Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

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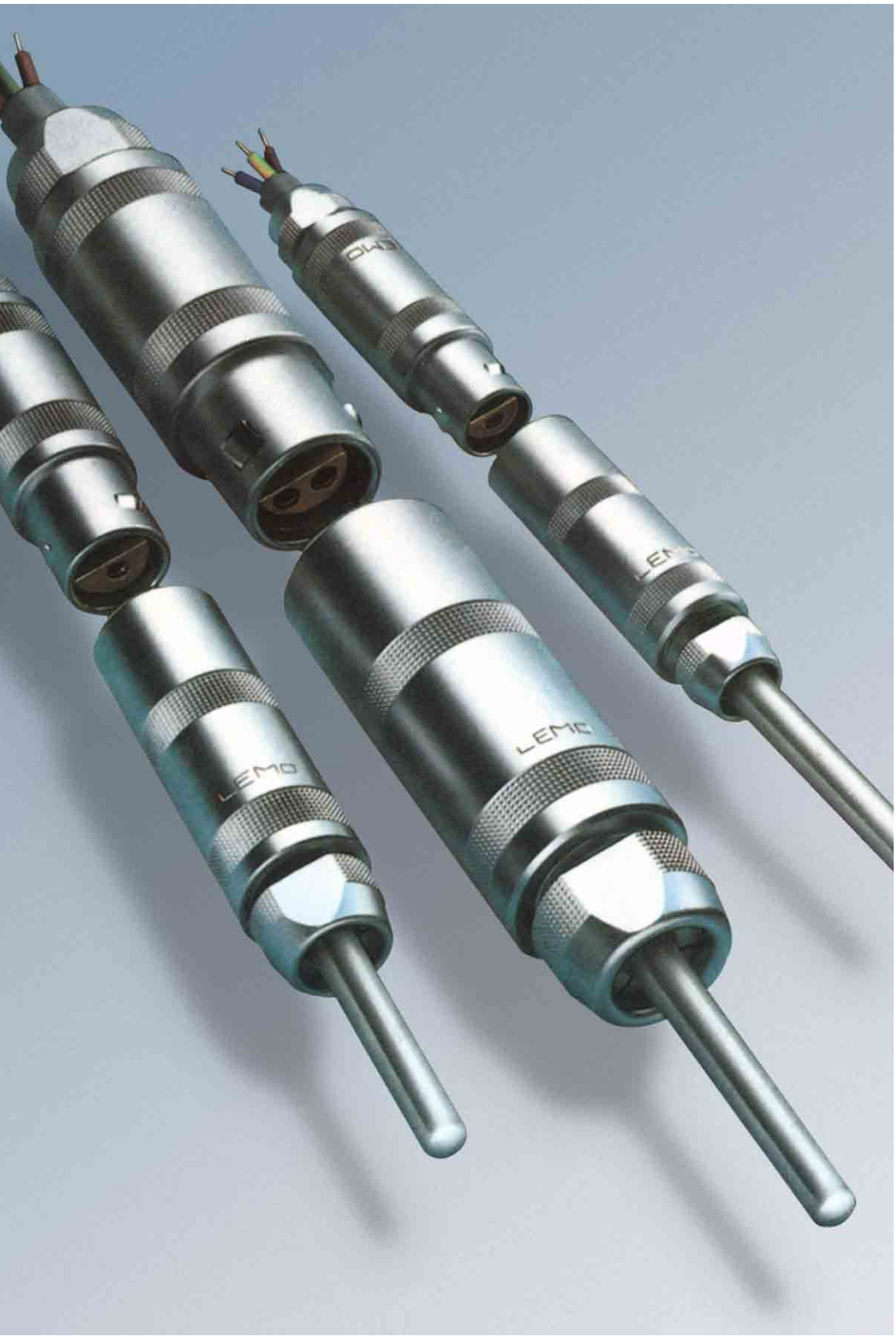
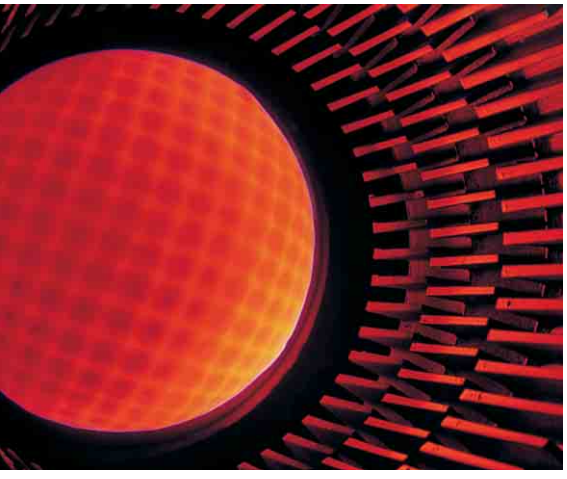
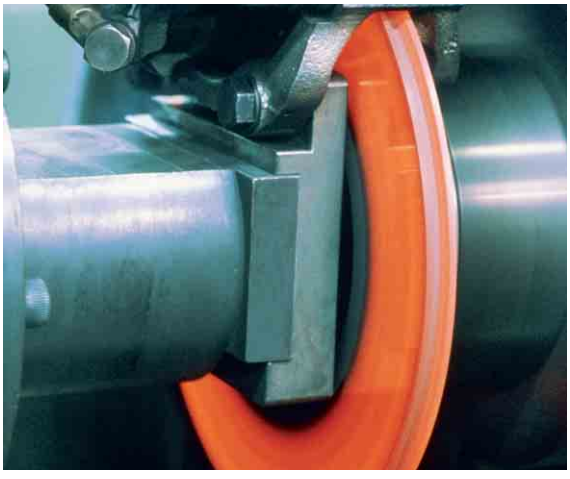






CONNECTORS FOR THE HIGHEST TEMPERATURE RANGE

STECKVERBINDUNGEN FÜR HÖCHSTE TEMPERATUR-MESSBEREICHE

THERMO SERIES

LEMO®

Insight of our production
Einblicke in unsere Fertigung

Vacuumtest with leakdetector

Vakuumtest mit Leakdetektor

Cable assembling and system technology

Konfektionieren von Steckverbindungen und Systemtechnologie

Vacuumtight sealed sockets with Ni-Cr/Ni contacts

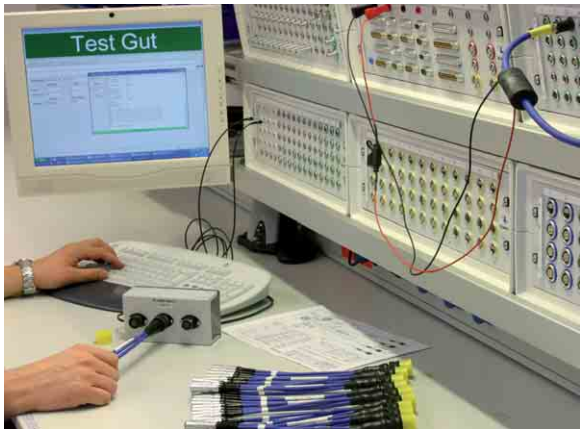
Hochvakuumdichte Apparatedosen mit Ni-Cr/Ni-Kontakten

Cable overmold technology

Umspritzen für Kabelzugentlastungen

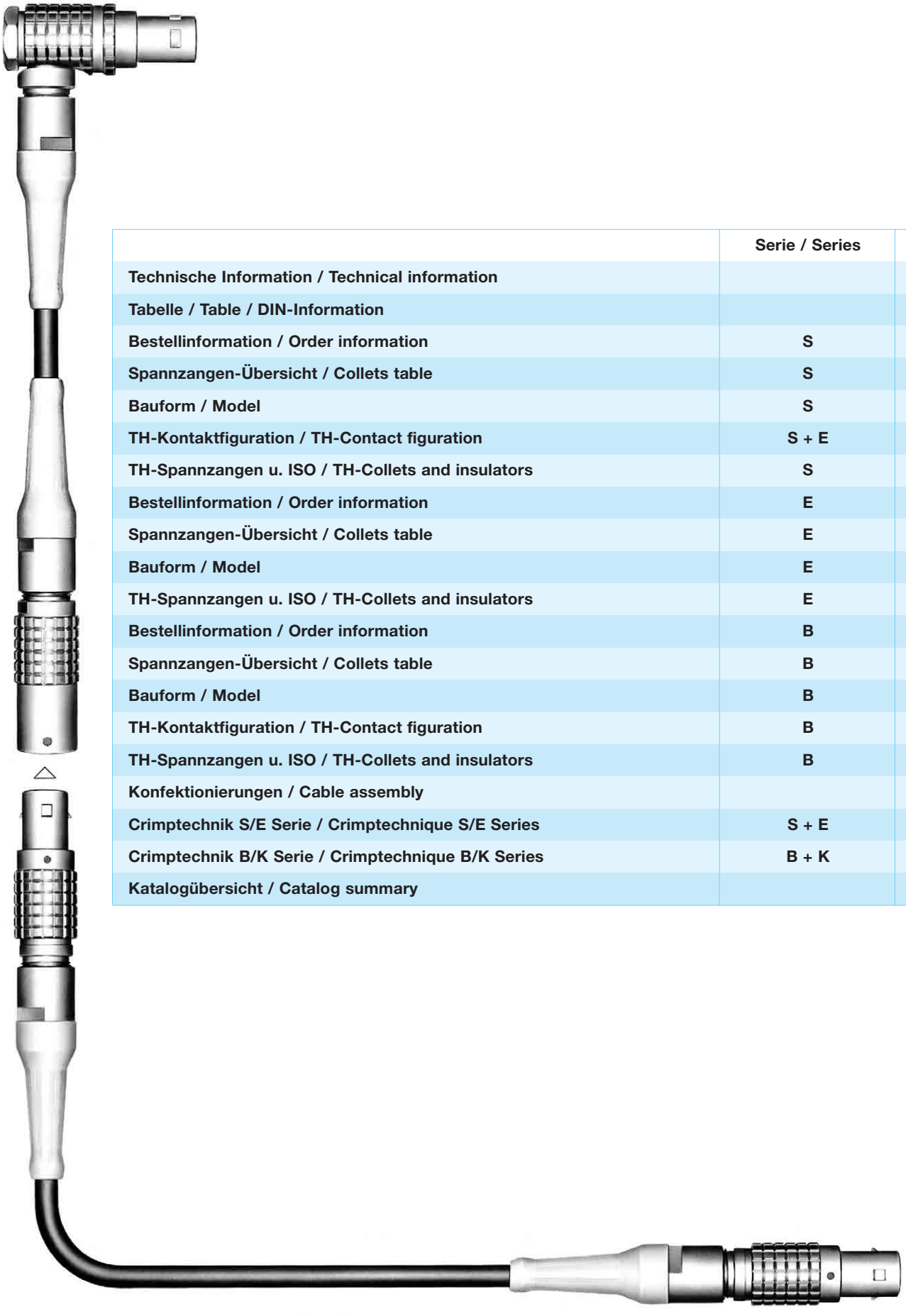
Crimping: coaxial, biaxial, triaxial, multipole

Crimpen: koaxial, biaxial, triaxial, mehrpolig



Final inspection completely PC-organized

Endkontrolle komplett PC-organisiert



Messwiderstande,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 in mV und µV. Für diesen Messbereich ist die LEMO-Steckverbindung das ideale Bauteil.

Measure resistances, resistance thermometers, compensation cables, insulated cables and particularly insulated thermocouples must be fitted with a suitable connector for the industrial use.

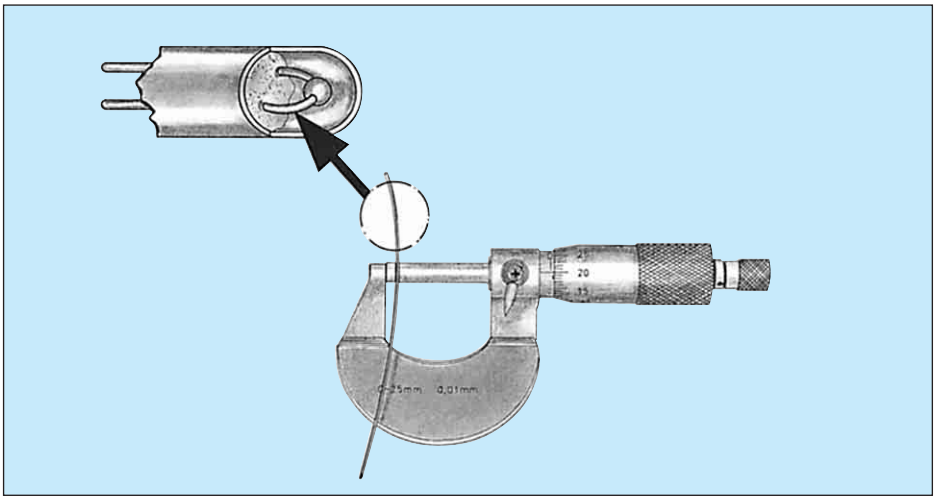
The thermovoltage is measured in mV and µV. The LEMO connector is the ideal construction part for this technology.

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, saved against mechanical and chemical effects.



Der Aufbau und die Funktion von Mantel-Thermoelementen ist bis hin zu Steckverbindungen in der DIN 4370, 43721, I.E.C.584 1, 2 und 4, festgehalten.

The construction and the function of the thermocouples and the parts of the connector are normed in DIN 4370, 43721, I.E.C.584 1, 2 and 4.

Die Auswahl des Adermaterials bestimmt den Temperaturbereich.

Mit TH-Thermoelementen sind Messungen zwischen - 250 und + 2200 °C möglich. Die Entwicklung für neue Werkstoffe, seit der Einführung durch SEEBECK und PELTIR, ist noch immer in Bewegung.

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

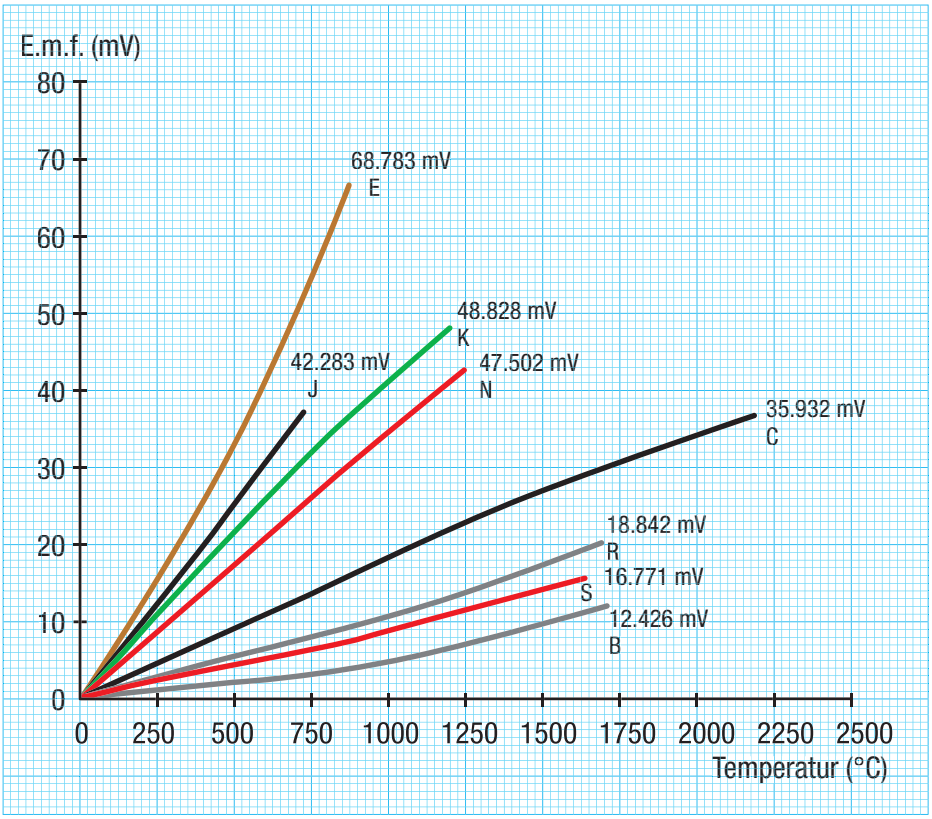
The part of the wire material will choosed the temperature range.

The measurements of thermocouples is between - 250 and + 2200 °C.
The development of new materials is still moving since the introduction of SEEBECK and PELTIR.

The most used thermocouple is the part of Chromel-Alumel (type K). The temperature range is from - 200 to 1100 °C. With our LEMO connector we reached good thermoelectric characteristics. The thermoelectric power curve is nearly linear.

Thermospannung (mV)

Thermoelectric power (mV)



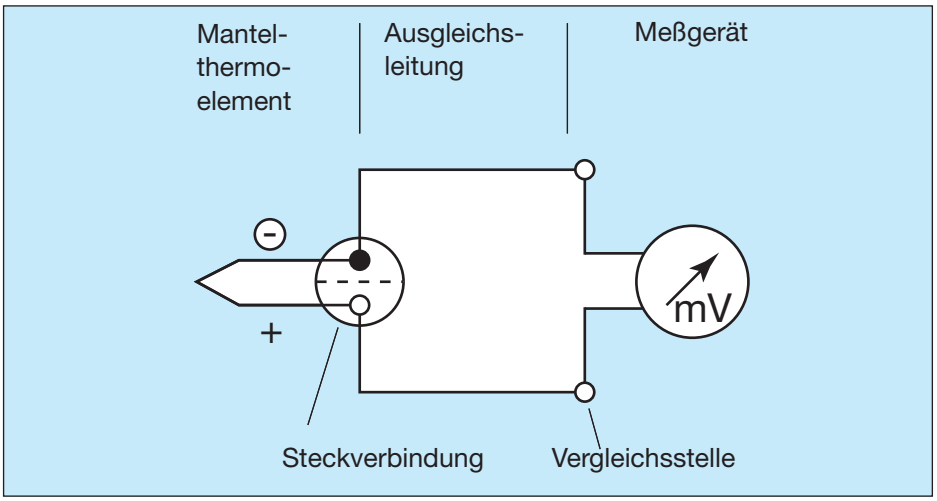
Steckverbindung und Thermoelement

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

Connector and thermocouple

In extreme cases the distance between the measuring point and the gauge can be several hundred meters.

Messaufbau



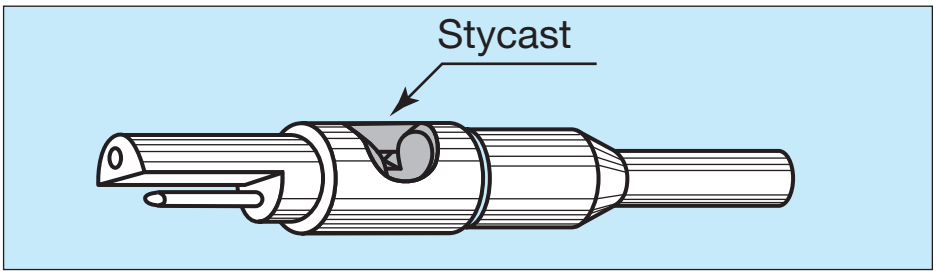
Um eine einwandfreie Funktion der Miniatur-Mantel-Thermoelemente zu gewährleisten, müssen die Anschlußstellen gegen Feuchtigkeit dicht abgeschlossen werden. Dies geschieht durch Vergießen mit Kunststoffen. Hier hat sich insbesondere das Vergußmaterial STYCAST mit einem Temperaturbereich von 73 bis 177 °C, bewährt.

Measurement assembly

To guarantee a good function of the insulated miniature thermocouples, the connection points must be tightly saved against humity. This sealing can be made with plastic materials, especially STYCAST which has a temperature variation from 73 to 177 °C.

TH-Spannzangen mit Vergußstelle

TH-collets with sealing point



Aus langen Erfahrungswerten geht hervor, daß bei den gebräuchlichsten Thermopaaren, wie z. B. Chromel-Alumel, die hochwertigen LEMO-Kontakte in der spezial vergoldeten Version eingesetzt werden können. An der Anschlußstelle mit dem Thermoelementmaterial hebt sich die EMK (elektromagnetische Kraft) vollständig auf. Dies ist aber nur der Fall, wenn die Steckverbindung als Zwischenstück in der Thermoleitung dient und diese sich wiederum auf einem gleichbleibenden Temperaturlevel befindet. Überall dort, wo ein thermisches Gleichgewicht der Steckverbindung nicht erreicht wird, muß der Steckkontakt aus demselben Material, wie das der Thermoelemente, gewählt werden. Siehe Tabelle Thermoelemente-Ausgleichskabel.

Bei der Verwendung von Steckverbindungen mit Thermokontakten ist auf den richtigen Anschluß nach DIN 43711, A.N.S.I. MC 96.1, zu achten.

Siehe Tabelle nach Farbcode und +/- Einteilung.

Wir empfehlen nachstehendes Lötzinn:

Bei der Verwendung von Lötzinn, Typ HMP07, und der richtigen Löttemperatur (380 °C), ist eine leichte Verarbeitung und ein homogener Anschluß gewährleistet. Entspricht laut Freistellung der ISO 14001.

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 erolgt somit am Slecker mit der Push-Pull-Verriegelung, Typ FFA. _ _ _.

During many years of experience, we can assert that LEMO contacts of high quality in the special golden version can be mounted on the most used thermocouples, for example Chromel-Alumel. At the connection point with the thermocouple material neutralizes the e.m.f. (electromagnetic force). This is only the case, when the connector like an intermediate piece in the thermoelectric wire works. The system must be on a constant temperature level. Wherever we don't reach a thermal balance of the connector, the contact should be from the same material as the thermocouple. See table thermoelement compensation cable.

If you use connectors with thermocontacts, you must pay attention to the assembly according to DIN 43711, A.N.S.I. MC 96.1.

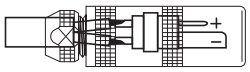
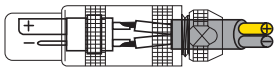
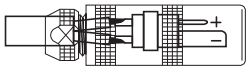
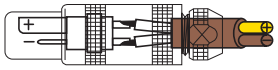
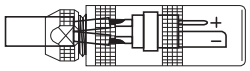
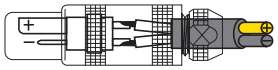
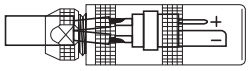
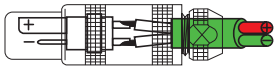
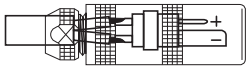
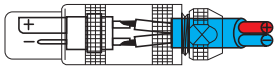
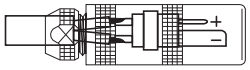
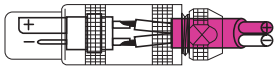
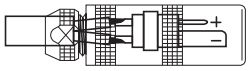
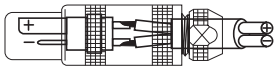
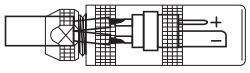
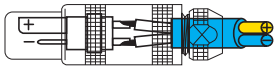
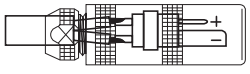
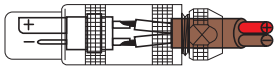
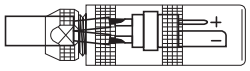
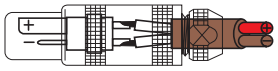
See following table code colours and +/- splitting.

We recommend following solder tin:

When you work with solder tin of type HMP07 and the right soldering temperature (380 °C), an easy working and a homogeneous connection can be guaranteed. According to release of ISO 14001.

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

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

Thermoelement			Ausgleichskabel	
Typ / Model	Polung / Pole	Material	Polung / Pole	Material
B		+ Platin, 30% Rodium – Platin, 6% Rodium		+ Cu-Legierung – Cu
E		+ Nickel-Chrom (Chromel) – Kupfer-Nickel (Konstantan)		+ NiCr – CuNi
J		+ Eisen – Kupfer-Nickel (Konstantan)		+ Fe – CuNi
K		+ Nickel-Chrom (Chromel) – Nickel (Alumel)		+ NiCr + Fe – Ni – CuNi
L		+ Eisen – Kupfer-Nickel (Konstantan)		+ Fe – CuNi
N		+ Nickel-Chrom-Silizium (Nicrosil) – Nickel-Silizium (Nisil)		+ NiCrSi + Cu – NiSi – CuNi
R		+ Platin, 13% Rodium – Platin		+ Cu – CuNi
S		+ Platin, 10% Rodium – Platin		+ Cu – CuNi
T		+ Kupfer – Kupfer-Nickel (Konstantan)		+ Cu – CuNi
U		+ Kupfer – Kupfer-Nickel (Konstantan)		+ Cu – CuNi

Die gebräuchlichsten Ausgleichskabel (vor Dezember 1993)

The common compensation cables (before december 1993)

Typ Model	Standards	Mantel (Sheath)	Seele + (Wire +)	Seele – (Wire –)
K	NF	●	⊕	⊖
K	DIN	●	⊕	⊖
K	BS	●	⊕	⊖
K	ANSI	●	⊕	⊖
J	NF	●	⊕	⊖
L	DIN	●	⊕	⊖
J	BS	●	⊕	⊖
J	ANSI	●	⊕	⊖
E	NF	●	⊕	⊖
T	NF	●	⊕	⊖
T	DIN	●	⊕	⊖
S	NF	●	⊕	⊖

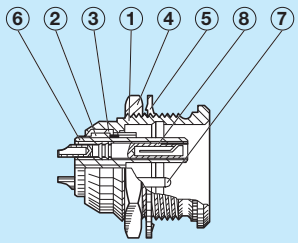
Ab Dezember 1993 sind die unterschiedlichen Normen, NF C 42-324, DIN 43714 (ausgenommen Typ L) BS 1843 und ANSI MC 96.1 in den internationalen Standards IEC 584-3 und der DIN 43722 zusammengefasst.

Different norms as NF C 42-324, DIN 43714 (except type no. L), BS 1843 and ANSI MC 96.1 are summarised in the international standard IEC 584-3 and DIN 43722 since December 1993.

Typ Model	Standards	Mantel (Sheath)	Seele + (Wire +)	Seele – (Wire –)
K	IEC 584-3 DIN 43722	●	⊕	⊖
J	IEC 584-3 DIN 43722	●	⊕	⊖
E	IEC 584-3 DIN 43722	●	⊕	⊖
T	IEC 584-3 DIN 43722	●	⊕	⊖
S	IEC 584-3 DIN 43722	●	⊕	⊖

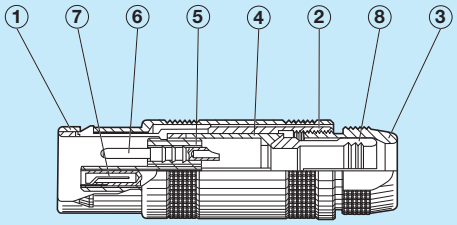
Konstruktions-Information S Serie Standard

Constructions information S Series standard



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

Bestellbeispiele

Part number example

Standardstecker, gerade — **Straight standard plug**

FFA	0S	302	C	L	A	L	32	Z	N

- **Model** (page 14 – 17)
- **Size and Series** (page 14 – 17)
- **Contact figuration** (page 18 + 41, 19 – 25)
- **Housing** Please see Unipole/Multipole catalogue
- **Insulator** Please see Unipole/Multipole catalogue
- **Bend relief and Color** Please see Unipole/Multipole catalogue
- **Collet nut for bend relief** Please see Unipole/Multipole catalogue
- **Collet-Ø** (page 11 – 13, 19 – 25)
- **Collet Type** (page 11 – 13, 19 – 25)
- **Contact** (page 18 + 41)

Standardstecker gerade, Größe 0, S Serie mehrpolig (2 Kontakte), Außenkörper aus Messing, Isolationsteil aus PEEK, männlicher und weiblicher Lötkontakt, Spannzange für geschirmtes Kabel, Durchmesser 3,2 mm.

Straight plug, size 0, S Series, 2 contacts, chromed brass shell, PEEK insulator, male and female solder contact, collet 3,2 mm for shielded cable.

Apparatedose — **Socket**

ERA	2S	302	C	L	L	

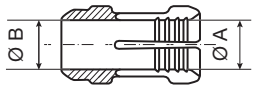
- **Model** (page 14 – 17)
- **Size and Series** (page 14 – 17)
- **Contact figuration** (page 18 + 41, 19 – 25)
- **Variant**
- **Contact** (page 18 + 41)
- **Insulator** Please see Unipole/Multipole catalogue
- **Housing** Please see Unipole/Multipole catalogue

Einbauapparatedose, Größe 2, S Serie, mehrpolig (2 Kontakte), Außenkörper aus Messing, verchromt, Massekrone vernickelt, Isolationsteil aus PEEK, männlicher und weiblicher Lötkontakt.

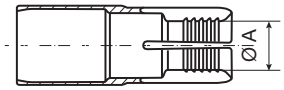
Fixed socket, size 2, S Series, 2 contacts, chromed brass shell, PEEK insulator, female and male solder contact.

S Series – Size 0
S Serie – Größe 0

C = AG



L = NG



K = Adapter to the next size

Reference		Series	Ø Collet (mm)		Ø Cable (mm)		Part number collet [1]	Re-marks	Part number adapter [2]	Part number Collet nut [2]
Model	Ø		ØA	ØB	max.	min.				
C	17	0S	1,7	—	1,6	1,3	FFA.0S.717.CN	○		
C	22		2,2	—	2,1	1,7	FFA.0S.722.CN	○		
C	27		2,7	—	2,6	2,2	FFA.0S.727.CN	●		
C	32		3,2	—	3,1	2,7	FFA.0S.732.CN	●		
C	37		3,7	3,2	3,6	3,0	FFA.0S.737.CN	●		
C	42		4,2	3,7	4,1	3,3	FFA.0S.742.CN	●		
C	44		4,4	3,7	4,3	3,5	FFA.0S.744.CN	● [4]		FFA.0S.133.LC
C	50		5,1	5,1	5,0	4,4	FFA.0S.750.CN	● [4]		FFA.0S.133.LC
K	47		4,7	—	4,6	3,8	FFA.1S.747.CN	●	FFA.0S.137.LCN	FFA.1S.130.LC
K	52		5,2	—	5,1	4,3	FFA.1S.752.CN	●	FFA.0S.137.LCN	FFA.1S.130.LC
K	57		5,7	—	5,6	4,8	FFA.1S.757.CN	●	FFA.0S.137.LCN	FFA.1S.130.LC
K	62		6,2	5,2	6,1	5,3	FFA.1S.762.CN	●	FFA.0S.137.LCN	FFA.1S.130.LC
K	66		6,6	5,5	6,5	5,9	FFA.1S.766.CN	○	FFA.0S.137.LCN	FFA.1S.130.LC
K	68		6,8	5,5	6,7	6,0	FFA.1S.768.CN	●	FFA.0S.137.LCN	FFA.1S.130.LC
C	17		1,7	—	1,6	1,3	FLA.0S.717.CN	● [3]		
C	22		2,2	—	2,1	1,7	FLA.0S.722.CN	● [3]		
C	27		2,7	—	2,6	2,2	FLA.0S.727.CN	● [3]		
C	32		3,2	—	3,1	2,7	FLA.0S.732.CN	● [3]		
C	37		3,7	3,2	3,6	3,0	FLA.0S.737.CN	● [3]		
C	42		4,2	3,7	4,1	3,3	FLA.0S.742.CN	● [3]		
C	44		4,4	3,7	4,3	3,5	FLA.0S.744.CN	● [3]		
L	17		1,7	—	1,6	1,3	FFA.0S.717.LN	●		
L	22		2,2	—	2,1	1,8	FFA.0S.722.LN	●		
L	27		2,7	—	2,6	2,3	FFA.0S.727.LN	●		
L	32		3,2	—	3,1	2,8	FFA.0S.732.LN	●		
L	37		3,7	—	3,6	3,0	FFA.0S.737.LN	●		
L	42		4,2	—	4,1	3,3	FFA.0S.742.LN	●		
L	48		4,8	—	4,7	4,4	FFA.0S.748.LN	● [4]		FFA.0S.133.LC

[1] Für Einzelbestellung der Spannzangen.
[2] Für Einzelbestellung einer Spannzange der Type K benötigt man je einen Adapter und eine Spannschraube (Bestell-Nr. siehe oben).
[3] Diese Spannzange paßt zu den Typen FLA, FFP und PCP.
[4] Diese Spannzangen können nicht in Bauformen mit Spannschrauben für Knickschutztüllen verwendet werden.

● lieferbar
○ auf Anfrage

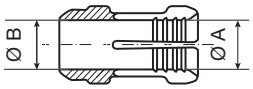
[1] For individual orders of collets.
[2] For individual orders of a collet type K an adapter each is required as well as a collet nut (part number is mentioned above).
[3] This collet is used for the FLA, FFP and PCP models.
[4] These collets cannot be used for connector models with nut for fitting a bend relief.

● in stock
○ on request

Collets table
Spannzangen-Übersicht

S Series – Size 1
S Serie – Größe 1

C = AG



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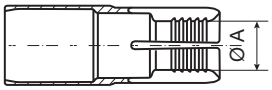


K = Adapter to the next size

Reference		Series	Ø Collet (mm)		Ø Cable (mm)		Part number collet [1]	Re-marks	Part number adapter [2]	Part number Collet nut [2]
Model	Ø		ØA	ØB	max.	min.				
C	17	1S	1,7	–	1,6	1,3	FFA.1S.717.CN	○		FFA.1S.130.LC
C	22		2,2	–	2,1	1,7	FFA.1S.722.CN	●		FFA.1S.130.LC
C	27		2,7	–	2,6	2,2	FFA.1S.727.CN	●		FFA.1S.130.LC
C	32		3,2	–	3,1	2,6	FFA.1S.732.CN	●		FFA.1S.130.LC
C	37		3,7	–	3,6	2,7	FFA.1S.737.CN	●		FFA.1S.130.LC
C	42		4,2	–	4,1	3,3	FFA.1S.742.CN	●		FFA.1S.130.LC
C	47		4,7	–	4,6	3,8	FFA.1S.747.CN	●		FFA.1S.130.LC
C	52		5,2	–	5,1	4,3	FFA.1S.752.CN	●		FFA.1S.130.LC
C	57		5,7	–	5,6	4,8	FFA.1S.757.CN	●		FFA.1S.130.LC
C	62		6,2	5,2	6,1	5,3	FFA.1S.762.CN	●		FFA.1S.130.LC
C	66		6,6	5,5	6,5	5,9	FFA.1S.766.CN	●[4]		FFA.1S.131.LC
C	68		6,8	5,5	6,7	6,0	FFA.1S.768.CN	●[4]		FFA.1S.131.LC
K	72		7,2	6,7	7,0	6,1	FFA.2S.772.CN	●	FFA.1S.137.LCN	FFA.2S.130.LC
K	77		7,7	6,7	7,5	7,1	FFA.2S.777.CN	○	FFA.1S.137.LCN	FFA.2S.130.LC
K	82		8,2	6,7	8,0	7,6	FFA.2S.782.CN	○	FFA.1S.137.LCN	FFA.2S.130.LC
K	87		8,7	6,7	8,5	8,1	FFA.2S.787.CN	○	FFA.1S.137.LCN	FFA.2S.130.LC
C	17		1,7	–	1,6	1,3	FLA.1S.717.CN	●[3]		FFA.1S.130.LC
C	22		2,2	–	2,1	1,7	FLA.1S.722.CN	●[3]		FFA.1S.130.LC
C	27		2,7	–	2,6	2,2	FLA.1S.727.CN	●[3]		FFA.1S.130.LC
C	32		3,2	–	3,1	2,6	FLA.1S.732.CN	●[3]		FFA.1S.130.LC
C	37		3,7	–	3,6	2,7	FLA.1S.737.CN	●[3]		FFA.1S.130.LC
C	42		4,2	–	4,1	3,3	FLA.1S.742.CN	●[3]		FFA.1S.130.LC
C	47		4,7	–	4,6	3,8	FLA.1S.747.CN	●[3]		FFA.1S.130.LC
C	52		5,2	–	5,1	4,3	FLA.1S.752.CN	●[3]		FFA.1S.130.LC
C	57		5,7	–	5,6	4,8	FLA.1S.757.CN	●[3]		FFA.1S.130.LC
C	62		6,2	5,2	6,1	5,3	FLA.1S.762.CN	●[3]		FFA.1S.130.LC
C	66		6,6	5,5	6,5	5,9	FLA.1S.766.CN	●[3]		FFA.1S.131.LC
C	68		6,8	5,5	6,7	6,0	FLA.1S.768.CN	●[3]		FFA.1S.131.LC
L	17		1,7	–	1,6	1,3	FFA.1S.717.LN	●		FFA.1S.130.LC
L	22		2,2	–	2,1	1,7	FFA.1S.722.LN	●		FFA.1S.130.LC
L	27		2,7	–	2,6	2,2	FFA.1S.727.LN	●		FFA.1S.130.LC
L	32		3,2	–	3,1	2,6	FFA.1S.732.LN	●		FFA.1S.130.LC
L	37		3,7	–	3,6	2,7	FFA.1S.737.LN	●		FFA.1S.130.LC
L	42		4,2	–	4,1	3,3	FFA.1S.742.LN	●		FFA.1S.130.LC
L	47		4,7	–	4,6	3,8	FFA.1S.747.LN	●		FFA.1S.130.LC
L	50		5,0	–	4,9	4,7	FFA.1S.750.LN	●		FFA.1S.130.LC
L	52		5,2	–	5,1	4,3	FFA.1S.752.LN	●		FFA.1S.130.LC
L	57		5,7	–	5,6	4,8	FFA.1S.757.LN	●		FFA.1S.130.LC
L	62		6,2	–	6,1	5,3	FFA.1S.762.LN	●		FFA.1S.130.LC
L	66		6,6	–	6,5	5,9	FFA.1S.766.LN	●[4]		FFA.1S.131.LC

[1] Für Einzelbestellung der Spannzangen.
[2] Für Einzelbestellung einer Spannzange der Type K benötigt man je einen Adapter und eine Spannschraube (Bestell-Nr. siehe oben).
[3] Diese Spannzange paßt zu Type FLA.
[4] Diese Spannzangen können nicht in Bauformen mit Spannschrauben für Knickschutztüllen verwendet werden.

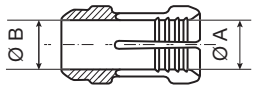
● lieferbar
○ auf Anfrage

[1] For individual orders of collets.
[2] For individual orders of a collet type K an adapter each is required as well as a collet nut (part number is mentioned above).
[3] This collet is used for the FLA models.
[4] These collets cannot be used for connector models with nut for fitting a bend relief.

● in stock
○ on request

S Series – Size 2
S Serie – Größe 2

C = AG



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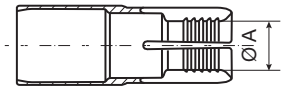


K = Adapter to the next size

Reference		Series	Ø Collet (mm)		Ø Cable (mm)		Part number collet [1]	Re-marks	Part number adapter [2]	Part number Collet nut [2]
Model	Ø		ØA	ØB	max.	min.				
C	17	2S	1,7	–	1,5	1,3	FFA.2S.717.CN	○		FFA.2S.130.LC
C	27		2,7	–	2,5	1,7	FFA.2S.727.CN	○		FFA.2S.130.LC
C	32		3,2	–	3,0	2,5	FFA.2S.732.CN	○		FFA.2S.130.LC
C	42		4,2	–	4,0	3,1	FFA.2S.742.CN	●		FFA.2S.130.LC
C	52		5,2	–	5,0	4,1	FFA.2S.752.CN	●		FFA.2S.130.LC
C	62		6,2	–	6,0	5,1	FFA.2S.762.CN	●		FFA.2S.130.LC
C	72		7,2	6,7	7,0	6,1	FFA.2S.772.CN	●		FFA.2S.130.LC
C	77		7,7	6,7	7,5	7,1	FFA.2S.777.CN	●		FFA.2S.130.LC
C	82		8,2	6,7	8,0	7,6	FFA.2S.782.CN	○		FFA.2S.130.LC
C	87		8,7	6,7	8,5	8,1	FFA.2S.787.CN	○		FFA.2S.130.LC
K	92		9,2	8,7	9,0	8,1	FFA.3S.792.CN	●	FFA.2S.137.LCN	FFA.3S.130.LC
K	97		9,7	8,7	9,5	9,1	FFA.3S.797.CN	●	FFA.2S.137.LCN	FFA.3S.130.LC
K	10		10,2	8,7	10,0	9,6	FFA.3S.710.CN	●	FFA.2S.137.LCN	FFA.3S.130.LC
K	11		10,7	8,7	10,5	10,1	FFA.3S.711.CN	●	FFA.2S.137.LCN	FFA.3S.130.LC
C	17		1,7	–	1,5	1,3	FLA.2S.717.CN	●[3]		FFA.2S.130.LC
C	27		2,7	–	2,5	1,7	FLA.2S.727.CN	●[3]		FFA.2S.130.LC
C	32		3,2	–	3,0	2,5	FLA.2S.732.CN	●[3]		FFA.2S.130.LC
C	42		4,2	–	4,0	3,1	FLA.2S.742.CN	●[3]		FFA.2S.130.LC
C	52		5,2	–	5,0	4,1	FLA.2S.752.CN	●[3]		FFA.2S.130.LC
C	62		6,2	–	6,0	5,1	FLA.2S.762.CN	●[3]		FFA.2S.130.LC
C	72		7,2	6,7	7,0	6,1	FLA.2S.772.CN	●[3]		FFA.2S.130.LC
C	77		7,7	6,7	7,5	7,1	FLA.2S.777.CN	●[3]		FFA.2S.130.LC
L	82		8,2	6,7	8,0	7,6	FLA.2S.782.CN	●[3]		FFA.2S.130.LC
L	87		8,7	6,7	8,5	8,1	FLA.2S.787.CN	●[3]		FFA.2S.130.LC
L	27		2,7	–	2,5	1,7	FFA.2S.727.LN	●		FFA.2S.130.LC
L	32		3,2	–	3,0	2,5	FFA.2S.732.LN	●		FFA.2S.130.LC
L	42		4,2	–	4,0	3,1	FFA.2S.742.LN	●		FFA.2S.130.LC
L	52		5,2	–	5,0	4,1	FFA.2S.752.LN	●		FFA.2S.130.LC
L	62		6,2	–	6,0	5,1	FFA.2S.762.LN	●		FFA.2S.130.LC
L	72		7,2	–	7,0	6,1	FFA.2S.772.LN	●		FFA.2S.130.LC
L	77		7,9	–	7,5	7,1	FFA.2S.777.LN	●		FFA.2S.130.LC
L	82		8,2	6,7	8,0	7,6	FFA.2S.782.LN	●		FFA.2S.130.LC
L	87		8,7	–	8,5	7,8	FFA.2S.787.LN	●		FFA.2S.130.LC

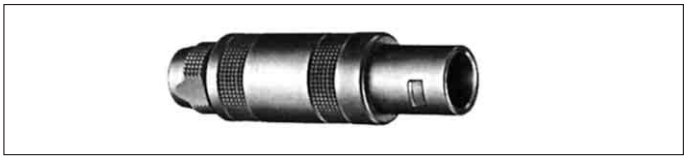
[1] Für Einzelbestellung der Spannzangen.
[2] Für Einzelbestellung einer Spannzange der Type K benötigt man je einen Adapter und eine Spannschraube (Bestell-Nr. siehe oben).
[3] Diese Spannzange paßt zu Type FLA.

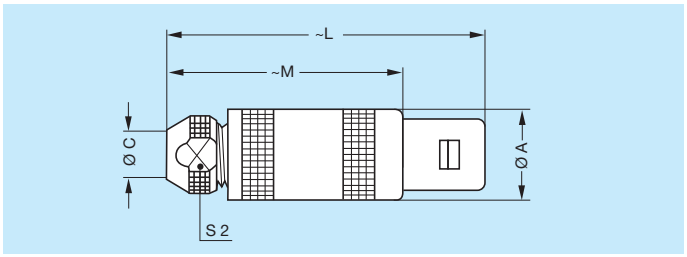
● lieferbar
○ auf Anfrage

[1] For individual orders of collets.
[2] For individual orders of a collet type K an adapter each is required as well as a collet nut (part number is mentioned above).
[3] This collet is used for the FLA models.

● in stock
○ on request

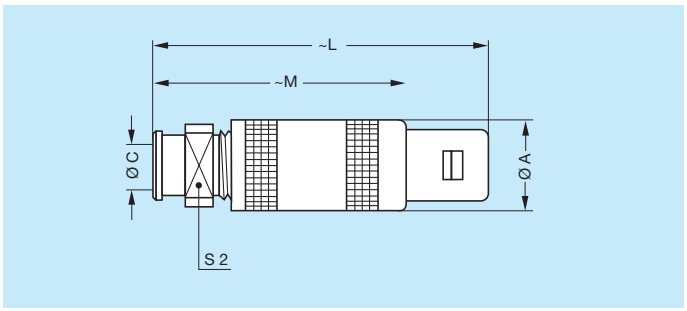
S Series – standard
S Serie – Standard





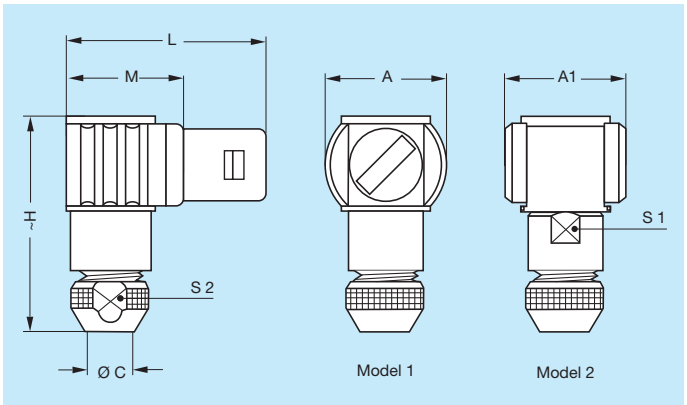
Standard plug
Standardstecker

Reference		Dimensions (mm)				
Model	Series	A	C	L	M	S2
FFA	0S	9.0	4.2	34.5	24.5	6.5
FFA	1S	12.0	6.2	42.5	31.5	8.5
FFA	2S	14.8	8.5	52.0	40.0	11.0



Standard plug with cable collet and nut for fitting a strain relief
Standardstecker mit Knickschutzschraube

Reference		Dimensions (mm)				
Model	Series	A	C	L	M	S2
FFA	0S	9.0	4.2	36.5	26.5	7
FFA	1S	12.0	6.2	45.0	34.0	9
FFA	2S	14.8	8.5	54.5	42.5	12



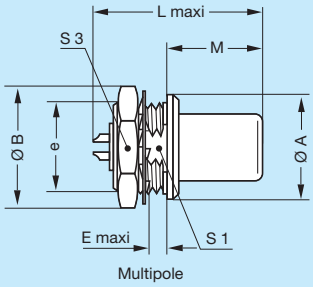
Elbow plug (90°)
Winkelstecker (90°)

Reference		Dimensions (mm)							
Model	Series	A	A1	C	H	L	M	S1	S2
FLA	0S	13	13	4.2	24.5	23.0	13.0	8	6.5
FLA	1S	16	16	6.2	28.5	26.5	15.5	10	8.5
FLA	2S	20	20	8.5	37.0	31.0	19.0	13	11.0

Model 1: for unipole and coaxial types
Model 2: for all other types

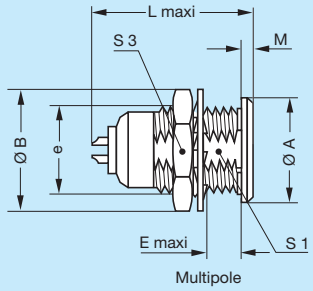
Modell 1: für einpolige und koaxiale Typen
Modell 2: für alle anderen Typen

Andere mechanische Bauformen siehe Unipole/Multipole Katalog
Other mechanical designs see Unipole/Multipole catalogue



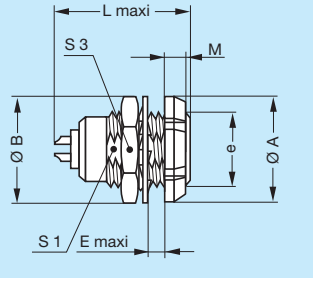
Plug with visible shell, non latching
Positive Apparatedose (Einbaustecker)

Reference		Dimensions (mm)							
Model	Series	A	B	e	E	L	M	S1	S3
FAA	0S	10	12.5	M9 x 0.6	2.0	18.5	11.2	8.2	11
FAA	1S	14	16.0	M12 x 1	2.5	22.5	12.5	10.5	14
FAA	2S	18	19.5	M15 x 1	4.0	25.0	13.8	13.5	17



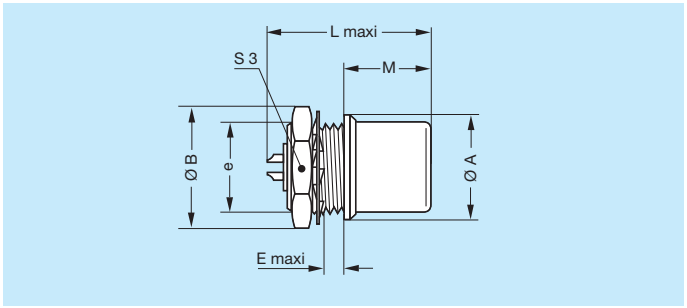
Fixed socket
Einbauapparatedose

Reference		Dimensions (mm)							
Model	Series	A	B	e	E	L	M	S1	S3
ERA	0S	10	12.5	M9 x 0.6	7.0	17.5	1.2	8.2	11
ERA	1S	14	16.0	M12 x 1	7.5	21.5	1.5	10.5	14
ERA	2S	18	19.5	M15 x 1	8.5	24.0	1.8	13.5	17



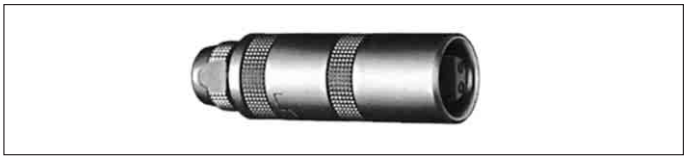
Fixed socket with two fixing nuts (back panel mounting)
Einbauapparatedose mit durchgehendem Gewinde, Flanschschraube an der Frontplatte und Sechskantschraube

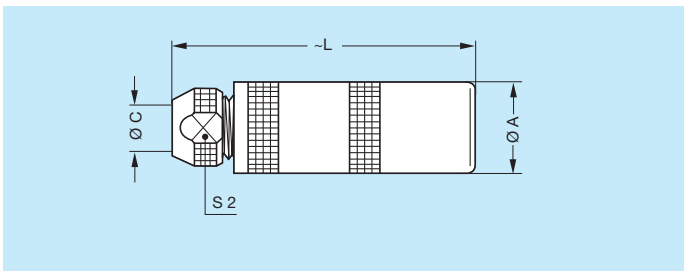
Reference		Dimensions (mm)							
Model	Series	A	B	e	E	L	M	S1	S3
ERD	0S	12	12.5	M9 x 0.6	5.5	17.5	2.5	8.2	11
ERD	1S	16	16.0	M12 x 1	6.0	21.5	3.2	10.5	14
ERD	2S	20	19.5	M15 x 1	6.0	24.0	3.8	13.5	17



Fixed socket with visible shell
Einbauapparatedose mit vorstehendem Körper

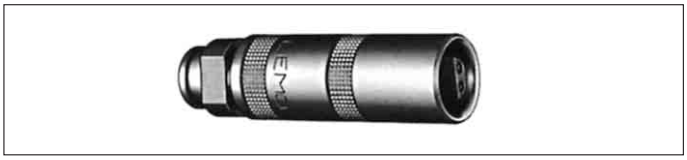
Reference		Dimensions (mm)						
Model	Series	A	B	e	E	L	M	S3
EHP	0S	10	12.5	M9 x 0.6	2.5	17.5	12.5	11
EHP	1S	14	16.0	M12 x 1	2.0	21.5	12.0	14

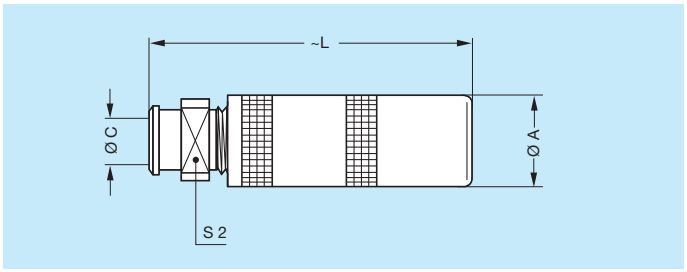




Free socket
Kabelkupplung

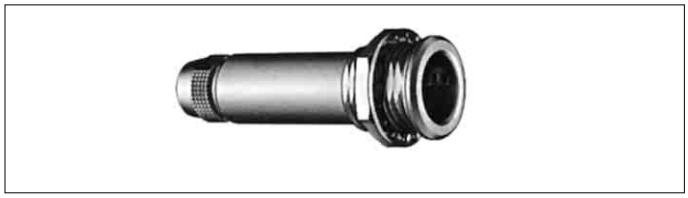
Reference		Dimensions (mm)			
Model	Series	A	C	L	S2
PCA	0S	8.9	4.2	33.5	6.5
PCA	1S	11.9	6.2	40.5	8.5
PCA	2S	14.8	8.5	50.0	11.0

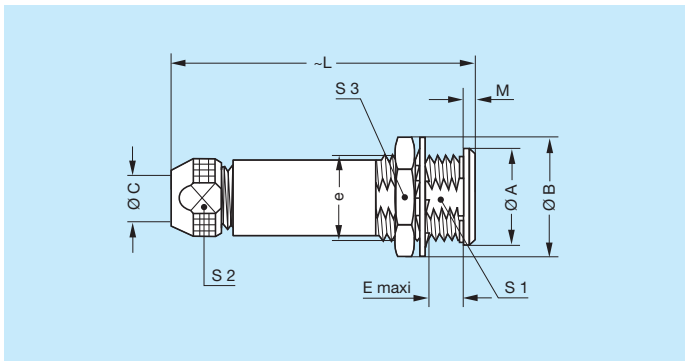




Free socket with collet for a strain relief
Kabelkupplung mit Knickschutzschraube

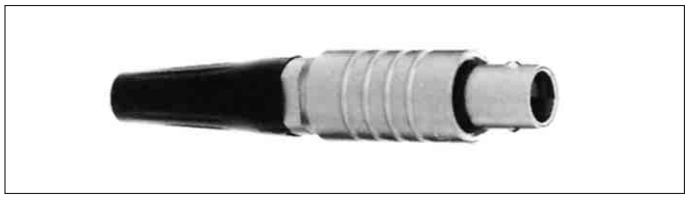
Reference		Dimensions (mm)			
Model	Series	A	C	L	S2
PCA	0S	8.9	4.2	35.0	7
PCA	1S	11.9	6.2	43.0	9
PCA	2S	14.8	8.5	52.5	12

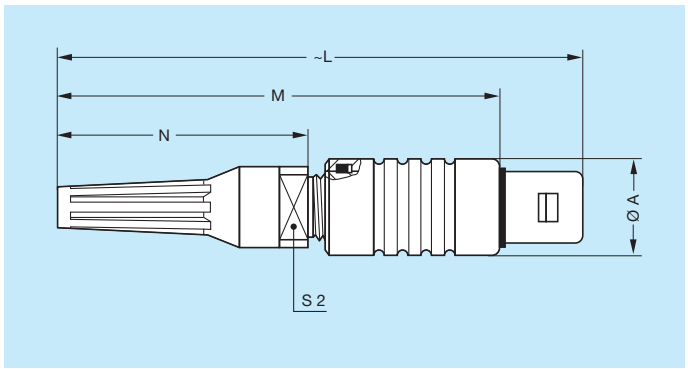




Fixed socket with cable collet
Einbauapparatedose mit Zugentlastung

Reference		Dimensions (mm)									
Model	Series	A	B	C	e	E	L	M	S1	S2	S3
PSA	0S	10	12.5	4.2	M9 x 0.6	7.0	33.5	1.2	8.2	6.5	11
PSA	1S	14	16.0	6.2	M12 x 1	7.5	40.5	1.5	10.5	8.5	14
PSA	2S	18	19.5	8.5	M15 x 1	8.5	50.0	1.8	13.5	11.0	17



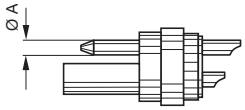


Straight plug for IP 56
Stecker, gerade, nach IP 56

Reference		Dimensions (mm)				
Model	Series	A	L	M	N	S2
FFE	0S	10	55.5	45.5	26.0	7
FFE	1S	13	70.0	59.0	33.0	9
FFE	2S	16	84.0	72.0	40.5	12

TH – Kontaktfiguration / S + E Serie

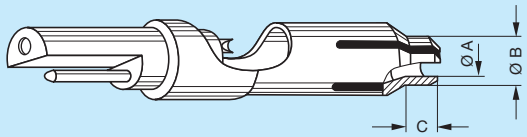
TH-Insulator



Size	FFA	ERA / PSA	Reference	Series	Number of contacts	Contacts-Ø Ø A (mm)	Max. Conductor-Ø	Contact-no.	Thermo contact-Type E	J	K	T	L	W
0S 0E			302	0S	2	0.9	0.8	1 2	EN EP	JN JP	KN KP	TN TP	LN LP	W W
			303	0S	3	0.7	0.6	1 2 3	EP EN L	JP JN L	KP KN L	TP TN L	LP LN L	W W W
			902	0S	4	0.7	0.6	1-3 2-4	EP EN	JP JN	KP KN	TP TN	LP LN	W W
1S 1E			302	1S	2	1.3	1.0	1 2	EN EP	JN JP	KN KP	TN TP	LN LP	W W
			303	1S	3	0.9	0.8	1 2 3	EP EN L	JP JN L	KP KN L	TP TN L	LP LN L	W W W
			902	1S	4	0.9	0.8	1-3 2-4	EP EN	JP JN	KP KN	TP TN	LP LN	W W
			903	1S	6	0.7	0.6	1-3-5 2-4-6	EP EN	JP JN	KP KN	TP TN	LP LN	W W
2S 2E			302	2S	2	1.6	1.4	1 2	EN EP	JN JP	KN KP	TN TP	LN LP	W W
			303	2S	3	1.3	1.0	1 2 3	EP EN L	JP JN L	KP KN L	TP TN L	LP LN L	W W W
			902	2S	4	1.3	1.0	1-3 2-4	EP EN	JP JN	KP KN	TP TN	LP LN	W W
			903	2S	6	1.3	1.0	1-3-5 2-4-6	EP EN	JP JN	KP KN	TP TN	LP LN	W W

Bestellbeispiel
Isolationsteile: FFA.0S.302.ZL**K**
PSA.0S.302.ZL**K**
Stecker: FFA.0S.302.CL**K**
Apparatedose: ERA.0S.302.CL**K**
Kupplung: PCA.0S.302.CL**K**

Part number example
Insulator: FFA.0S.302.ZL**K**
PSA.0S.302.ZL**K**
Plug: FFA.0S.302.CL**K**
Fixed socket: ERA.0S.302.CL**K**
Free socket: PCA.0S.302.CL**K**



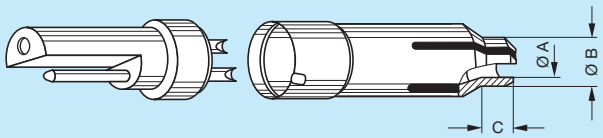
Part number Collet	Reference		Series	Dimensions of the collet (mm)			Ø Thermo-couple max. (mm)	Part number Insulator	Part number Collet/Insulator, fitted	Time of delivery
	Model	Ø		ØA	ØB	C				
FFA.0S.703.FN	F	03	0S	0.3	4.0	2.8	0.27	2-polig: PSA.0S.302.ZLLZ 3-polig: PSA.0S.303.ZLLZ 4-polig: PSA.0S.304.ZLLZ	PSA.0S.30●.ZLLF03	○
FFA.0S.705.FN	F	05		0.5	4.0	2.8	0.45		PSA.0S.30●.ZLLF05	○
FFA.0S.707.FN	F	07		0.7	4.0	2.8	0.60		PSA.0S.30●.ZLLF07	○
FFA.0S.710.FN	F	10		1.0	4.0	2.8	0.90		PSA.0S.30●.ZLLF10	●
FFA.0S.712.FN	F	12		1.2	4.0	2.8	1.10		PSA.0S.30●.ZLLF12	○
FFA.0S.715.FN	F	15		1.5	4.0	2.8	1.40		PSA.0S.30●.ZLLF15	●
FFA.0S.717.FN	F	17		1.7	4.0	2.8	1.60		PSA.0S.30●.ZLLF17	○
FFA.0S.720.FN	F	20		2.0	4.0	2.8	1.90		PSA.0S.30●.ZLLF20	●
FFA.0S.722.FN	F	22		2.2	4.0	2.8	2.10		PSA.0S.30●.ZLLF22	○
FFA.0S.725.FN	F	25		2.5	4.0	2.8	2.40		PSA.0S.30●.ZLLF25	●
FFA.0S.727.FN	F	27		2.7	4.0	2.8	2.60		PSA.0S.30●.ZLLF27	○
FFA.0S.730.FN	F	30		3.0	4.0	2.8	2.90		PSA.0S.30●.ZLLF30	●
FFA.0S.734.FN	F	34		3.4	5.0	3.7	3.30		PSA.0S.30●.ZLLF34	○
FFA.0S.742.FN	F	42		4.2	5.0	3.7	4.10		PSA.0S.30●.ZLLF42	○
FFA.1S.717.FN	F	17	1S	1.7	5.0	5.2	1.60	2-polig: PSA.1S.302.ZLLZ 3-polig: PSA.1S.303.ZLLZ 4-polig: PSA.1S.304.ZLLZ	PSA.1S.30●.ZLLF17	○
FFA.1S.722.FN	F	22		2.2	5.0	5.2	2.10		PSA.1S.30●.ZLLF22	○
FFA.1S.727.FN	F	27		2.7	5.0	5.2	2.60		PSA.1S.30●.ZLLF27	○
FFA.1S.734.FN	F	34		3.4	5.0	5.2	3.30		PSA.1S.30●.ZLLF34	○
FFA.1S.742.FN	F	42		4.2	6.0	5.2	4.10		PSA.1S.30●.ZLLF42	○
FFA.1S.752.FN	F	52		5.2	6.0	5.2	5.10		PSA.1S.30●.ZLLF52	○
FFA.1S.761.FN	F	61		6.1	6.7	5.2	6.00		PSA.1S.30●.ZLLF67	
FFA.2S.722.FN	F	22	2S	2.2	6.0	7.5	2.10	2-polig: PSA.2S.302.ZLLZ 3-polig: PSA.2S.303.ZLLZ 4-polig: PSA.2S.304.ZLLZ	PSA.2S.30●.ZLLF22	
FFA.2S.727.FN	F	27		2.7	6.0	7.5	2.60		PSA.2S.30●.ZLLF27	○
FFA.2S.734.FN	F	34		3.4	6.0	7.5	3.30		PSA.2S.30●.ZLLF34	○
FFA.2S.742.FN	F	42		4.2	6.0	7.5	4.10		PSA.2S.30●.ZLLF42	○
FFA.2S.752.FN	F	52		5.2	8.3	7.5	5.10		PSA.2S.30●.ZLLF52	○
FFA.2S.767.FN	F	67		6.7	8.3	7.5	6.60		PSA.2S.30●.ZLLF67	○

● auf Lager
(Lieferzeit je nach Lagerbestand)
○ Auftragsfertigung im Werk

Bestellbeispiel:
PSA.0S.30**2**.ZLLF03

● in stock
(delivery time depends of stock)
○ order in production

Part number example:
PSA.0S.30**2**.ZLLF03



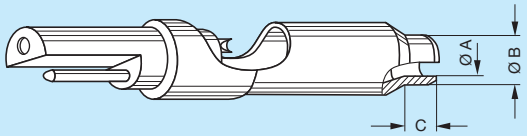
Part number Collet	Reference		Series	Dimensions of the collet (mm)			Ø Thermo-couple max. (mm)	Part number Insulator	Time of delivery
	Model	Ø		ØA	ØB	C			
FFA.0S.703.GN	G	03		0.3	4.0	2.8	0.27		○
FFA.0S.707.GN	G	07		0.7	4.0	2.8	0.60	2-polig:	○
FFA.0S.710.GN	G	10		1.0	4.0	2.8	0.90	PSA.0S.302.ZLL	●
FFA.0S.712.GN	G	12		1.2	4.0	2.8	1.10		○
FFA.0S.715.GN	G	15		1.5	4.0	2.8	1.40		●
FFA.0S.717.GN	G	17		1.7	4.0	2.8	1.60	3-polig:	○
FFA.0S.720.GN	G	20	0S	2.0	4.0	2.8	1.90	PSA.0S.303.ZLL	●
FFA.0S.722.GN	G	22		2.2	4.0	2.8	2.10		○
FFA.0S.725.GN	G	25		2.5	4.0	2.8	2.40		●
FFA.0S.727.GN	G	27		2.7	4.0	2.8	2.60	4-polig:	○
FFA.0S.730.GN	G	30		3.0	4.0	2.8	2.90	PSA.0S.304.ZLL	●
FFA.0S.734.GN	G	34		3.4	5.0	3.7	3.30		○
FFA.0S.742.GN	G	42		4.2	5.0	3.7	4.10		○
FFA.1S.712.GN	G	12		1.2	5.0	3.3	1.10		●
FFA.1S.715.GN	G	15		1.5	5.0	3.3	1.40	2-polig:	●
FFA.1S.717.GN	G	17		1.7	5.0	3.3	1.60	PSA.1S.302.ZLL	●
FFA.1S.722.GN	G	22		2.2	5.0	3.3	2.10		●
FFA.1S.727.GN	G	27		2.7	5.0	3.3	2.60	3-polig:	●
FFA.1S.732.GN	G	32	1S	3.2	5.0	3.3	3.10	PSA.1S.303.ZLL	●
FFA.1S.734.GN	G	34		3.4	5.0	3.3	3.30		○
FFA.1S.737.GN	G	37		3.7	5.0	3.3	3.60	4-polig:	
FFA.1S.742.GN	G	42		4.2	6.0	4.4	4.10	PSA.1S.304.ZLL	○
FFA.1S.752.GN	G	52		5.2	6.2	4.4	5.10		○
FFA.1S.767.GN	G	67		6.7	8.0	4.4	6.60		○
FFA.2S.722.GN	G	22		2.2	6.0	7.5	2.10	2-polig:	○
FFA.2S.727.GN	G	27		2.7	6.0	7.5	2.60	PSA.2S.302.ZLL	○
FFA.2S.734.GN	G	34		3.4	6.0	7.5	3.30	3-polig:	○
FFA.2S.742.GN	G	42	2S	4.2	6.0	7.5	4.10	PSA.2S.303.ZLL	○
FFA.2S.752.GN	G	52		5.2	8.3	7.5	5.10	4-polig:	○
FFA.2S.767.GN	G	67		6.7	8.3	7.5	6.60	PSA.2S.304.ZLL	○

● auf Lager
(Lieferzeit je nach Lagerbestand)
○ Auftragsfertigung im Werk

Bestellbeispiel:
Spannzange: FFA.0S.703.GN
Isolationsteil, 2-polig: PSA.0S.302.ZLL

● in stock
(delivery time depends of stock)
○ order in production

Part number example:
Collet: FFA.0S.703.GN
Insulator for 2 contacts: PSA.0S.302.ZLL



Part number Collet	Reference		Series	Dimensions of the collet (mm)			Ø Thermo-couple max. (mm)	Part number Insulator	Part number Collet/Insulator, fitted	Time of delivery
	Model	Ø		ØA	ØB	C				
FFA.0S.703.NN	N	03		0.30	4.0	2.8	0.25		PSA.0S.30●.ZLLN03	○
FFA.0S.705.NN	N	05		0.55	4.0	2.8	0.50	2-polig:	PSA.0S.30●.ZLLN05	●
FFA.0S.707.NN	N	07		0.70	4.0	2.8	0.65	PSA.0S.302.ZLLZ	PSA.0S.30●.ZLLN07	○
FFA.0S.710.NN	N	10		1.00	4.0	2.8	0.95		PSA.0S.30●.ZLLN10	●
FFA.0S.712.NN	N	12		1.20	4.0	2.8	1.15		PSA.0S.30●.ZLLN12	○
FFA.0S.715.NN	N	15		1.50	4.0	2.8	1.45		PSA.0S.30●.ZLLN15	●
FFA.0S.717.NN	N	17		1.70	4.0	2.8	1.65	3-polig:	PSA.0S.30●.ZLLN17	○
FFA.0S.720.NN	N	20	0S	2.00	4.0	2.8	1.95	PSA.0S.303.ZLLZ	PSA.0S.30●.ZLLN20	●
FFA.0S.722.NN	N	22		2.20	4.0	2.8	2.15		PSA.0S.30●.ZLLN22	○
FFA.0S.725.NN	N	25		2.50	4.0	2.8	2.45		PSA.0S.30●.ZLLN25	●
FFA.0S.727.NN	N	27		2.70	4.0	2.8	2.65		PSA.0S.30●.ZLLN27	○
FFA.0S.730.NN	N	30		3.00	4.0	2.8	2.95	4-polig:	PSA.0S.30●.ZLLN30	●
FFA.0S.732.NN	N	32		3.25	4.0	2.8	3.20	PSA.0S.304.ZLLZ	PSA.0S.30●.ZLLN32	○
FFA.0S.734.NN	N	34		3.40	4.0	2.8	3.35		PSA.0S.30●.ZLLN34	○
FFA.0S.742.NN	N	42		4.20	5.0	3.7	4.15		PSA.0S.30●.ZLLN42	○
FFA.1S.717.NN	N	17		1.70	6.0	5.2	1.65	2-polig:	PSA.1S.30●.ZLLN17	○
FFA.1S.722.NN	N	22		2.20	6.0	5.2	2.15	PSA.1S.302.ZLLZ	PSA.1S.30●.ZLLN22	○
FFA.1S.727.NN	N	27	1S	2.70	6.0	5.2	2.65	3-polig:	PSA.1S.30●.ZLLN27	○
FFA.1S.734.NN	N	34		3.40	6.0	5.2	3.35	PSA.1S.303.ZLLZ	PSA.1S.30●.ZLLN34	○
FFA.1S.742.NN	N	42		4.20	6.0	5.2	4.15	4-polig:	PSA.1S.30●.ZLLN42	○
FFA.1S.752.NN	N	52		5.20	6.0	5.2	3.55	PSA.1S.304.ZLLZ	PSA.1S.30●.ZLLN52	○
FFA.2S.722.NN	N	22		2.20	8.0/4.1	12.5	2.15	2-polig:	PSA.2S.30●.ZLLN22	○
FFA.2S.727.NN	N	27		2.70	8.0/4.1	12.5	2.65	PSA.2S.302.ZLLZ	PSA.2S.30●.ZLLN27	○
FFA.2S.731.NN	N	31		3.10	8.0/4.1	12.5	3.05		PSA.2S.30●.ZLLN31	○
FFA.2S.734.NN	N	34		3.40	8.0/4.1	12.5	3.35		PSA.2S.30●.ZLLN34	○
FFA.2S.742.NN	N	42		4.20	8.0	12.5	4.15	3-polig:	PSA.2S.30●.ZLLN42	○
FFA.2S.746.NN	N	46	2S	4.60	8.0	12.5	4.55	PSA.2S.303.ZLLZ	PSA.2S.30●.ZLLN46	●
FFA.2S.747.NN	N	47		4.70	8.0	12.5	4.65		PSA.2S.30●.ZLLN47	●
FFA.2S.752.NN	N	52		5.20	8.0	12.5	5.15	4-polig:	PSA.2S.30●.ZLLN52	○
FFA.2S.761.NN	N	61		6.10	8.0	12.5	6.05	PSA.2S.304.ZLLZ	PSA.2S.30●.ZLLN61	●
FFA.2S.767.NN	N	67		6.70	8.3	12.5	6.65		PSA.2S.30●.ZLLN67	○

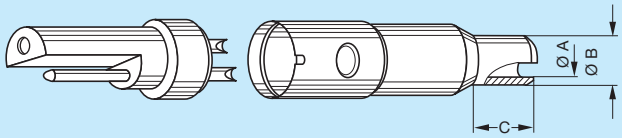
● auf Lager
(Lieferzeit je nach Lagerbestand)
○ Auftragsfertigung im Werk

Bestellbeispiel:
PSA.0S.30**2**.ZLLN03

● in stock
(delivery time depends of stock)
○ order in production

Part number example:
PSA.0S.30**2**.ZLLN03

TH – Spannzangen u. ISO



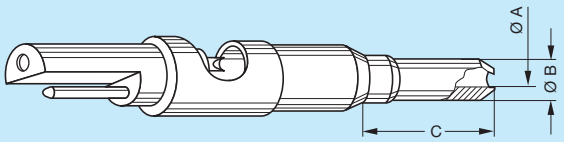
Part number Collet	Reference		Series	Dimensions of the collet (mm)			Ø Thermo-couple max. (mm)	Part number Insulator	Time of delivery
	Model	Ø		ØA	ØB	C			
FFA.0S.703.PN	P	03		0.3	4.0	2.8	0.25	2-polig:	○
FFA.0S.707.PN	P	07		0.7	4.0	2.8	0.65	PSA.0S.302.ZLL	○
FFA.0S.712.PN	P	12		1.2	4.0	2.8	1.15		○
FFA.0S.717.PN	P	17	0S	1.7	4.0	2.8	1.65	3-polig:	○
FFA.0S.722.PN	P	22		2.2	4.0	2.8	2.15	PSA.0S.303.ZLL	○
FFA.0S.727.PN	P	27		2.7	4.0	2.8	2.65		●
FFA.0S.734.PN	P	34		3.4	4.0	2.8	3.35	4-polig:	○
FFA.0S.742.PN	P	42		4.2	5.0	3.7	4.15	PSA.0S.304.ZLL	○
FFA.1S.711.PN	P	11		1.1	2.3	4.5	1.05		●
FFA.1S.712.PN	P	12		1.2	2.3	4.5	1.15	2-polig:	●
FFA.1S.716.PN	P	16		1.6	2.8	4.5	1.55	PSA.1S.302.ZLL	●
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	1S	3.2	4.2	4.5	3.15	3-polig:	●
FFA.1S.734.PN	P	34		3.4	5.8	5.0	3.35	PSA.1S.303.ZLL	○
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	4-polig:	○
FFA.1S.761.PN	P	61		6.1	7.0	5.0	6.05	PSA.1S.304.ZLL	●
FFA.1S.700.PN	P	00		zent.	5.8	5.0	–		●
FFA.2S.722.PN	P	22		2.2	8.0/4.1	12.5	2.15	2-polig:	○
FFA.2S.727.PN	P	27		2.7	8.0/4.1	12.5	2.65	PSA.2S.302.ZLL	○
FFA.2S.734.PN	P	34		3.4	8.0/4.1	12.5	3.35		○
FFA.2S.742.PN	P	42		4.2	8.0	6.0	4.15	3-polig:	○
FFA.2S.746.PN	P	46	2S	4.6	5.8	6.0	4.55	PSA.2S.303.ZLL	●
FFA.2S.752.PN	P	52		5.2	8.0	6.0	5.15		○
FFA.2S.761.PN	P	61		6.1	7.4	6.0	6.05	4-polig:	●
FFA.2S.767.PN	P	67		6.7	8.0	6.0	6.65	PSA.2S.304.ZLL	○
FFA.2S.700.PN	P	00		zent.	7.4	6.0	–		●

● auf Lager
(Lieferzeit je nach Lagerbestand)
○ Auftragsfertigung im Werk

Bestellbeispiel:
Spannzange: FFA.0S.703.PN
Isolationsteil, 2-polig: PSA.0S.302.ZLL

● in stock
(delivery time depends of stock)
○ order in production

Part number example:
Collet: FFA.0S.703.PN
Insulator for 2 contacts: PSA.0S.302.ZLL



Part number Collet	Reference		Series	Dimensions of the collet (mm)			Ø Thermo-couple max. (mm)	Part number Insulator	Part number Collet/Insulator, fitted	Time of delivery
	Model	Ø		ØA	ØB	C				
FFA.0S.702.RN	R	02	0S	0.25	3.20	12.5	0.20		PSA.0S.30●.ZLLR02	●
FFA.0S.703.RN	R	03		0.30	3.20	12.5	0.25	2-polig:	PSA.0S.30●.ZLLR03	○
FFA.0S.705.RN	R	05		0.50	3.20	12.5	0.45	PSA.0S.302.ZLLZ	PSA.0S.30●.ZLLR05	●
FFA.0S.707.RN	R	07		0.70	3.20	12.5	0.65		PSA.0S.30●.ZLLR07	○
FFA.0S.710.RN	R	10		1.00	3.20	12.5	0.95		PSA.0S.30●.ZLLR10	●
FFA.0S.711.RN	R	11		1.10	3.20	12.5	1.05	3-polig:	PSA.0S.30●.ZLLR11	●
FFA.0S.712.RN	R	12		1.20	2.40	12.5	1.15	PSA.0S.303.ZLLZ	PSA.0S.30●.ZLLR12	●
FFA.0S.716.RN	R	16		1.60	3.20	12.5	1.55		PSA.0S.30●.ZLLR16	●
FFA-0S.717.RN	R	17		1.70	3.20	12.5	1.65		PSA.0S.30●.ZLLR17	○
FFA.0S.720.RN	R	20		2.00	3.20	12.5	1.95	4-polig:	PSA.0S.30●.ZLLR20	●
FFA.0S.722.RN	R	22		2.20	3.20	12.5	2.15	PSA.0S.304.ZLLZ	PSA.0S.30●.ZLLR22	○
FFA.0S.726.RN	R	26		2.60	3.45	12.5	2.55		PSA.0S.30●.ZLLR26	●
FFA.0S.727.RN	R	27		2.70	3.45	12.5	2.65		PSA.0S.30●.ZLLR27	○
FFA.0S.732.RN	R	32		3.20	4.10	12.5	3.15		PSA.0S.30●.ZLLR32	○
FFA.1S.712.RN	R	12	1S	1.20	3.20	10.2	1.15	2-polig:	PSA.1S.30●.ZLLR12	○
FFA.1S.716.RN	R	16		1.60	3.20	10.2	1.55	PSA.1S.302.ZLLZ	PSA.1S.30●.ZLLR16	●
FFA.1S.717.RN	R	17		1.70	3.20	10.2	1.65		PSA.1S.30●.ZLLR17	○
FFA.1S.720.RN	R	20		2.00	3.20	10.2	1.95		PSA.1S.30●.ZLLR20	●
FFA.1S.722.RN	R	22		2.20	3.50	10.5	2.15	3-polig:	PSA.1S.30●.ZLLR22	○
FFA.1S.727.RN	R	27		2.70	3.70	10.5	2.65	PSA.1S.303.ZLLZ	PSA.1S.30●.ZLLR27	○
FFA.1S.731.RN	R	31		3.10	4.40	11.2	3.05		PSA.1S.30●.ZLLR31	●
FFA.1S.733.RN	R	33		3.30	4.40	11.2	3.25		PSA.1S.30●.ZLLR33	●
FFA.1S.734.RN	R	34		3.40	4.40	11.2	3.35	4-polig:	PSA.1S.30●.ZLLR34	○
FFA.1S.736.RN	R	36		3.60	4.40	11.2	3.55	PSA.1S.304.ZLLZ	PSA.1S.30●.ZLLR36	●
FFA.1S.746.RN	R	46		4.60	5.80	12.4	4.55		PSA.1S.30●.ZLLR46	●

● auf Lager
(Lieferzeit je nach Lagerbestand)
○ Auftragsfertigung im Werk

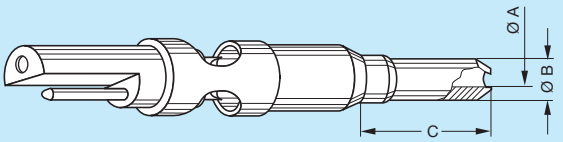
Bestellbeispiel:
PSA.0S.30**2**.ZLLR03

● in stock
(delivery time depends of stock)
○ order in production

Part number example:
PSA.0S.30**2**.ZLLR03

TH – Collets and insulators

TH – Spannzangen u. ISO



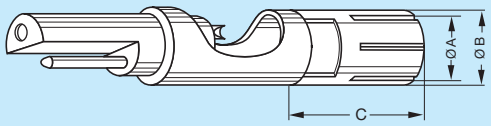
Part number Collet	Reference		Series	Dimensions of the collet (mm)			Ø Thermo-couple max. (mm)	Part number Insulator	Part number Collet/Insulator, fitted	Time of delivery
	Model	Ø		ØA	ØB	C				
								2-polig:		
								PSA.0S.302.ZLLZ		
								3-polig:		
FFA.0S.726.QN	Q	26	0S	2.6	3.45	12.5	2.55	PSA.0S.303.ZLLZ	PSA.0S.30●.ZLLQ26	●
								4-polig:		
								PSA.0S.304.ZLLZ		
								2-polig:		
								PSA.1S.302.ZLLZ		
								3-polig:		
FFA.1S.731.QN	Q	31	1S	3.1	4.4	11.2	3.05	PSA.1S.303.ZLLZ	PSA.1S.30●.ZLLQ31	●
								4-polig:		
								PSA.1S.304.ZLLZ		
								2-polig:		
								PSA.2S.302.ZLLZ		
FFA.2S.700.QN	Q	00	2S	zent.	8.0	13.5	–	3-polig:	PSA.2S.30●.ZLLQ70	●
FFA.2S.746.QN	Q	46		4.6	5.8	11.5	4.55	PSA.2S.303.ZLLZ	PSA.2S.30●.ZLLQ46	●
								4-polig:		
								PSA.2S.304.ZLLZ		

● auf Lager
(Lieferzeit je nach Lagerbestand)
○ Auftragsfertigung im Werk

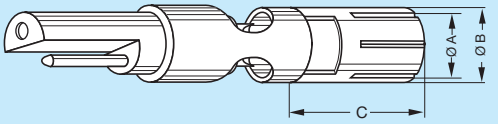
Bestellbeispiel:
PSA.0S.30**2**.ZLLQ26

● in stock
(delivery time depends of stock)
○ order in production

Part number example:
PSA.0S.30**2**.ZLLQ26



Part number Collet	Reference		Series	Dimensions of the collet (mm)			Ø Thermo-couple max. (mm)	Part number Insulator	Part number Collet/Insulator, fitted	Time of delivery
	Model	Ø		ØA	ØB	C				
								2-polig:		
								PSA.0S.302.ZLLZ		
								3-polig:		
FFA.0S.748.LNY	Y	48	0S	5.0	5.7	9.2	4.8	PSA.0S.303.ZLLZ	PSA.0S.30•.ZLLY48	●
								4-polig:		
								PSA.0S.304.ZLLZ		



Part number Collet	Reference		Series	Dimensions- of the collet (mm)			Ø Thermo-couple max. (mm)	Part number Insulator	Part number Collet/Insulator, fitted	Time of delivery
	Model	Ø		ØA	ØB	C				
								2-polig:		
								PSA.0S.302.ZLLZ		
								3-polig:		
FFA.0S.748.LN	L	48	0S	5.0	5.7	9.2	4.8	PSA.0S.303.ZLLZ	PSA.0S.30•.ZLLL48	●
								4-polig:		
								PSA.0S.304.ZLLZ		

● auf Lager
(Lieferzeit je nach Lagerbestand)
○ Auftragsfertigung im Werk

Bestellbeispiel:
PSA.0S.30**2**.ZLLY48
PSA.0S.30**2**.ZLLL48

● in stock
(delivery time depends of stock)
○ order in production

Part number example:
PSA.0S.30**2**.ZLLY48
PSA.0S.30**2**.ZLLL48