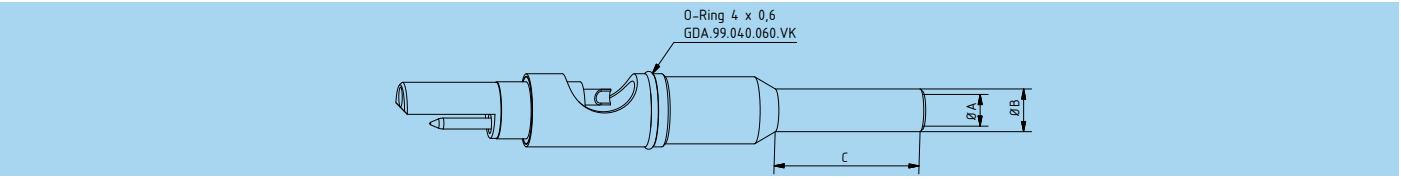
Reference		Series	Collet Ø (mm)		Cable Ø		
Type	Code		Ø A	Ø B	max.	min.	
C	10	0E	1.6	-	1.2	1.0	1)
C	15		1.6	-	1.5	1.3	1)
C	20		2.1	-	2.0	1.6	1)
C	25		3.1	-	2.5	2.1	
C	30		3.1	-	3.0	2.6	
C	35		4.2	4.2	3.5	3.1	
C	40		4.2	4.2	4.0	3.6	
C	45		5.2	5.2	4.5	4.1	
C	50		5.2	5.2	5.0	4.6	

1) Anmerkung:
der Innendurchmesser der kleinsten verfügbaren Knickschutztülle beträgt 2.5 mm.

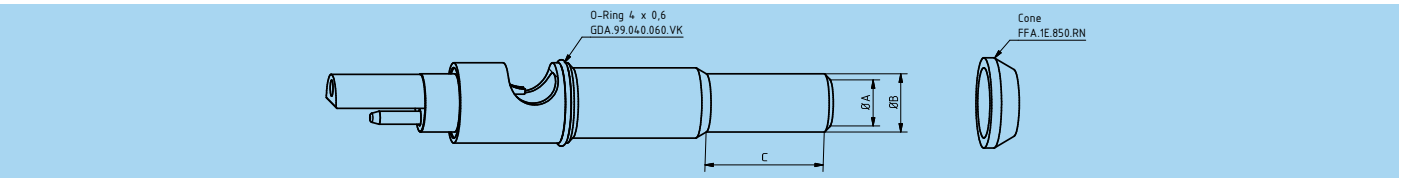
1) Note:
the inner diameter of the smallest bend relief is 2.5 mm.

Reference		Series	Collet Ø (mm)		Cable Ø		
Type	Code		Ø A	Ø B	max.	min.	
C	15	1E	1.6	-	1.5	1.3	
C	20		2.2	-	2.0	1.6	
C	25		3.2	-	2.5	2.1	
C	30		3.2	-	3.0	2.6	
C	35		4.2	-	3.5	3.1	
C	40		4.2	-	4.0	3.6	
C	45		5.2	-	4.5	4.1	
C	50		5.2	-	5.0	4.6	
C	55		6.2	6.2	5.5	5.1	
C	60		6.2	6.2	6.0	5.6	
C	65		7.2	6.7	6.5	6.1	
K	70		7.2	-	7.0	6.6	
K	75		8.2	8.2	7.5	7.1	
K	80		8.2	8.2	8.0	7.6	
K	85		9.2	8.6	8.5	8.1	

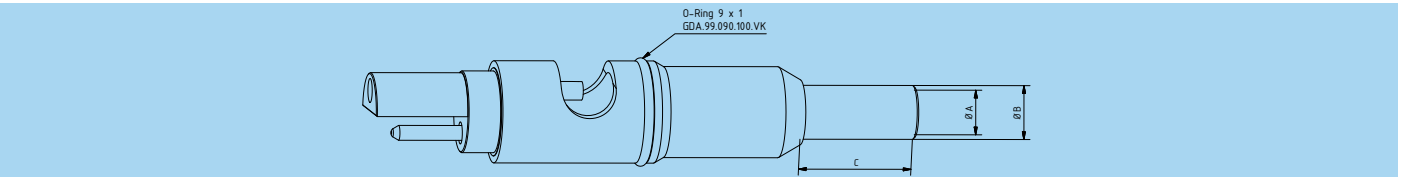
Reference		Series	Collet Ø (mm)		Cable Ø		
Type	Code		Ø A	Ø B	max.	min.	
C	15	2E	2.2	-	1.5	1.3	
C	20		2.2	-	2.0	1.6	
C	25		3.2	-	2.5	2.1	
C	30		3.2	-	3.0	2.6	
C	35		4.2	-	3.5	3.1	
C	40		4.2	-	4.0	3.6	
C	45		5.2	-	4.5	4.1	
C	50		5.2	-	5.0	4.6	
C	55		6.2	-	5.5	5.1	
C	60		6.2	-	6.0	5.6	
C	65		7.2	-	6.5	6.1	
C	70		7.2	-	7.0	6.6	
C	75		8.2	8.2	7.5	7.1	
C	80		8.2	8.2	8.0	7.6	
C	85		9.2	8.6	8.5	8.1	
K	90		9.2	-	9.0	8.6	
K	95		10.2	10.2	9.5	9.1	
K	10		10.2	10.2	10.0	9.6	
K	11		11.2	10.6	10.5	10.1	



Part number Collet	Reference		Series	Dimensions of the Collet (mm)			Ø Thermo-Couple max. (mm)
	Model	Ø		Ø A	Ø B	Ø C	
FFA.0E.702.RNS	R	02	0E	0.25	3.20	12.5	0.2
FFA.0E.705.RNS	R	05		0.50	3.2	12.5	0.45
FFA.0E.710.RNS	R	10		1.00	3.2	12.5	0.95
FFA.0E.711.RNS	R	11		1.10	3.2	12.5	1.05
FFA.0E.712.RNS	R	12		1.20	2.4	12.5	1.15
FFA.0E.716.RNS	R	16		1.60	3.2	12.5	1.55
FFA.0E.720.RNS	R	20		2.00	3.2	12.5	1.95
FFA.0E.726.RNS	R	26		2.60	3.45	12.5	2.55

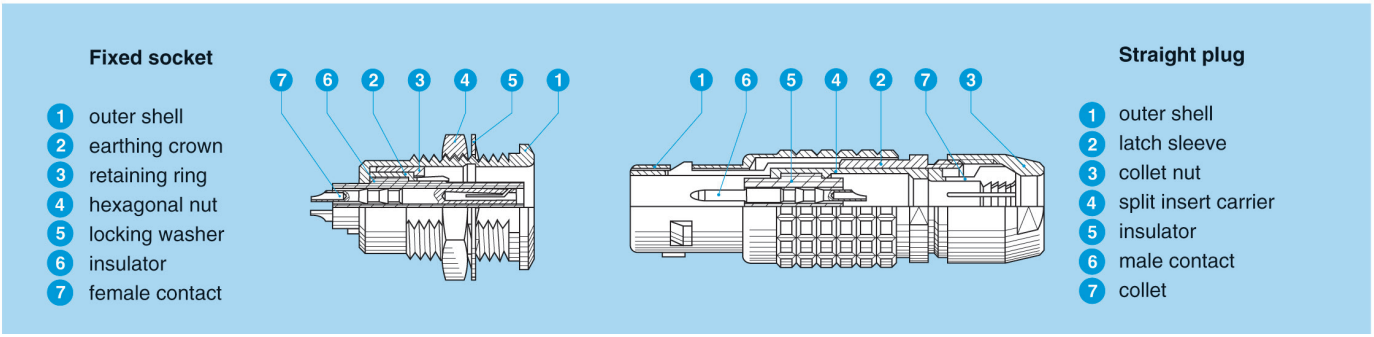


Part number Collet	Reference		Series	Dimensions of the Collet (mm)			Ø Thermo-Couple max (mm)
	Model	Ø		Ø A	Ø B	Ø C	
FFA.1E.716.RNS	R	16	1E	0.6	3.2	10.2	1.55
FFA.1E.720.RNS	R	20		2.0	3.2	10.2	1.95
FFA.1E.731.RNS	R	31		3.1	4.5	11.3	3.05
FFA.1E.733.RNS	R	33		3.3	4.4	11.2	3.25
FFA.1E.736.RNS	R	36		3.6	4.4	11.3	3.55
FFA.1E.746.RNS	R	46		4.6	5.8	12.4	4.55

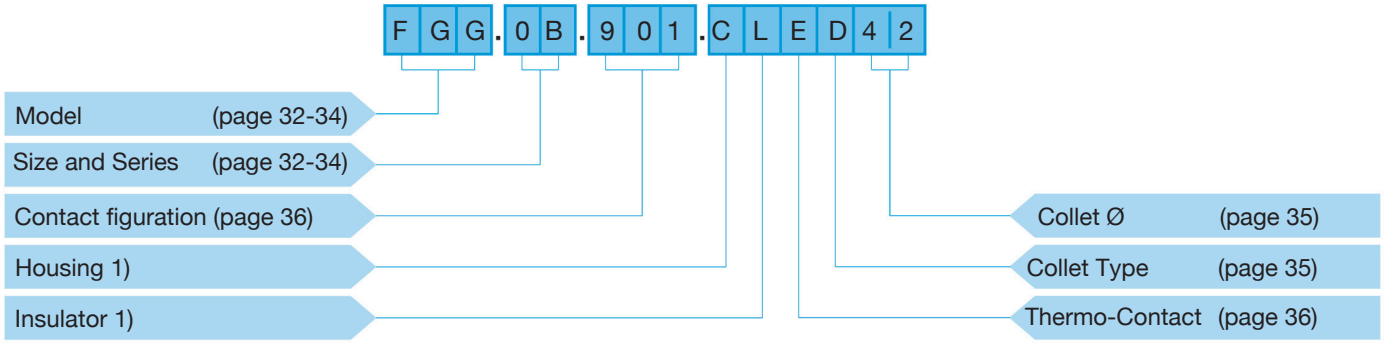


Part number Collet	Reference		Series	Dimensions of the Collet (mm)			Ø Thermo-Couple max (mm)
	Model	Ø		Ø A	Ø B	Ø C	
FFA.2E.746.RNS	R	46	2E	4.60	5.8	12.5	4.55

B Serie | B Series



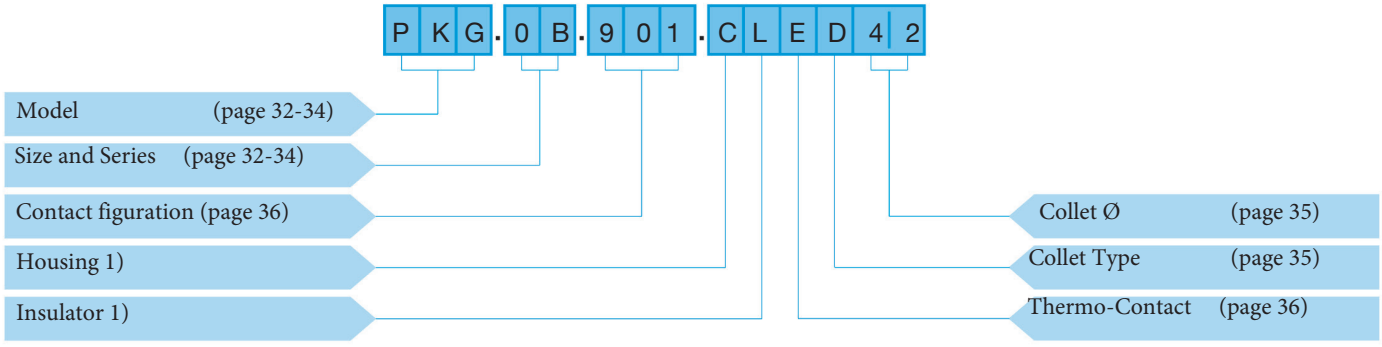
Stecker gerade mit Führungsnocke (G) | Straight plug with key (G)



Stecker gerade mit Führungsnocke (G), Serie B, Größe 0, 2 Kontakte, Außenkörper aus verchromtem Messing Isolationsteil aus PEEK. Thermokontakt Typ E, Spannzange Typ D für Kabeldurchmesser 4.2 mm.

Straight plug with key (G) and cable collet, Series B, size 0, 2 contacts, outer shell in chrome-plated brass. PEEK insulator, Thermocouple type E, D type collet for 4.2 mm cable diameter.

Apparatedose mit Führungsnut (G). Zugentlastung | Fixed socket with key (G), cable collet

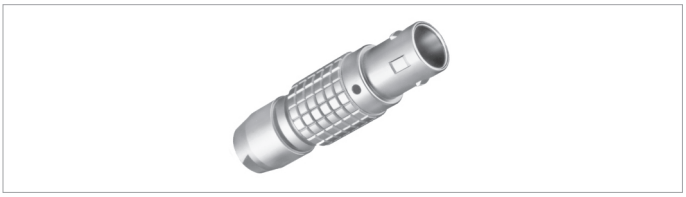


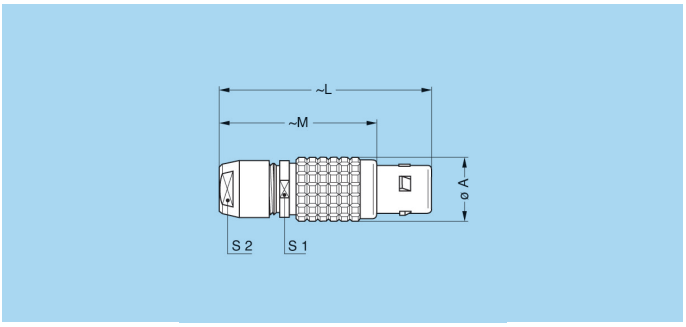
Einbauapparatedose mit Führungsnut (G) und Zugentlastung, Serie B, Größe 0, mehrpolig (2 Kontakte), Außenkörper aus verchromten Messing Massekrone vernickelt, Isolationsteil aus PEEK, Thermokontakt Typ E, Spannzange Typ D für Kabeldurchmesser 4.2 mm.

Fixed socket with key (G) and cable collet, Series B, size 0, 2 contacts, outer shell in chrome-plated brass. PEEK insulator, Thermocouple type E, D type collet for 4.2 mm cable diameter.

1) siehe Produktkatalog „Einpolige/Mehrpolige Steckverbinder“ | 1) see Cataloque „Unipole & Mulitpole Connectors“

B-Serie mit Codierungssystem | B-Series with alignment key and polarized keying system



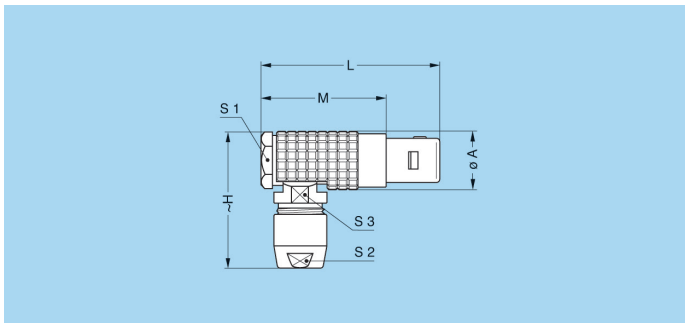


FGG Gerader Stecker mit Führungsnocke (G) oder Kodierung (A bis M und R) Spannzange

Straight plug, key G or keys (A-M and R) cable collet

Reference		Dimensions (mm)				
Model	Series	A	L	M	S1	S2
FGG	00	6.4	28.5	20.5	5.5	5
FGG	0B	9.5	36.0	26.0	8.0	7
FGG	1B	12.0	43.0	32.0	10.0	9
FGG	2B	15.0	50.0	37.0	13.0	12

M1 Assembly instruction: see Unipole/Multipole catalogue
Montageanweisungen: siehe Unipole/Multipole Katalog

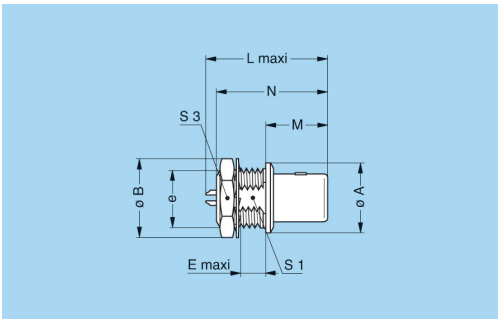


FPG Winkelstecker (90°), Führungsnocke (G) oder Kodierung (A - M und R) Spannzange

Elbow (90°) plug, key G or keys (A - M and R) cable collet

Reference		Dimensions (mm)						
Model	Series	A	H	L	M	S1	S2	S3
FPG	00	7.5	18	24.5	16.5	6.5	5	5.3
FPG	0B	9.5	23	30.0	20.0	8.0	7	8.0
FPG	1B	12.0	29	36.0	25.0	11.0	9	10.0
FPG	2B	15.0	35	41.5	29.5	13.5	12	13.0

M3 Assembly instruction: see Unipole/Multipole catalogue
Montageanweisungen: siehe Unipole/Multipole Katalog



FAG Einbaustecker, ohne Verriegelung Befestigung durch Mutter Führungsnocke (G) oder Kodierung (A - M und R)

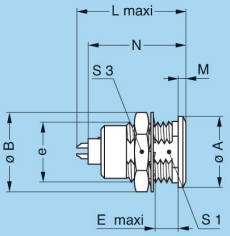
Fixed plug, non-latching, nut fixing with key (G) or keys (A-M and R)

Reference		Dimensions (mm)								
Model	Series	A	B	e	E	L	M	N	S1	S3
FAG	00	8	10.2	M7x0.5	2.9	15.5	9.0	14.5	6.3	9
FAG	0B	10	12.5	M9x0.6	3.5	20.0	11.2	18.0	8.2	11
FAG	1B	14	16.0	M12x 1	7.0	26.5	12.5	22.5	10.5	14
FAG	2B	18	19.5	M15x 1	7.0	25.5	13.8	23.5	13.5	17

P1 Panel cut out: see Unipole/Multipole catalogue
Bohrplan der Frontplatte: siehe Unipole/Multipole Katalog

EGG Apparatedose mit Führungsnocke (G) oder Kodierung (Code A...M und R) Befestigung mit Mutter

Fixed socket with key G or keys (code A...M and R)

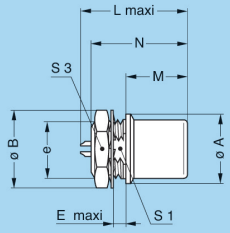


Reference		Dimensions (mm)								
Model	Series	A	B	e	E	L	M	N	S1	S3
EGG	00	8	10.3	M7x0.5	5.5	15.5	1.0	12	6.3	9
EGG	0B	10	12.5	M9x0.6	7	19.5	1.2	17.5	8.2	11
EGG	1B	14	16	M12x 1	7.5	21.7	1.5	19.5	10.5	14
EGG	2B	18	20	M15x 1	8.5	25	1.8	21.5	13.5	17

P1 Panel cut out: see Unipole/Multipole catalogue
Bohrplan der Frontplatte: siehe Unipole/Multipole Katalog

EHG Apparatedose mit Führungsnocke (G) oder Kodierung (Code A...M und R) Befestigung mit Mutter Körper vorstehend

Fixed socket with key G or keys (code A...M and R) with visible shell

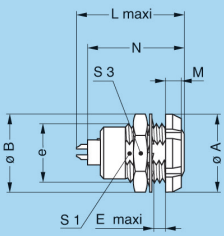


Reference		Dimensions (mm)								
Model	Series	A	B	e	E	L	M	N	S1	S3
EHG	00	8.8	10.3	M7x0.5	2	15.5	8.5	13.7	6.3	9
EHG	0B	10	12.5	M9x0.6	2.5	19.5	12.5	19.1	8.2	11
EHG	1B	14	16	M12x 1	4.2	21.7	12.5	20.8	10.5	14
EHG	2B	18	19.5	M15x 1	5.2	22.7	12.5	24.3	13.5	17

P1 Panel cut out: see Unipole/Multipole catalogue
Bohrplan der Frontplatte: siehe Unipole/Multipole Katalog

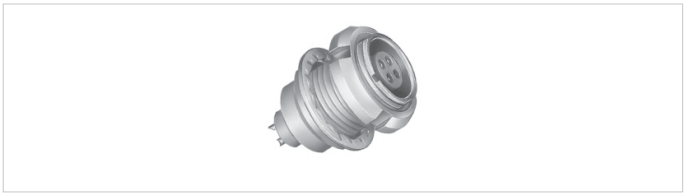
ECG Apparatedose mit Führungsnocke (G) oder Kodierung (A...M und R) Befestigung mit Mutter (von der Rückseite der Frontplatte montierbar)

Fixed socket with two fixing nuts with key G or keys (code A...M and R) (back panel mounting)



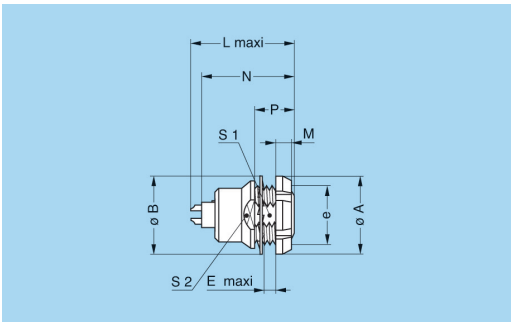
Reference		Dimensions (mm)								
Model	Series	A	B	e	E	L	M	N	S1	S3
ECG	00	10	10.2	M7x0.5	4.3	13.7	2.5	13.7	6.3	9
EGG	0B	12	12.4	M9x0.6	5.5	20.7	2.5	19.1	8.2	11
ECG	1B	16	15.8	M12x 1	6.0	23.3	3.5	21.1	10.5	14
ECG	2B	20	19.2	M15x 1	6.5	26.7	3.5	24.6	13.5	17

P1 Panel cut out: see Unipole/Multipole catalogue
Bohrplan der Frontplatte: siehe Unipole/Multipole Katalog



EEG Apparatedose mit Führungsnocke (G) oder Kodierung (Code A...M und R) Befestigung mit Mutter (von der Rückseite der Frontplatte montierbar)

Fixed socket with key G or keys (code A...M and R) back panel mounting)

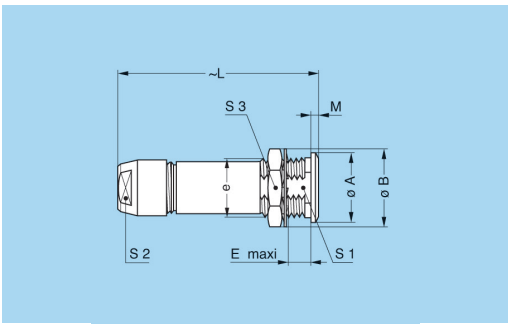


Reference		Dimensions (mm)									
Model	Series	A	B	e	E	L	M	N	P	S1	S3
EEG	00	10	9.5	M7x0.5	2.3	15.5	2.5	13.7	6.0	6.3	7.5
EEG	0B	12	12.5	M9x0.6	2.4	20.7	2.5	19.1	6.3	8.2	9.0
EEG	1B	16	16.0	M12x 1	6.0	23.0	3.5	21.1	11.0	10.5	13.0
EEG	2B	20	20.0	M15x 1	4.2	26.7	3.5	24.6	9.0	13.5	15.0

P1 Panel cut out: see Unipole/Multipole catalogue
Bohrplan der Frontplatte: siehe Unipole/Multipole Katalog

PKG Apparatedose, Befestigung mit Mutter mit Führungsnocke (G) oder Kodierung (Code A...M und R) Zugentlastung

Fixed socket, nut fixing, with key G or keys (code A...M and R) cable collet



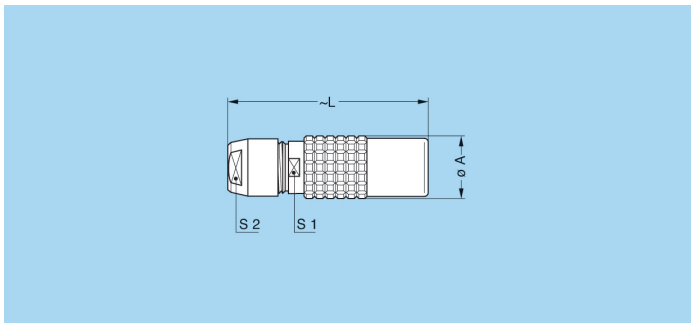
Reference		Dimensions (mm)								
Model	Series	A	B	e	E	L	M	S1	S2	S3
PKG	00	8	10.2	M7x0.5	6.5	26.0	1.0	6.3	5	9
PKG	0B	10	12.4	M9x0.6	7	35.5	1.2	8.2	7	11
PKG	1B	14	15.8	M12x 1	7.5	40.5	1.5	10.5	9	14
PKG	2B	18	19.2	M15x 1	8.5	47.0	1.8	13.5	12	17

M1 Assembly instruction: see Unipole/Multipole catalogue
Montageanweisungen: siehe Unipole/Multipole Katalog

P1 Panel cut out: see Unipole/Multipole catalogue
Bohrplan der Frontplatte: siehe Unipole/Multipole Katalog

PHG Kupplung mit Führungsnocke (G) oder Kodierung (A - M und R) Spannzange

Free socket. key (G) or keys (A - M and R) cable collet

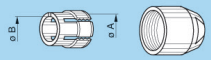


Reference		Dimensions (mm)			
Model	Series	A	L	S1	S3
PHG	00	6.8	26.0	5.5	5
PHG	0B	9.5	35.5	8.0	7
PHG	1B	12.5	40.5	10.0	9
PHG	2B	16.5	47.0	13.0	12

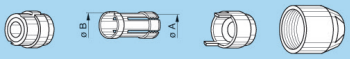
M1 Assembly instruction: see Unipole/Multipole catalogue
Montageanweisungen: siehe Unipole/Multipole Katalog

B Serie | B Series

D type



M type



Reference		Series	Collet Ø (mm)		Cable Ø		Notes
Type	Code		Ø A	Ø B	max.	min.	
D	22	00	2.2	–	2.2	1.4	
D	27		2.7	–	2.7	>2.2	
D	35		3.5	2.8	3.5	>2.7	
D	22	0B	2.1	–	2.2	1.4	2)
D	32		3.2	–	3.2	>2.2	
D	42		4.2	–	4.2	>3.2	
D	52		5.2	4.7	5.2	>4.2	
D	56		5.6	4.7	5.6	>5.2	1)

Reference		Series	Collet Ø (mm)		Cable Ø		Notes
Type	Code		Ø A	Ø B	max.	min.	
M	27	1B	2.7	–	2.7	>2.2	
M	31		3.1	–	3.1	>2.7	
D	42		4.2	–	4.2	3.1	
D	52		5.2	–	5.2	>4.2	
D	62		6.2	–	6.2	>5.2	
D	72		7.2	6.2	7.2	>6.2	
D	76		7.6	6.9	7.6	>7.2	1)
M	21	2B	2.1	–	2.2	1.4	3)
M	32		3.1	–	3.2	>2.2	3)
D	42		4.2	–	4.2	3.2	
D	52		5.2	–	5.2	>4.2	4)
D	62		6.2	–	6.2	>5.2	
D	72		7.2	–	7.2	>6.2	
D	82		8.2	–	8.2	>7.2	
D	92		9.2	8.6	9.2	>8.2	
D	99		9.9	8.6	9.9	>9.2	1)

Anmerkung: alle Maße in mm.

Note: all diameters are in millimetres.

1) Diese Spannzangen passen nicht zu Steckverbindermodellen mit Mutter zum Befestigungen einer Knickschutztülle.

1) These collets cannot be used for connector models with nut for fitting a bend relief.

2) Der Innendurchmesser der kleinsten verfügbaren Knickschutztülle ist 2.5 mm (TPU) / 1.7 mm (Silikon)

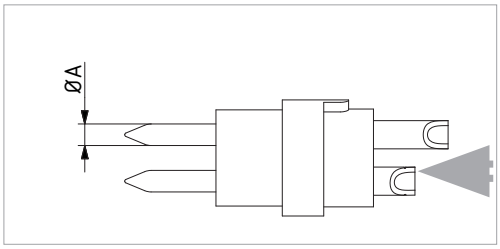
2) The inner diameter of the smallest bend relief is 2.5 mm (in TPU) / 1.7 mm (in silicone).

3) Für 0B Knickschutztülle | for 0B bend relief.

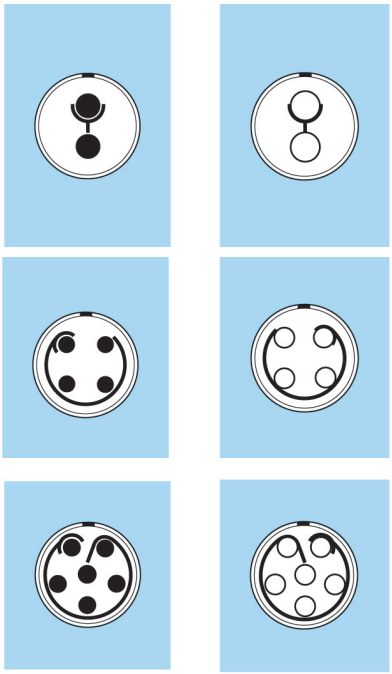
4) Für 1B Knickschutztülle | for 1B bend relief.

TH-Kontaktfiguration B Serie | TH-Contact figuration B Series

Lötkontakte | Soldering Contacts



Male Female



Reference	Serie	Number of contact	Contact-Ø ØA (mm)	Max. Conductor-Ø	Contact-No.	Thermo contact Type			
						E	J	K	T
901	00	2	0.5	0.4	1 2		- -	- -	- -
	0B	2	0.9	0.8	1 2	EP EN	JP JN	KP KN	TP TN
	1B	2	1.3	1.0	1 2	EP EN	JP JN	KP KN	TP TN
	2B	2	2.0	1.8	1 2	EP EN	JP JN	KP KN	TP TN
902	0B	4	0.7	0.6	1-3 2-4	EP EN	JP JN	KP KN	TP TN
	1B	4	0.9	0.8	1-3 2-4	EP EN	JP JN	KP KN	TP TN
	2B	4	1.3	1.0	1-3 2-4	EP EN	JP JN	KP KN	TP TN
903	1B	6	0.7	1.0	1-3-5 2-4-6	EP EN	JP JN	KP KN	TP TN
	2B	6	1.3	1.0	1-3-5 2-4-6	EP EN	JP JN	KP KN	TP TN

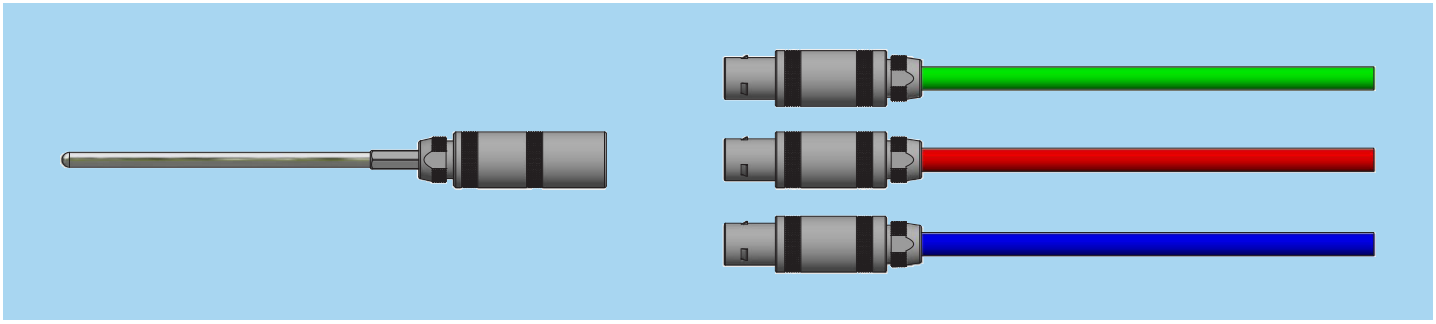
Anmerkung | Note:

N = negative

P = positive

*alte Version | *old version

Konfektionierungs-Beispiel Typ K (NiCr-Ni) | Cable assembly example type K (NiCr-Ni)



Magnetische Polanordnung | Magnetic pole configuration

Thermomaterial | Thermo material:
Ni – Pol weiß magnetisch | - Pole white magnetic
NiCr + Pol grün nicht magnetisch | + Pole green non magnetic

Ausgleichsmaterial | Compensating material:
Fe + Pol schwarz magnetisch | + Pole black magnetic
CuNi - Pol weiß nicht magnetisch | – Pole white non magnetic

Kontaktanordung | Configuration

Nr. Code	Material	Material	Polarität Polarity
E	Ni-Cr Ko	Chromel Konstantan	EP (+) EN (-)
J	Fe Ko	Eisen Konstantan	JP (+) JN (-)
K	Ni-Cr Ni	Chromel Alumel	KP (+) KN (-)
T	Cu Ko	Kupfer Konstantan	TP (+) TN (-)

Farbmarkierung Iso-S Serie | Colorindication Iso-S Series

FFA = gelbe Nummer | Yellow number

PCA, PSA, ERA } = weiße Nummer | White number

N = Pole negative (-) P = Pole positive (+)
N = Pol Negativ (-) P = Pol Positiv (+)

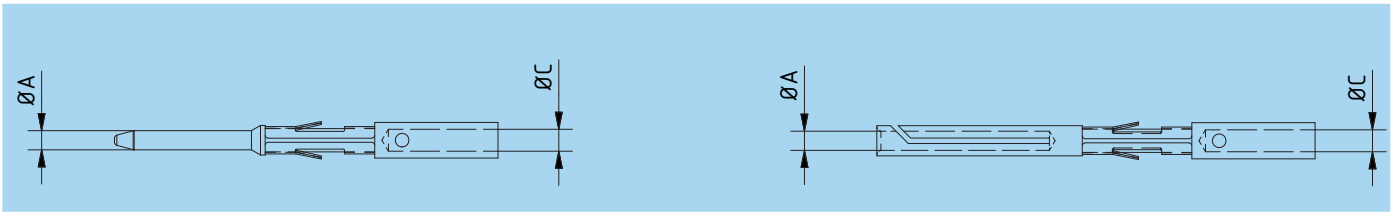
1) Alumel (Nickel, Aluminium und Mangan) | Alumel (nickel, aluminium and manganese)
2) Chromel (Nickel und Chrom) | Chromel (nickel and chrome)
3) Konstantan (Kupfer und Nickel) | constantan (copper and nickel)
4) Kupfer | Copper
5) Eisen | Iron

Siehe auch Tabelle TH-Kontaktanordnung: S Serie | See also table TH-Contact figuration: S Series

Crimptechnik | Crimping Technology

Markierung der TH-Materialien (Rillen) | TH-material mark (groove)

Crimpkontakte – TH-Material | Crimpcontacts – TH-material



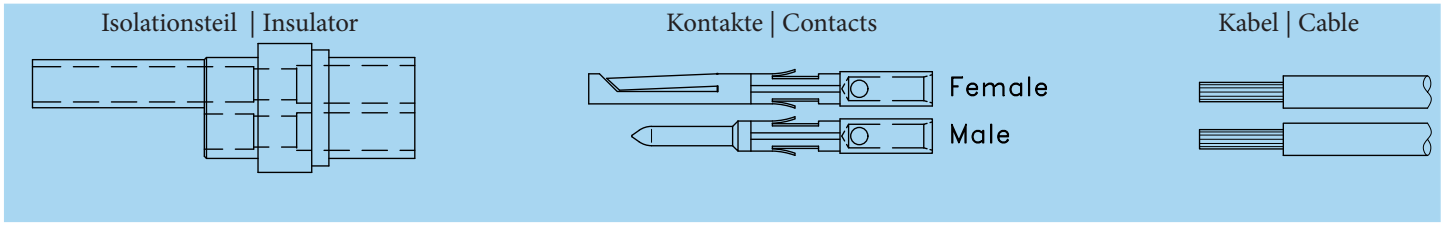
Series	Reference	Ø A (mm)	Ø C (mm)	Male	Female	TH-Material
0S 0E	901 902	0,9	1,1	FGG.0B.560.ZZK	EGG.0B.660.ZZK	NiCr (Chromel) (+)
				FGG.0B.560.ZZF	EGG.0B.660.ZZF	Ni (Alumel) (-)
				FGG.0B.560.ZZV	EGG.0B.660.ZZV	Cu (Copper) (+)
				FGG.0B.560.ZZE	EGG.0B.660.ZZE	CuNi (Constantan) (-)
		0,7	0,8	FGG.0B.555.ZZK	EGG.0B.655.ZZK	NiCr (Chromel) (+)
				FGG.0B.555.ZZF	EGG.0B.655.ZZF	Ni (Alumel) (-)
				FGG.0B.555.ZZV	EGG.0B.655.ZZV	Cu (Copper) (+)
				FGG.0B.555.ZZE	EGG.0B.655.ZZE	CuNi (Constantan) (-)
1S 1E	901	1,3	1,4	FGG.1B.565.ZZK	EGG.1B.665.ZZK	NiCr (Chromel) (+)
				FGG.1B.565.ZZF	EGG.1B.665.ZZF	Ni (Alumel) (-)
				FGG.1B.569.ZZV	EGG.1B.665.ZZV	Cu (Copper) (+)
				FGG.1B.565.ZZE	EGG.1B.665.ZZE	CuNi (Constantan) (-)
	903	0.7	0.8	FGG.1B.555.ZZK	EGG.1B.655.ZZK	NiCr (Chromel) (+)
				FGG.1B.555.ZZF	EGG.1B.655.ZZF	Ni (Alumel) (-)
2S 2E	902 903	1,3	1,4	FGG.2B.565.ZZK	EGG.2B.665.ZZK	NiCr (Chromel) (+)
				FGG.2B.565.ZZF	EGG.2B.655.ZZF	Ni (Alumel) (-)

1) Alumel (Nickel, Aluminium und Mangan) | Alumel (nickel, aluminium and manganese)
2) Chromel (Nickel und Chrom) | Chromel (nickel and chrome)
3) Konstantan (Kupfer und Nickel) | constantan (copper and nickel)
4) Kupfer | Copper

* Auf Anfrage | on request

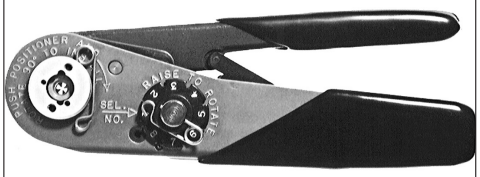
Crimp-Information

(Crimptechnik | Crimping Technology)



Manuelle Crimp-Werkzeuge | Manual Crimping Tools

Fig. A



Part number	Supplier
Contact Ø 0.5-0.7 0.9-1.3 (Fig. A)	
DPC.91.701.V [1)]	LEMO
MH860 [1)]	DANIELS
616336 [1)]	ASTRO

1) gemäß Norm MIL-C-22520/7-01 | According to specification MIL-C-22520/7-01

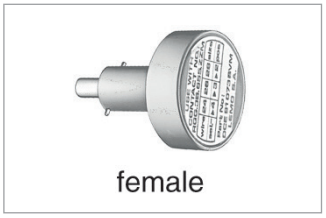
Pneumatik Crimp-Werkzeuge | Pneumatic Crimping Tools

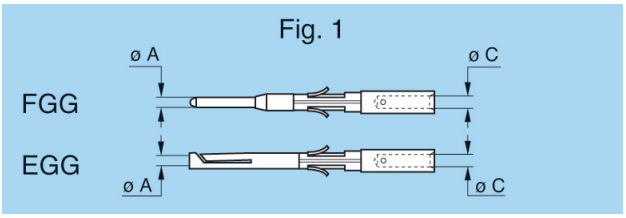
Partnumber	Supplier
DPC.91.701.C	LEMO
85230	BALMAR
621101	BUCHANAN

gemäß Spezifikation MIL-22520/7-01; für LEMO Kontakte; Ø 0.5-0.7-0.9-1.3 mm.

According to specificaton MIL-C-22520/7-01, for LEMO contacts; Ø 0.5-0.7-0.9-1.3 mm.

DCE Positionierer für Crimp-Kontakte mit Ø 0.7-0.9 und 1.3 mm
DCE Positionierer for Crimp Contacts Ø 0.7-0.9 und 1.3 mm





Anmerkung:
Diese Positionierer passen zu den manuellen und zu den pneumatischen Crimp-Werkzeugen gemäß der Norm MIL-C-22520/7-01.

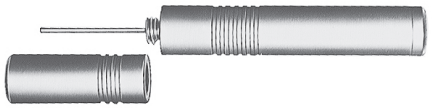
Note:
These positioners are suitable for use with both manual and pneumatic crimping tools according to the MIL-C-22520/7-01 standard.

Series	Reference	Ø A (mm)	Ø C (mm)	Conductor AWG	Extractors part number for male and female contacts	
					For male contact	For female contact
0S 0E	901	0.9	1.1	20-22-24	DCE.91.090.BVC	DCE.91.090.BVM
	902	0.7	0.8	22-24-26	DCE.91.070.BVC	DCE.91.070.BVM
1S 1E	901	1.3	1.4	18-20	DCE.91.131.BVC	DCE.91.131.BVM
	902	0.9	1.1	20-22-24	DCE.91.091.BVC	DCE.91.091.BVM
	903	0.7	0.8	22-24-26	DCE.91.071.BVC	DCE.91.071.BVM
2S 2E	902 903	1.3	1.4	18-20	DCE.91.132.BVC	DCE.91.132.BVM

DCF Aussstoßwerkzeuge für Crimp-Kontakte | DCF Extraction tools for crimp contact

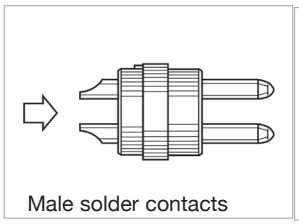
Series	Connector		Extractor part number (Automatic model) for male and female contacts
	Reference	Contact Ø A (mm)	
0S 0E	901	0.9	DCF.93.090.4LT
	902	0.7	DCF.93.070.4LT
1S 1E	901	1.3	DCF.93.131.4LT
	902	0.9	DCF.93.090.4LT
	903	0.7	DCF.93.070.4LT
2S 2E	902 903	1.3	DCF.93.131.4LT

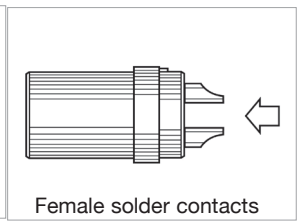
Automatik - Modell | Automatic Model

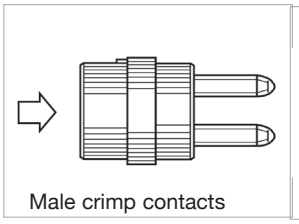


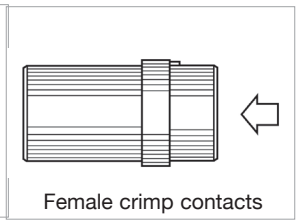
Crimptechnik | Crimping Technology

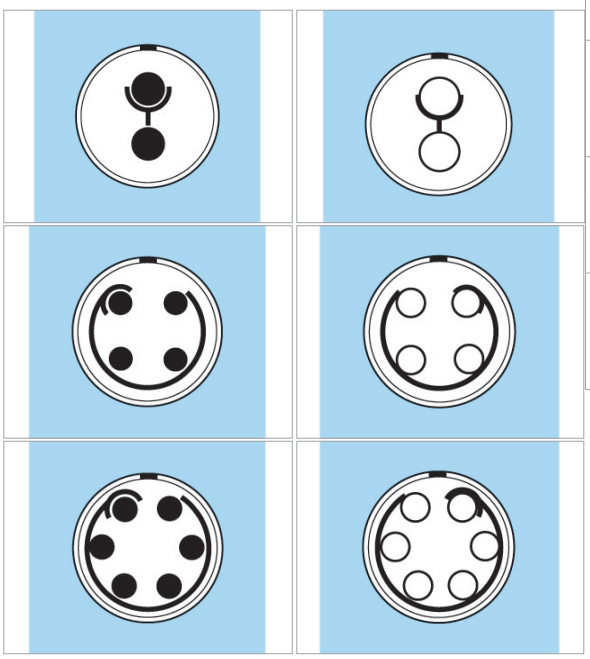
Mehrpolig | Multipole











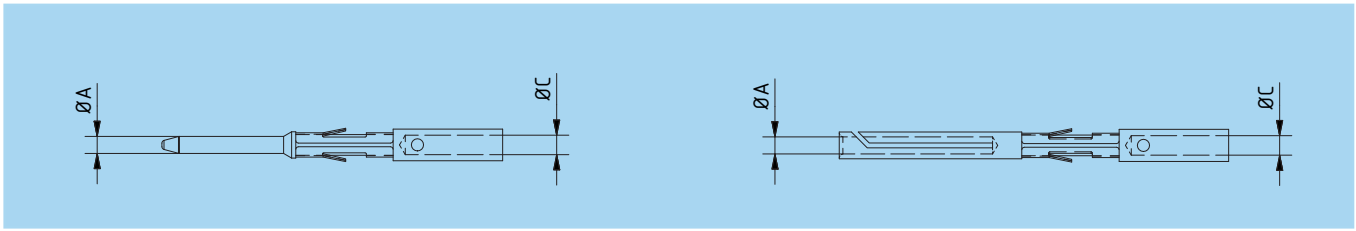
Serie	Reference	Number of contacts	Contact type					Solder contact		Crimp contact		
			Ø A (mm)	Solder	Crimp	Print (straight)	Print (elbow)	Contact- Test voltage (kW rms) contact	Test voltage (kW rms) Contact-shell	Test voltage (kW rms) Contact-contact	Test voltage (kW rms) Contact-shell	Rated current (A)
0B 0K	901	2	0,9	b	b	b	b	1,30	1,05	1,45	1,20	10,0
	902	4	0,7	b	b	b	b	0,85	0,70	1,35	1,10	7,0
	903	6	0,5	b	b	b	b	0,85	0,65	1,40	1,20	2,5
1B 1K	901	2	1,3	b	b	b	b	1,50	1,35	1,70	1,45	15,0
	902	4	0,9	b	b	b	b	1,35	1,45	1,70	1,80	10,0
	903	6	0,7	b	b	b	b	1,05	1,20	1,35	1,45	7,0
2B 2K	901	2	2,0	b	b	b	B	2,10	1,75	2,85	2,70	30,0
	902	4	1,3	b	b	b	b	1,85	1,85	2,20	2,20	15,0
	903	6	1,3	b	b	b	b	1,35	1,45	2,00	2,35	12,0

*Auch mit Keramik-Isolationsteil verfügbar (nur Crimpversion) | Also available with ceramic insulator (crimp only).
b) Alternative erste Wahl. | First choice alternative. B) Alternative Sonderbestellung. | Special order alternative.

Markierung der TH-Materialien (Rillen) | TH-Material mark (groove)

* Auf Anfrage | * on request

Crimpkontakte TH-Material | Crimpcontacts TH-Material



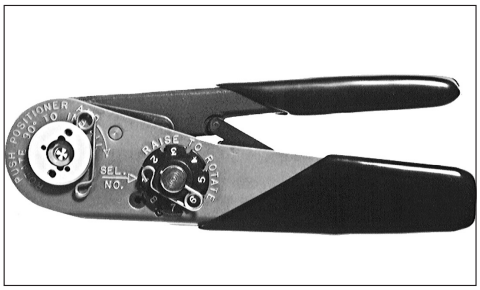
Series	Reference	Ø A (mm)	Ø C (mm)	Male	Female	TH-Material
0B 0K	901	0.9	1.1	FGG.0B.560.ZZK	EGG.0B.660.ZZK	NiCr (Chromel (+)
		0.9	1.1	FGG.0B.560.ZZF	EGG.0B.660.ZZF	Ni (Alumel (-)
		0.9	1.1	FGG.0B.560.ZZV	EGG.0B.660.ZZV	Cu (Kupfer) (+)
		0.9	1.1	FGG.0B.560.ZZE	EGG.0B.660.ZZE	CuNi (Konstantan) (-)
	902	0.7	0.8	FGG.0B.555.ZZK	EGG.0B.655.ZZK	NiCr (Chromel (+)
		0.7	0.8	FGG.0B.555.ZZF	EGG.0B.655.ZZF	Ni (Alumel (-)
		0.7	0.8	FGG.0B.555.ZZV	EGG.0B.655.ZZV	Cu (Kupfer) (+)
		0.7	0.8	FGG.0B.555.ZZE	EGG.0B.655.ZZE	CuNi (Konstantan) (-)
1B 1K	901	1.3	1.4	FGG.1B.565.ZZK	EGG.1B.665.ZZK	NiCr (Chromel (+)
		1.3	1.4	FGG.1B.565.ZZF	EGG.1B.665.ZZF	Ni (Alumel) (-)
		1.3	1.4	FGG.1B.569.ZZV	EGG.1B.665.ZZV	Cu (Kupfer) (+)
		1.3	1.4	FGG.1B.565.ZZE	EGG.1B.665.ZZE	CuNi (Konstantan) (-)
	903	0.7	0.8	FGG.1B.555.ZZK	EGG.1B.655.ZZK	NiCr (Chromel (+)
		0.7	0.8	FGG.1B.555.ZZF	EGG.1B.655.ZZF	Ni (Alumel (-)

1) Alumel (Nickel, Aluminium und Mangan) | Alumel (nickel, aluminium and manganese)
2) Chromel (Nickel und Chrom) | Chromel (nickel and chrome)
3) Konstantan (Kupfer und Nickel) | constantan (copper and nickel)
4) Kupfer | Copper

Crimp-Information

(Crimptechnik | Crimping Technology)

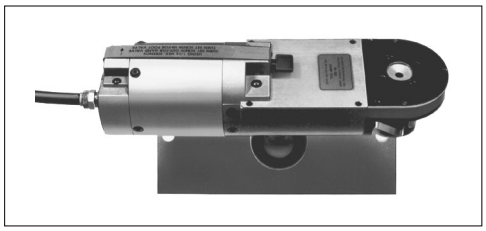
Manuelle Crimp-Werkzeuge | Manual Crimping Tools



Part number	Supplier
Contact Ø 0.5-0.7 0.9-1.3 (Fig. A)	
DPC.91.701.V [1)]	LEMO
MH860 [1)]	DANIELS
616336 [1)]	ASTRO

1) gemäß Norm MIL-C-22520/7-01 | According to specification MIL-C-22520/7-01

Pneumatik Crimp-Werkzeuge | Pneumatic Crimping Tools

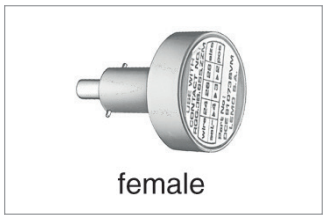


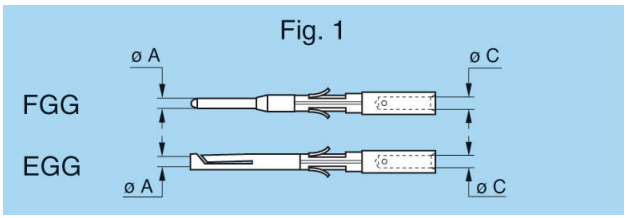
Partnumber	Supplier
DPC.91.701.C	LEMO
85230	BALMAR
621101	BUCHANAN

gemäß Spezifikation MIL-22520/7-01; für LEMO Kontakte; Ø 0.5-0.7-0.9-1.3 mm.

According to specificaton MIL-C-22520/7-01, for LEMO contacts; Ø 0.5-0.7-0.9-1.3 mm.

DCE Positionierer für Crimp-Kontakte mit Ø 0.7-0.9 und 1.3 mm
DCE Positionierer for Crimp Contacts Ø 0.7-0.9 und 1.3 mm





Anmerkung:
Diese Positionierer passen zu den manuellen und zu den pneumatischen Crimp-Werkzeugen gemäß der Norm MIL-C-22520/7-01.

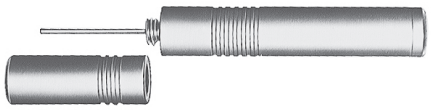
Note:
These positioners are suitable for use with both manual and pneumatic crimping tools according to the MIL-C-22520/7-01 standard.

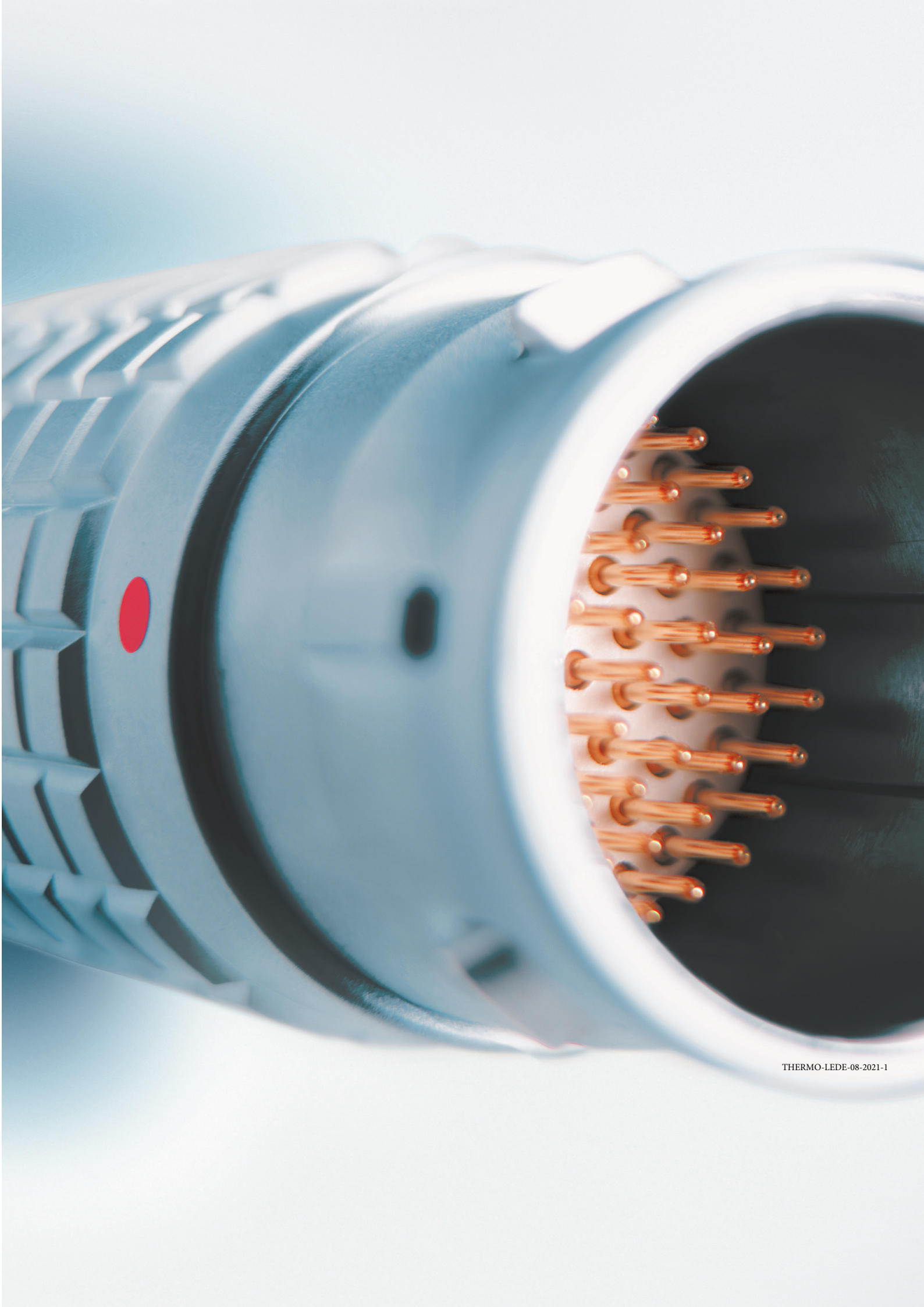
Series	Reference	Ø A (mm)	Ø C (mm)	Conductor AWG	Positionierer part number for male and female contacts	
					For male contact	For female contact
0B 0K	901	0.9	1.1	20-22-24	DCE.91.090.BVC	DCE.91.090.BVM
	902	0.7	0.8	22-24-26	DCE.91.070.BVC	DCE.91.070.BVM
1B 1K	901	1.3	1.4	18-20	DCE.91.131.BVC	DCE.91.131.BVM
	902	0.9	1.1	20-22-24	DCE.91.091.BVC	DCE.91.091.BVM
	903	0.7	0.8	22-24-26	DCE.91.071.BVC	DCE.91.071.BVM
2B 2K	902 903	1.3	1.4	18-20	DCE.91.132.BVC	DCE.91.132.BVM

DCF Aussstoßwerkzeuge für Crimp-Kontakte | DCF Extraction tools for crimp contact

Series	Connector		Extractor part number (Automatic model) for male and female contacts
	Reference	Contact Ø A (mm)	
0B 0K	901	0.9	DCF.91.090.2LT
	902	0.7	DCF.92.070.3LT
1B 1K	901	1.3	DCF.93.131.4LT
	902	0.9	DCF.91.090.2LT
	903	0.7	DCF.91.070.2LT
2B 2K	902 903	1.3	DCF.91.131.2LT

Automatik - Modell | Automatic Model





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