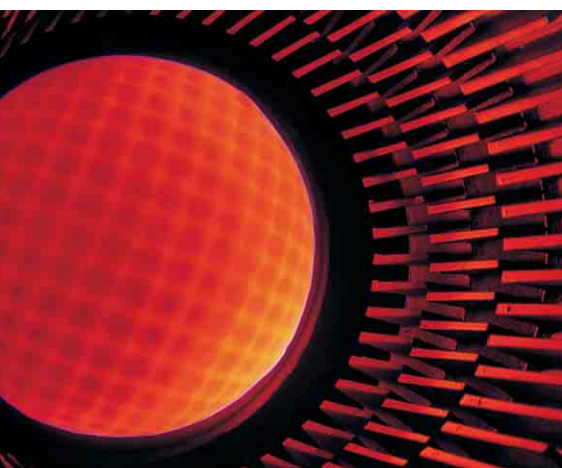




**CONNECTORS  
FOR THE  
HIGHEST  
TEMPERATURE  
RANGE**

**STECKVERBIN-  
DUNGEN FÜR  
HÖCHSTE  
TEMPERATUR-  
MESSBEREICHE**

**THERMO  
SERIES**



 **LEMO®**

Vacuumtest with  
 leakdetector  
 Vakuumtest mit  
 Leakdetektor



Vacuumtight sealed  
 sockets with  
 Ni-Cr/Ni contacts  
 Hochvakuumdichte  
 Apparatedosen mit  
 Ni-Cr/Ni-Kontakten



Crimping:  
 coaxial, biaxial,  
 triaxial, multipole  
 Crimpen:  
 koaxial, biaxial,  
 triaxial, mehrpolig



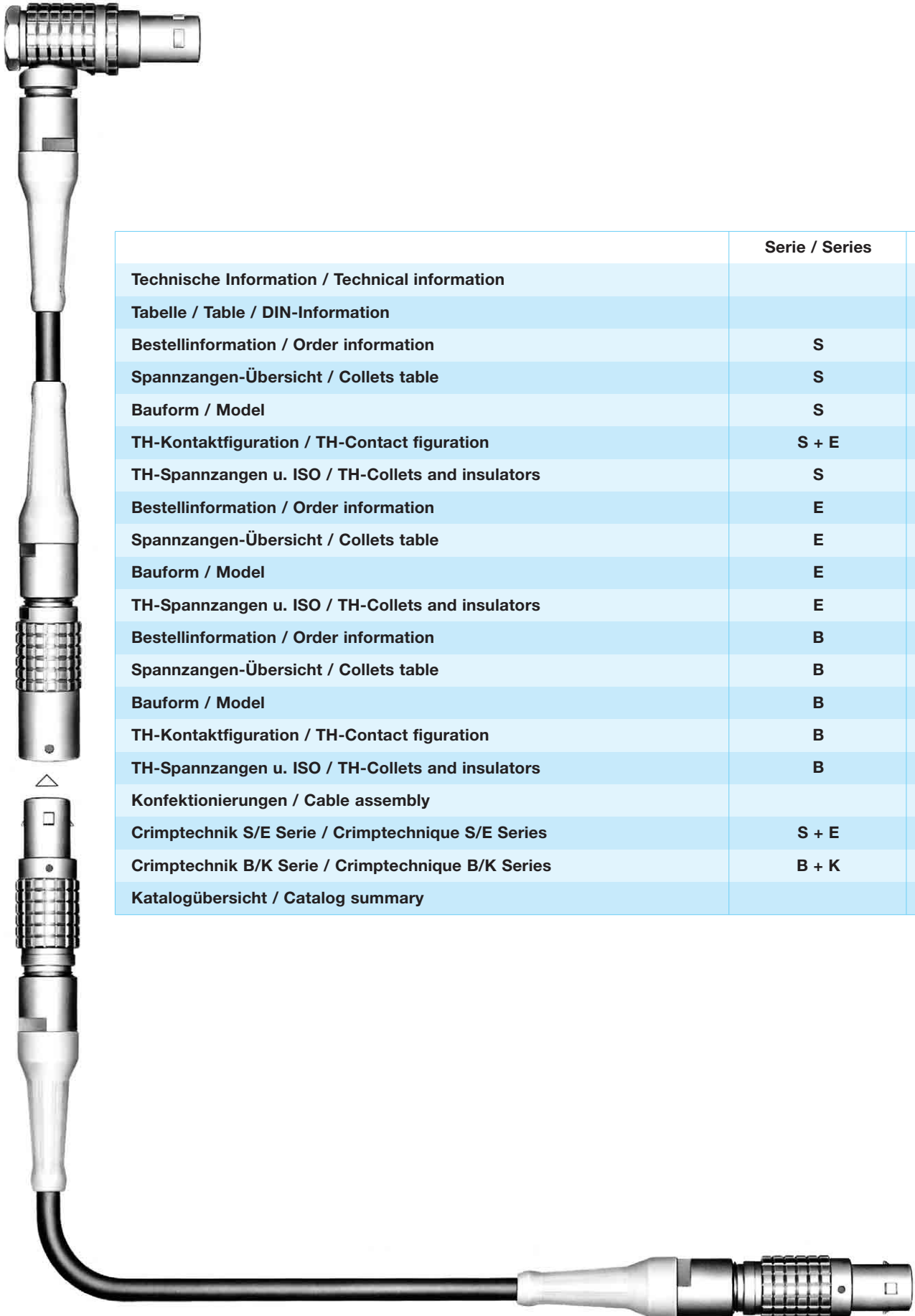
Cable  
 assembling  
 and system  
 technology  
 Konfektionieren  
 von Steckver-  
 bindungen und  
 Systemtechnologie



Cable overmold  
 technology  
 Umspritzen für  
 Kabelzug-  
 entlastungen



Final inspection  
 completely  
 PC-organized  
 Endkontrolle  
 komplett  
 PC-organisiert



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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 in mV und  $\mu$ V. Für diesen Messbereich ist die LEMO-Steckverbindung das ideale Bauteil.

### Mantel-Thermoelemente, Aufbau und Funktion

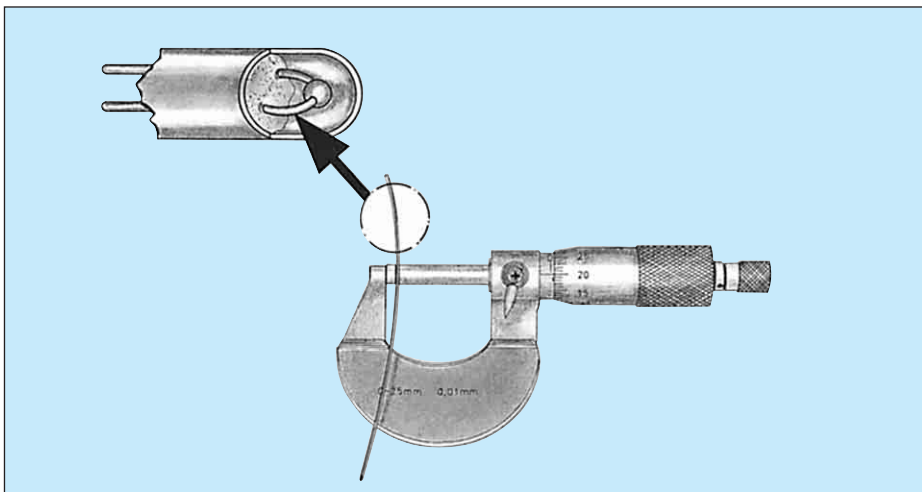
Miniatur-Mantel-Thermoelemente bestehen aus einem Thermopaar, eingebettet in einer hochtemperaturfesten keramischen Isolationsschicht, umgeben von einem Metallmantel, der als Schutz gegen mechanische und chemische Einwirkungen dient.

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  $\mu$ V. The LEMO connector is the ideal construction part for this technology.

### 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.

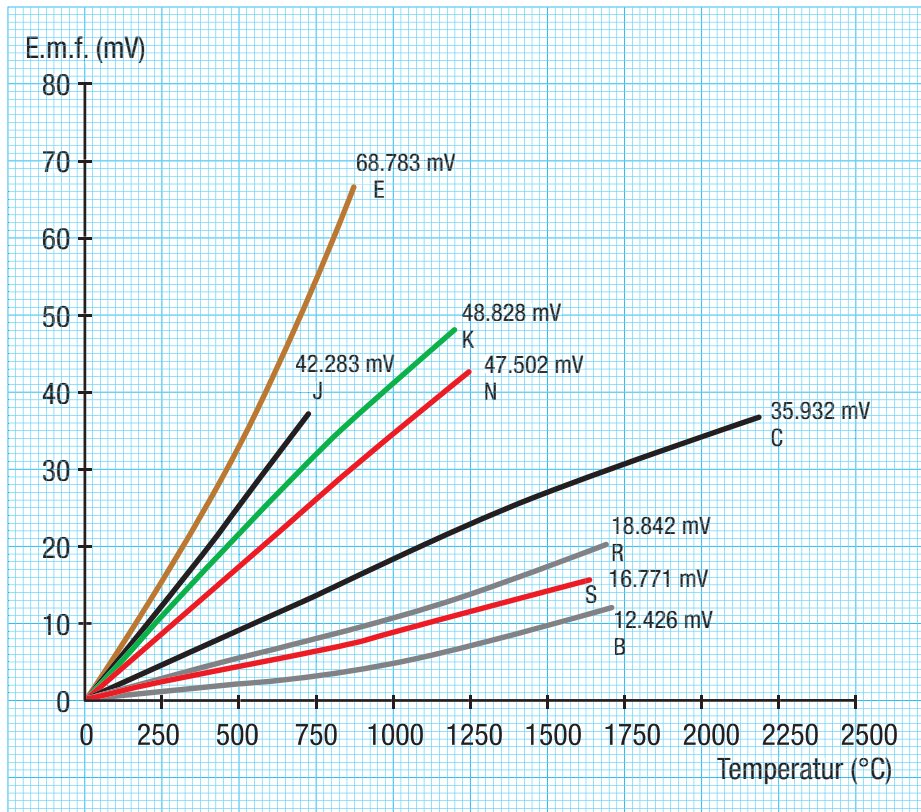
The part of the wire material will be chosen for the temperature range.

The measurements of thermocouples are 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)**

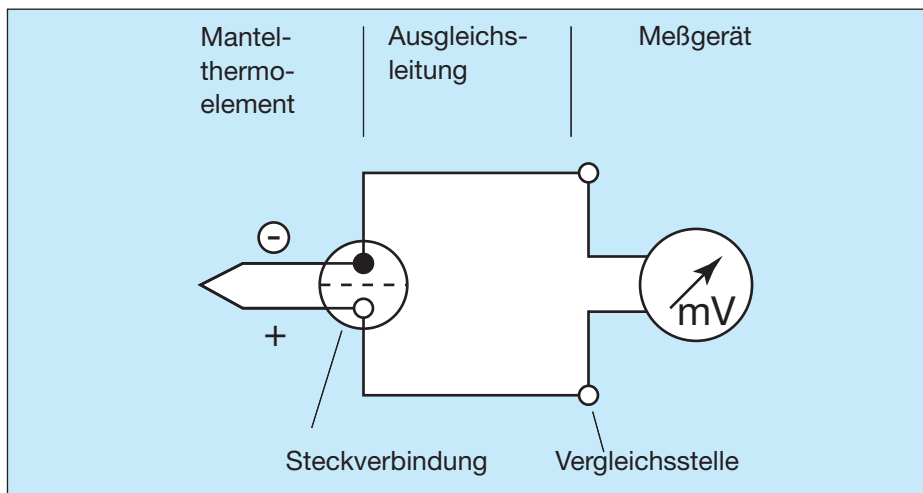


**Steckverbindung und Thermoelement**

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

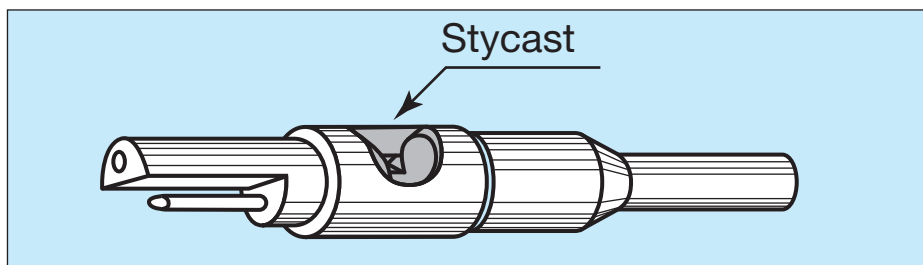
**Connector and thermocouple**

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

**Messaufbau**
**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 Kunststoffen. Hier hat sich insbesondere das Vergußmaterial STYCAST mit einem Temperaturbereich von 73 bis 177 °C, bewährt.

To guarantee a good function of the insulated miniature thermocouples, the connection points must be tightly sealed against humidity. 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 speziell 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 erfolgt 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 thermocouples, you must pay attention to the assembly according to DIN 43711, A.N.S.I. MC 96.1.


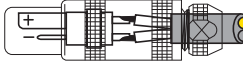
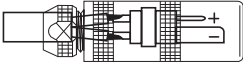
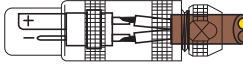

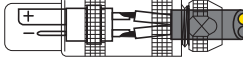



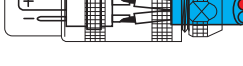

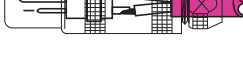








**See following table code colours and +/- splitting.**

**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<br>– Platin, 6% Rodium                           |    | + Cu-Legierung<br>– Cu         |
| E             |    | + Nickel-Chrom<br>(Chromel)<br>– Kupfer-Nickel<br>(Konstantan)        |    | + NiCr<br>– CuNi               |
| J             |    | + Eisen<br>– Kupfer-Nickel<br>(Konstantan)                            |    | + Fe<br>– CuNi                 |
| K             |    | + Nickel-Chrom<br>(Chromel)<br>– Nickel<br>(Alumel)                   |    | + NiCr + Fe<br>– Ni – CuNi     |
| L             |  | + Eisen<br>– Kupfer-Nickel<br>(Konstantan)                            |  | + Fe<br>– CuNi                 |
| N             |  | + Nickel-Chrom-Silizium<br>(Nicrosil)<br>– Nickel-Silizium<br>(Nisil) |  | + NiCrSi + Cu<br>– NiSi – CuNi |
| R             |  | + Platin, 13% Rodium<br>– Platin                                      |  | + Cu<br>– CuNi                 |
| S             |  | + Platin, 10% Rodium<br>– Platin                                      |  | + Cu<br>– CuNi                 |
| T             |  | + Kupfer<br>– Kupfer-Nickel<br>(Konstantan)                           |  | + Cu<br>– CuNi                 |
| U             |  | + Kupfer<br>– Kupfer-Nickel<br>(Konstantan)                           |  | + Cu<br>– CuNi                 |



**Die gebräuchlichsten Aus-  
gleichskabel** (vor Dezember 1993)

**The common compensation  
cables** (before december 1993)

| Typ<br>Model | Standards | Mantel<br>(Sheath) | Seele +<br>(Wire +) | Seele -<br>(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        | ●                  | ⊕                   | ●                   |

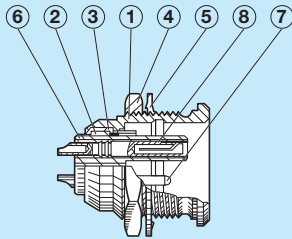
Ab Dezember 1993 sind die unterschiedlichen Normen, NF C 42-324, DIN 43714 (ausgenommen Typ L) BS 1843 und ANSI MC 96.1 in den internationalen Standards IEC 584-3 und der DIN 43722 zusammengefasst.

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<br>Model | Standards              | Mantel<br>(Sheath) | Seele +<br>(Wire +) | Seele -<br>(Wire -) |
|--------------|------------------------|--------------------|---------------------|---------------------|
| K            | IEC 584-3<br>DIN 43722 | ●                  | ⊕                   | ⊖                   |
| J            | IEC 584-3<br>DIN 43722 | ●                  | ⊕                   | ⊖                   |
| E            | IEC 584-3<br>DIN 43722 | ●                  | ⊕                   | ⊖                   |
| T            | IEC 584-3<br>DIN 43722 | ●                  | ⊕                   | ⊖                   |
| S            | IEC 584-3<br>DIN 43722 | ●                  | ⊕                   | ⊖                   |

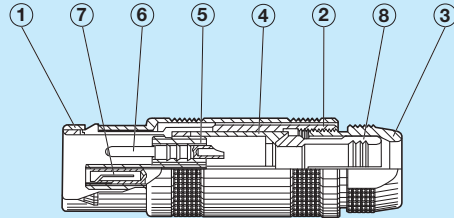
**Konstruktions-Information**  
**S Serie Standard**

**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

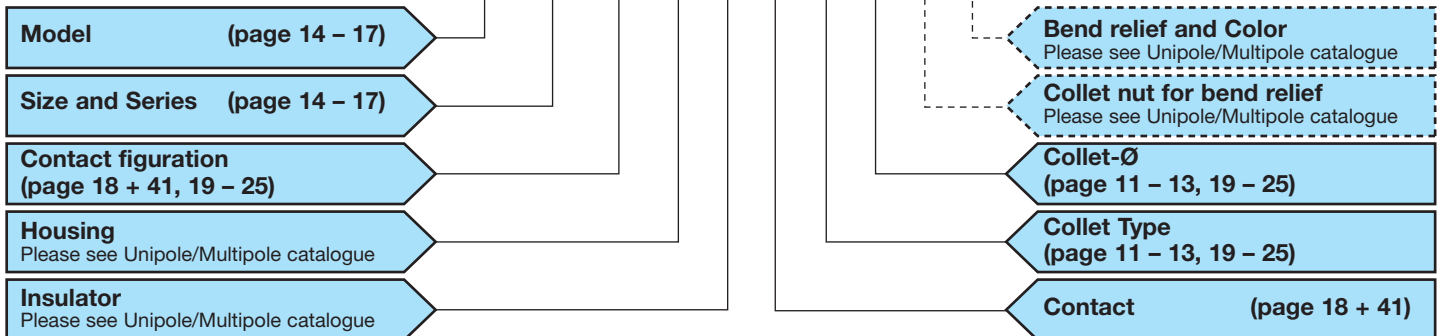
**Bestellbeispiele**

**Part number example**

**Standardstecker, gerade**

**Straight standard plug**

FFA OS 302 C L A L 32 Z N



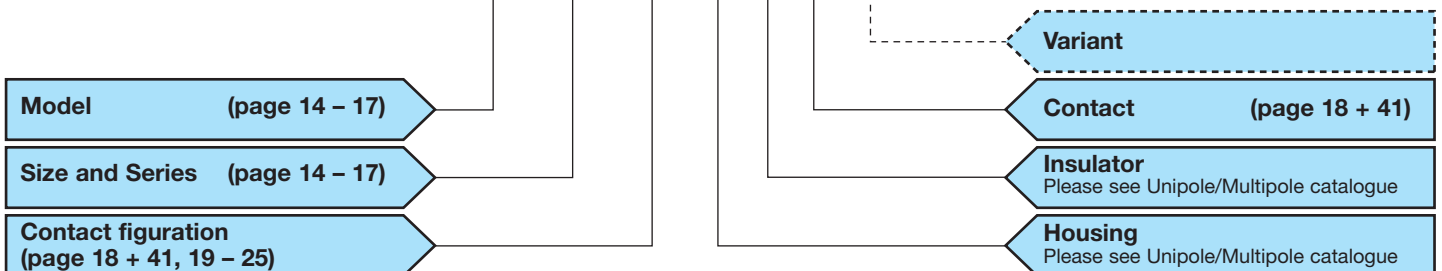
Standardstecker gerade, Größe 0, S Serie  
 mehrpolig (2 Kontakte), Außenkörper aus  
 Messing, Isolationsteil aus PEEK, männlicher  
 und weiblicher Lötkontakt, Spannzange für  
 geschirmtes Kabel, Durchmesser 3,2 mm.

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



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

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

**S Series - Size 0**  
**S Serie - Größe 0**

| Reference |    | C = AG        |     |              |      | L = NG                   |                 | K = Adapter to the next size |                                 |
|-----------|----|---------------|-----|--------------|------|--------------------------|-----------------|------------------------------|---------------------------------|
|           |    | Ø Collet (mm) |     | Ø Cable (mm) |      | Part number collet<br>1) | Re-<br>marks    | Part number<br>adapter<br>2) | Part number<br>Collet nut<br>2) |
| Model     | Ø  | ØA            | ØB  | max.         | min. |                          |                 |                              |                                 |
| C         | 17 | 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            | ● <sup>4)</sup> |                              | FFA.0S.133.LC                   |
| C         | 50 | 5,1           | 5,1 | 5,0          | 4,4  | FFA.0S.750.CN            | ● <sup>4)</sup> |                              | 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            | ● <sup>3)</sup> |                              |                                 |
| C         | 22 | 2,2           | —   | 2,1          | 1,7  | FLA.0S.722.CN            | ● <sup>3)</sup> |                              |                                 |
| C         | 27 | 2,7           | —   | 2,6          | 2,2  | FLA.0S.727.CN            | ● <sup>3)</sup> |                              |                                 |
| C         | 32 | 3,2           | —   | 3,1          | 2,7  | FLA.0S.732.CN            | ● <sup>3)</sup> |                              |                                 |
| C         | 37 | 3,7           | 3,2 | 3,6          | 3,0  | FLA.0S.737.CN            | ● <sup>3)</sup> |                              |                                 |
| C         | 42 | 4,2           | 3,7 | 4,1          | 3,3  | FLA.0S.742.CN            | ● <sup>3)</sup> |                              |                                 |
| C         | 44 | 4,4           | 3,7 | 4,3          | 3,5  | FLA.0S.744.CN            | ● <sup>3)</sup> |                              |                                 |
| 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            | ● <sup>4)</sup> |                              | FFA.0S.133.LC                   |

<sup>1)</sup> Für Einzelbestellung der Spannzangen.

<sup>2)</sup> Für Einzelbestellung einer Spannzange der Type K benötigt man je einen Adapter und eine Spannschraube (Bestell-Nr. siehe oben).

<sup>3)</sup> Diese Spannzange paßt zu den Typen FLA, FFP und PCP.

<sup>4)</sup> Diese Spannzangen können nicht in Bauformen mit Spannschrauben für Knickschutztüllen verwendet werden.

<sup>1)</sup> For individual orders of collets.

<sup>2)</sup> For individual orders of a collet type K an adapter each is required as well as a collet nut (part number is mentioned above).

<sup>3)</sup> This collet is used for the FLA, FFP and PCP models.

<sup>4)</sup> These collets cannot be used for connector models with nut for fitting a bend relief.

● lieferbar  
○ auf Anfrage

● in stock  
○ on request

S Series - Size 1

S Serie - Größe 1

| Reference |    | C = AG        |     |              |      | L = NG                   |                 | K = Adapter to the next size |                                 |               |
|-----------|----|---------------|-----|--------------|------|--------------------------|-----------------|------------------------------|---------------------------------|---------------|
|           |    | Ø Collet (mm) |     | Ø Cable (mm) |      | Part number collet<br>1) | Re-<br>marks    | Part number<br>adapter<br>2) | Part number<br>Collet nut<br>2) |               |
| Model     | Ø  | Series        | 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   | ● <sup>4)</sup>              |                                 | FFA.1S.131.LC |
| C         | 68 |               | 6,8 | 5,5          | 6,7  | 6,0                      | FFA.1S.768.CN   | ● <sup>4)</sup>              |                                 | 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   | ● <sup>3)</sup>              |                                 | FFA.1S.130.LC |
| C         | 22 |               | 2,2 | —            | 2,1  | 1,7                      | FLA.1S.722.CN   | ● <sup>3)</sup>              |                                 | FFA.1S.130.LC |
| C         | 27 |               | 2,7 | —            | 2,6  | 2,2                      | FLA.1S.727.CN   | ● <sup>3)</sup>              |                                 | FFA.1S.130.LC |
| C         | 32 |               | 3,2 | —            | 3,1  | 2,6                      | FLA.1S.732.CN   | ● <sup>3)</sup>              |                                 | FFA.1S.130.LC |
| C         | 37 |               | 3,7 | —            | 3,6  | 2,7                      | FLA.1S.737.CN   | ● <sup>3)</sup>              |                                 | FFA.1S.130.LC |
| C         | 42 |               | 4,2 | —            | 4,1  | 3,3                      | FLA.1S.742.CN   | ● <sup>3)</sup>              |                                 | FFA.1S.130.LC |
| C         | 47 |               | 4,7 | —            | 4,6  | 3,8                      | FLA.1S.747.CN   | ● <sup>3)</sup>              |                                 | FFA.1S.130.LC |
| C         | 52 |               | 5,2 | —            | 5,1  | 4,3                      | FLA.1S.752.CN   | ● <sup>3)</sup>              |                                 | FFA.1S.130.LC |
| C         | 57 |               | 5,7 | —            | 5,6  | 4,8                      | FLA.1S.757.CN   | ● <sup>3)</sup>              |                                 | FFA.1S.130.LC |
| C         | 62 |               | 6,2 | 5,2          | 6,1  | 5,3                      | FLA.1S.762.CN   | ● <sup>3)</sup>              |                                 | FFA.1S.130.LC |
| C         | 66 |               | 6,6 | 5,5          | 6,5  | 5,9                      | FLA.1S.766.CN   | ● <sup>3)</sup>              |                                 | FFA.1S.131.LC |
| C         | 68 |               | 6,8 | 5,5          | 6,7  | 6,0                      | FLA.1S.768.CN   | ● <sup>3)</sup>              |                                 | 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            | ● <sup>4)</sup> |                              | 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 Spansschrauben für Knickschutzfüßen verwendet werden.

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.

● lieferbar  
○ auf Anfrage● in stock  
○ on request

**S Series - Size 2**  
**S Serie - Größe 2**

| Reference |    | C = AG        |     |              |      | L = NG                           |                 | K = Adapter to the next size      |                                      |
|-----------|----|---------------|-----|--------------|------|----------------------------------|-----------------|-----------------------------------|--------------------------------------|
|           |    | Ø Collet (mm) |     | Ø Cable (mm) |      | Part number collet <sup>1)</sup> | Re-remarks      | Part number adapter <sup>2)</sup> | Part number Collet nut <sup>2)</sup> |
| Model     | Ø  | ØA            | ØB  | max.         | min. |                                  |                 |                                   |                                      |
| C         | 17 | 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                    | ● <sup>3)</sup> |                                   | FFA.2S.130.LC                        |
| C         | 27 | 2,7           | -   | 2,5          | 1,7  | FLA.2S.727.CN                    | ● <sup>3)</sup> |                                   | FFA.2S.130.LC                        |
| C         | 32 | 3,2           | -   | 3,0          | 2,5  | FLA.2S.732.CN                    | ● <sup>3)</sup> |                                   | FFA.2S.130.LC                        |
| C         | 42 | 4,2           | -   | 4,0          | 3,1  | FLA.2S.742.CN                    | ● <sup>3)</sup> |                                   | FFA.2S.130.LC                        |
| C         | 52 | 5,2           | -   | 5,0          | 4,1  | FLA.2S.752.CN                    | ● <sup>3)</sup> |                                   | FFA.2S.130.LC                        |
| C         | 62 | 6,2           | -   | 6,0          | 5,1  | FLA.2S.762.CN                    | ● <sup>3)</sup> |                                   | FFA.2S.130.LC                        |
| C         | 72 | 7,2           | 6,7 | 7,0          | 6,1  | FLA.2S.772.CN                    | ● <sup>3)</sup> |                                   | FFA.2S.130.LC                        |
| C         | 77 | 7,7           | 6,7 | 7,5          | 7,1  | FLA.2S.777.CN                    | ● <sup>3)</sup> |                                   | FFA.2S.130.LC                        |
| L         | 82 | 8,2           | 6,7 | 8,0          | 7,6  | FLA.2S.782.CN                    | ● <sup>3)</sup> |                                   | FFA.2S.130.LC                        |
| L         | 87 | 8,7           | 6,7 | 8,5          | 8,1  | FLA.2S.787.CN                    | ● <sup>3)</sup> |                                   | 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                        |

<sup>1)</sup> Für Einzelbestellung der Spannzangen.

<sup>2)</sup> Für Einzelbestellung einer Spannzange der Type K benötigt man je einen Adapter und eine Spannschraube (Bestell-Nr. siehe oben).

<sup>3)</sup> Diese Spannzange paßt zu Type FLA.

<sup>1)</sup> For individual orders of collets.

<sup>2)</sup> For individual orders of a collet type K an adapter each is required as well as a collet nut (part number is mentioned above).

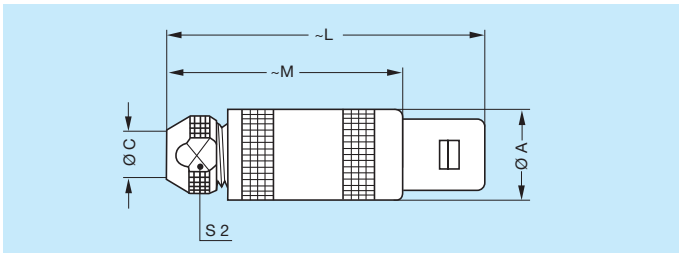
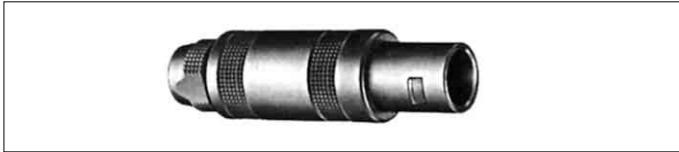
<sup>3)</sup> This collet is used for the FLA models.

● lieferbar  
○ auf Anfrage

● in stock  
○ on request

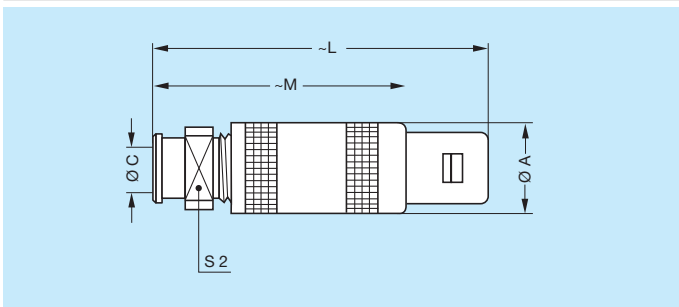
S Series - standard

S Serie - Standard



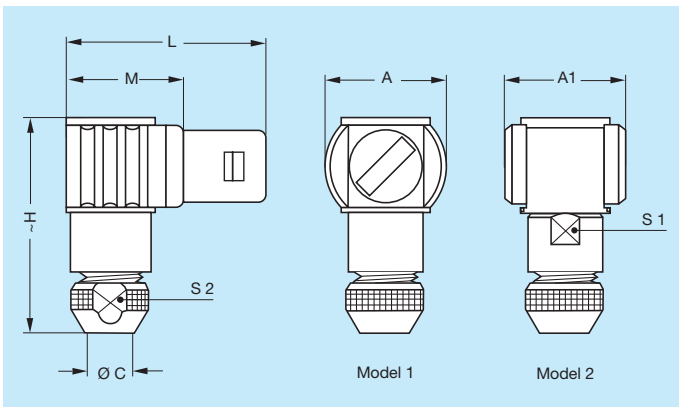
### Standard plug Standardstecker

| 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°)

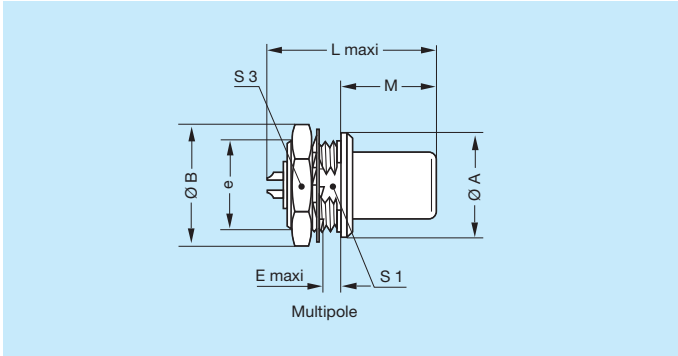
| Reference |        | Dimensions (mm) |    |     |      |      |      |    |      |
|-----------|--------|-----------------|----|-----|------|------|------|----|------|
| Model     | Series | A               | A1 | C   | H    | L    | M    | S1 | S2   |
| FLA       | 0S     | 13              | 13 | 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



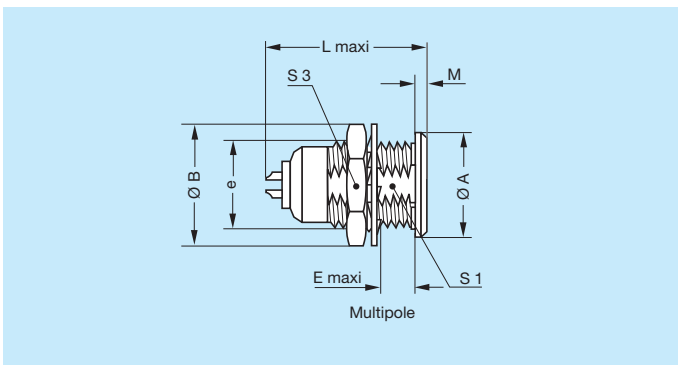
**Plug with visible shell, non latching  
Positive Apparatedose (Einbaustecker)**



| 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 |



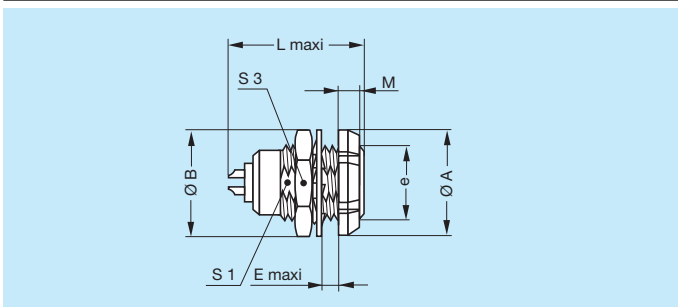
**Fixed socket  
Einbauapparatedose**



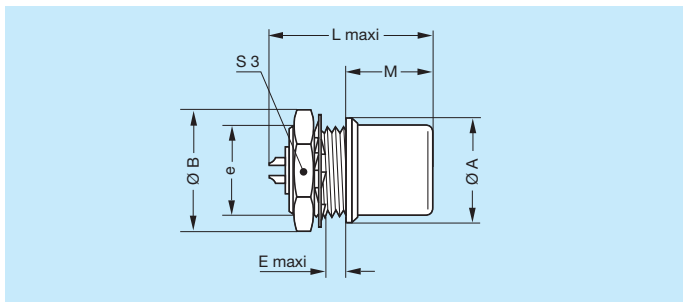
| Reference |        | Dimensions (mm) |      |          |     |      |     |      |    |
|-----------|--------|-----------------|------|----------|-----|------|-----|------|----|
| Model     | Series | A               | B    | e        | E   | L    | M   | S1   | S3 |
| ERA       | 0S     | 10              | 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**

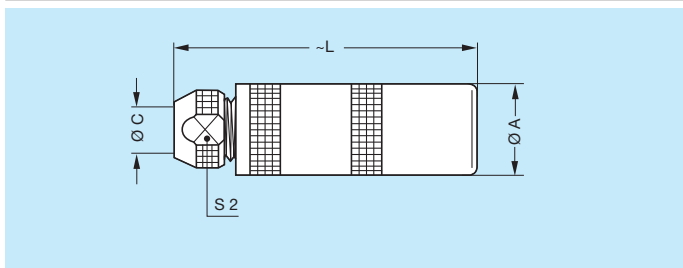
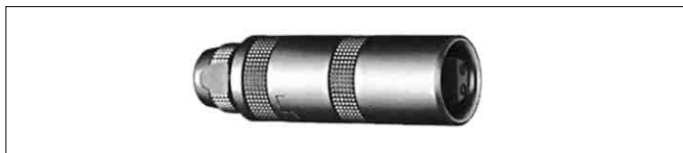


| Reference |        | Dimensions (mm) |      |          |     |      |     |      |    |
|-----------|--------|-----------------|------|----------|-----|------|-----|------|----|
| Model     | Series | A               | B    | e        | E   | L    | M   | S1   | S3 |
| ERD       | 0S     | 12              | 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 |



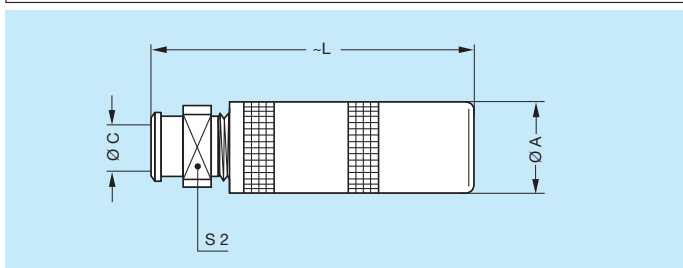
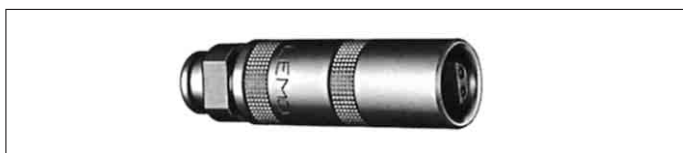
**Fixed socket with visible shell**  
**Einbauapparatdose mit vorstehendem Körper**

| 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**

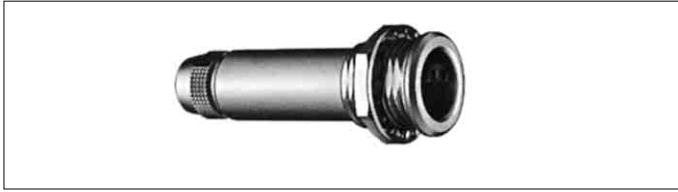
| Reference |        | Dimensions (mm) |     |      |      |
|-----------|--------|-----------------|-----|------|------|
| Model     | Series | A               | C   | L    | S2   |
| PCA       | 0S     | 8.9             | 4.2 | 33.5 | 6.5  |
| PCA       | 1S     | 11.9            | 6.2 | 40.5 | 8.5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



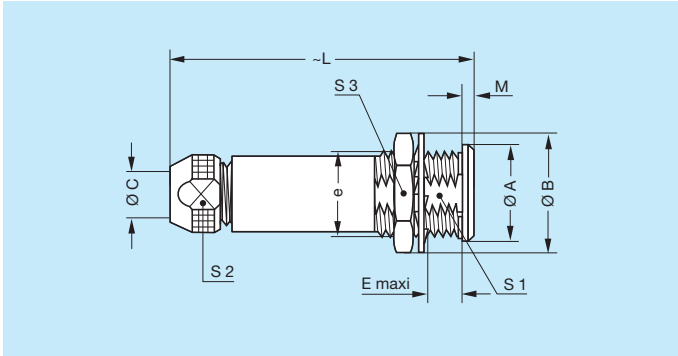
**Free socket with collet for a strain relief**  
**Kabelkupplung mit Knickschutzschraube**

| 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 |

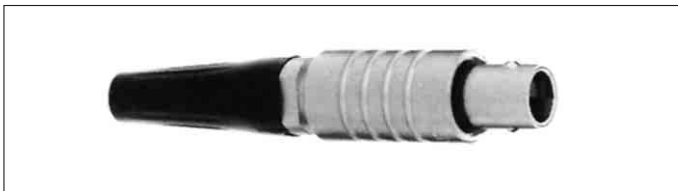




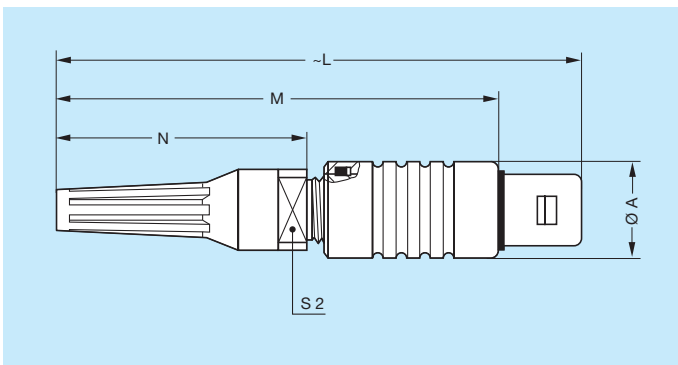
**Fixed socket with cable collet**  
**Einbauapparatdose mit Zugentlastung**
























| 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 |

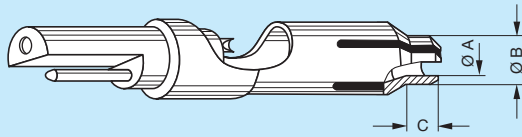
| TH-Insulator |   |   | Reference | Series | Number of contacts | Contacts-Ø<br>Ø A (mm) | Max. Conductor-Ø | Contact-no.    | Thermo contact-Type |               |               |               |               |             |
|--------------|---|---|-----------|--------|--------------------|------------------------|------------------|----------------|---------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

## Bestellbeispiel

Isolationsteile: FFA.0S.302.ZLK  
 PSA.0S.302.ZLK  
 Stecker: FFA.0S.302.CLK  
 Apparatedose: ERA.0S.302.CLK  
 Kupplung: PCA.0S.302.CLK

## Part number example

Insulator: FFA.0S.302.ZLK  
 PSA.0S.302.ZLK  
 Plug: FFA.0S.302.CLK  
 Fixed socket: ERA.0S.302.CLK  
 Free socket: PCA.0S.302.CLK



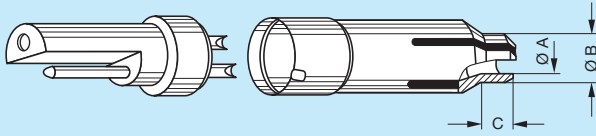
| Part number<br>Collet | Reference |    | Series | Dimensions<br>of the collet (mm) |     |     | Ø Thermo-<br>couple<br>max. (mm) | Part number<br>Insulator    | Part number<br>Collet/Insulator,<br>fitted | Time of<br>delivery |   |
|-----------------------|-----------|----|--------|----------------------------------|-----|-----|----------------------------------|-----------------------------|--|---------------------|---|
|                       | Model     | Ø  |        | ØA                               | ØB  | C   |                                  |                             |  |                     |   |
| FFA.0S.703.FN         | F         | 03 | 0S     | 0.3                              | 4.0 | 2.8 | 0.27                             | 2-polig:<br>PSA.0S.302.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.303.ZLLZ                            | 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.304.ZLLZ                            | 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:<br>PSA.1S.302.ZLLZ | PSA.1S.30..ZLLF17                          | ○                   |   |
| FFA.1S.722.FN         | F         | 22 |        | 2.2                              | 5.0 | 5.2 | 2.10                             | PSA.1S.302.ZLLZ             | PSA.1S.30..ZLLF22                          | ○                   |   |
| FFA.1S.727.FN         | F         | 27 |        | 2.7                              | 5.0 | 5.2 | 2.60                             | 3-polig:<br>PSA.1S.303.ZLLZ | PSA.1S.30..ZLLF27                          | ○                   |   |
| FFA.1S.734.FN         | F         | 34 |        | 3.4                              | 5.0 | 5.2 | 3.30                             | PSA.1S.303.ZLLZ             | PSA.1S.30..ZLLF34                          | ○                   |   |
| FFA.1S.742.FN         | F         | 42 |        | 4.2                              | 6.0 | 5.2 | 4.10                             | 4-polig:<br>PSA.1S.304.ZLLZ | PSA.1S.30..ZLLF42                          | ○                   |   |
| FFA.1S.752.FN         | F         | 52 |        | 5.2                              | 6.0 | 5.2 | 5.10                             | PSA.1S.304.ZLLZ             | PSA.1S.30..ZLLF52                          | ○                   |   |
| FFA.1S.761.FN         | F         | 61 |        | 6.1                              | 6.7 | 5.2 | 6.00                             | PSA.1S.30..ZLLF67           | PSA.1S.30..ZLLF67                          | ○                   |   |
| FFA.2S.722.FN         | F         | 22 | 2S     | 2.2                              | 6.0 | 7.5 | 2.10                             | 2-polig:<br>PSA.2S.302.ZLLZ | PSA.2S.30..ZLLF22                          | ○                   |   |
| FFA.2S.727.FN         | F         | 27 |        | 2.7                              | 6.0 | 7.5 | 2.60                             | PSA.2S.302.ZLLZ             | PSA.2S.30..ZLLF27                          | ○                   |   |
| FFA.2S.734.FN         | F         | 34 |        | 3.4                              | 6.0 | 7.5 | 3.30                             | 3-polig:<br>PSA.2S.303.ZLLZ | PSA.2S.30..ZLLF34                          | ○                   |   |
| FFA.2S.742.FN         | F         | 42 |        | 4.2                              | 6.0 | 7.5 | 4.10                             | PSA.2S.303.ZLLZ             | PSA.2S.30..ZLLF42                          | ○                   |   |
| FFA.2S.752.FN         | F         | 52 |        | 5.2                              | 8.3 | 7.5 | 5.10                             | 4-polig:<br>PSA.2S.304.ZLLZ | PSA.2S.30..ZLLF52                          | ○                   |   |
| FFA.2S.767.FN         | F         | 67 |        | 6.7                              | 8.3 | 7.5 | 6.60                             | PSA.2S.304.ZLLZ             | PSA.2S.30..ZLLF67                          | ○                   |   |

- auf Lager  
(Lieferzeit je nach Lagerbestand)
- Auftragsfertigung im Werk

Bestellbeispiel:  
PSA.0S.302.ZLLF03

- in stock  
(delivery time depends of stock)
- order in production

Part number example:  
PSA.0S.302.ZLLF03



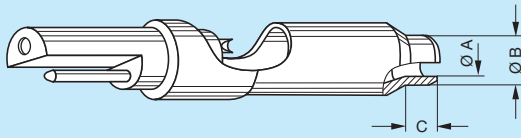
| Part number<br>Collet | Reference |    | Series | Dimensions<br>of the collet (mm) |     |     | Ø Thermo-<br>couple<br>max. (mm) | Part number<br>Insulator   | Time of<br>delivery |  |   |
|-----------------------|-----------|----|--------|----------------------------------|-----|-----|----------------------------------|--|---------------------|--|---|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

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

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

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

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



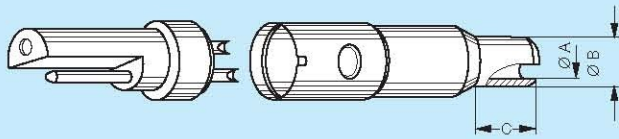
| Part number Collet | Reference |    | Series | Dimensions of the collet (mm) |         |      | Ø Thermo-couple max. (mm) | Part number Insulator       | Part number Collet/Insulator, fitted | Time of delivery |
|--------------------|-----------|----|--------|-------------------------------|---------|------|---------------------------|-----------------------------|--------------------------------------|------------------|
|                    | Model     | Ø  |        | ØA                            | ØB      | C    |                           |                             |                                      |                  |
| FFA.0S.703.NN      | N         | 03 | 0S     | 0.30                          | 4.0     | 2.8  | 0.25                      | 2-polig:<br>PSA.0S.302.ZLLZ | PSA.0S.30..ZLLN03                    | ○                |
| FFA.0S.705.NN      | N         | 05 |        | 0.55                          | 4.0     | 2.8  | 0.50                      |                             | PSA.0S.30..ZLLN05                    | ●                |
| FFA.0S.707.NN      | N         | 07 |        | 0.70                          | 4.0     | 2.8  | 0.65                      |                             | 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                      | 3-polig:<br>PSA.0S.303.ZLLZ | PSA.0S.30..ZLLN15                    | ●                |
| FFA.0S.717.NN      | N         | 17 |        | 1.70                          | 4.0     | 2.8  | 1.65                      |                             | PSA.0S.30..ZLLN17                    | ○                |
| FFA.0S.720.NN      | N         | 20 |        | 2.00                          | 4.0     | 2.8  | 1.95                      |                             | 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                      | 4-polig:<br>PSA.0S.304.ZLLZ | PSA.0S.30..ZLLN27                    | ○                |
| FFA.0S.730.NN      | N         | 30 |        | 3.00                          | 4.0     | 2.8  | 2.95                      |                             | PSA.0S.30..ZLLN30                    | ●                |
| FFA.0S.732.NN      | N         | 32 |        | 3.25                          | 4.0     | 2.8  | 3.20                      |                             | 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 | 1S     | 1.70                          | 6.0     | 5.2  | 1.65                      | 2-polig:<br>PSA.1S.302.ZLLZ | PSA.1S.30..ZLLN17                    | ○                |
| FFA.1S.722.NN      | N         | 22 |        | 2.20                          | 6.0     | 5.2  | 2.15                      | 3-polig:<br>PSA.1S.303.ZLLZ | PSA.1S.30..ZLLN22                    | ○                |
| FFA.1S.727.NN      | N         | 27 |        | 2.70                          | 6.0     | 5.2  | 2.65                      |                             | PSA.1S.30..ZLLN27                    | ○                |
| FFA.1S.734.NN      | N         | 34 |        | 3.40                          | 6.0     | 5.2  | 3.35                      | 4-polig:<br>PSA.1S.304.ZLLZ | PSA.1S.30..ZLLN34                    | ○                |
| FFA.1S.742.NN      | N         | 42 |        | 4.20                          | 6.0     | 5.2  | 4.15                      |                             | PSA.1S.30..ZLLN42                    | ○                |
| FFA.1S.752.NN      | N         | 52 |        | 5.20                          | 6.0     | 5.2  | 3.55                      |                             | PSA.1S.30..ZLLN52                    | ○                |
| FFA.2S.722.NN      | N         | 22 | 2S     | 2.20                          | 8.0/4.1 | 12.5 | 2.15                      | 2-polig:<br>PSA.2S.302.ZLLZ | PSA.2S.30..ZLLN22                    | ○                |
| FFA.2S.727.NN      | N         | 27 |        | 2.70                          | 8.0/4.1 | 12.5 | 2.65                      |                             | 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                      | 3-polig:<br>PSA.2S.303.ZLLZ | PSA.2S.30..ZLLN34                    | ○                |
| FFA.2S.742.NN      | N         | 42 |        | 4.20                          | 8.0     | 12.5 | 4.15                      |                             | PSA.2S.30..ZLLN42                    | ○                |
| FFA.2S.746.NN      | N         | 46 |        | 4.60                          | 8.0     | 12.5 | 4.55                      |                             | 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:<br>PSA.2S.304.ZLLZ | PSA.2S.30..ZLLN52                    | ○                |
| FFA.2S.761.NN      | N         | 61 |        | 6.10                          | 8.0     | 12.5 | 6.05                      |                             | 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.302.ZLLN03

- in stock  
(delivery time depends of stock)
- order in production

Part number example:  
PSA.0S.302.ZLLN03



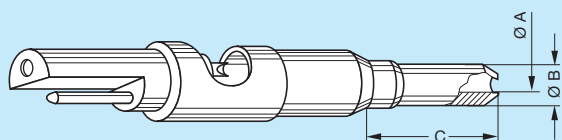
| Part number<br>Collet | Reference |    | Series | Dimensions<br>of the collet (mm) |         |         | Ø Thermo-<br>couple<br>max. (mm) | Part number<br>Insulator   | Time of<br>delivery        |
|-----------------------|-----------|----|--------|----------------------------------|---------|---------|----------------------------------|----------------------------|----------------------------|
|                       | Model     | Ø  |        | ØA                               | ØB      | C       |                                  |                            |                            |
| FFA.0S.703.PN         | P         | 03 | 0S     | 0.3                              | 4.0     | 2.8     | 0.25                             | 2-polig:<br>PSA.0S.302.ZLL | ○                          |
| 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                             | 3-polig:<br>PSA.0S.303.ZLL | ○                          |
| 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                             | 4-polig:<br>PSA.0S.304.ZLL | ●                          |
| 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                             | 2-polig:<br>PSA.1S.302.ZLL | ●                          |
| 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                             | 3-polig:<br>PSA.1S.303.ZLL | ●                          |
| 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                             | 4-polig:<br>PSA.1S.304.ZLL | ●                          |
| 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.1S.700.PN         | P         | 00 |        | zent.                            | 5.8     | 5.0     | –                                | ●                          |                            |
| FFA.2S.722.PN         | P         | 22 |        | 2S                               | 2.2     | 8.0/4.1 | 12.5                             | 2.15                       | 2-polig:<br>PSA.2S.302.ZLL |
| 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    |                                  | 8.0     | 6.0     | 4.15                             | 3-polig:<br>PSA.2S.303.ZLL | ○                          |
| FFA.2S.746.PN         | P         | 46 | 4.6    |                                  | 5.8     | 6.0     | 4.55                             |                            | ●                          |
| FFA.2S.752.PN         | P         | 52 | 5.2    |                                  | 8.0     | 6.0     | 5.15                             | ○                          |                            |
| FFA.2S.761.PN         | P         | 61 | 6.1    |                                  | 8.0     | 6.0     | 6.05                             | 4-polig:<br>PSA.2S.304.ZLL | ●                          |
| FFA.2S.767.PN         | P         | 67 | 6.7    |                                  | 8.0     | 6.0     | 6.65                             |                            | ○                          |
| FFA.2S.700.PN         | P         | 00 | zent.  |                                  | 8.0     | 6.0     | –                                |                            | ●                          |

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

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

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

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



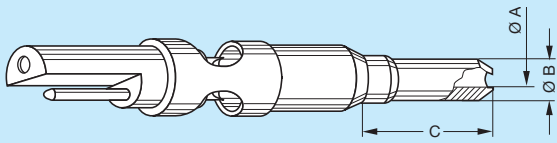
| Part number Collet | Reference |    | Series | Dimensions of the collet (mm) |      |      | Ø Thermo-couple max. (mm) | Part number Insulator       | Part number Collet/Insulator, fitted | Time of delivery  |   |
|--------------------|-----------|----|--------|-------------------------------|------|------|---------------------------|-----------------------------|--------------------------------------|-------------------|---|
|                    | Model     | Ø  |        | ØA                            | ØB   | C    |                           |                             |                                      |                   |   |
| FFA.0S.702.RN      | R         | 02 | 0S     | 0.25                          | 3.20 | 12.5 | 0.20                      | 2-polig:<br>PSA.0S.302.ZLLZ | PSA.0S.30..ZLLR02                    | ●                 |   |
| FFA.0S.703.RN      | R         | 03 |        | 0.30                          | 3.20 | 12.5 | 0.25                      |                             | PSA.0S.30..ZLLR03                    | ○                 |   |
| FFA.0S.705.RN      | R         | 05 |        | 0.50                          | 3.20 | 12.5 | 0.45                      |                             | 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:<br>PSA.0S.303.ZLLZ          | PSA.0S.30..ZLLR11 | ● |
| FFA.0S.712.RN      | R         | 12 |        | 1.20                          | 2.40 | 12.5 | 1.15                      |                             | 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:<br>PSA.0S.304.ZLLZ          | PSA.0S.30..ZLLR20 | ● |
| FFA.0S.722.RN      | R         | 22 |        | 2.20                          | 3.20 | 12.5 | 2.15                      |                             | 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:<br>PSA.1S.302.ZLLZ | PSA.1S.30..ZLLR12                    | ○                 |   |
| FFA.1S.716.RN      | R         | 16 |        | 1.60                          | 3.20 | 10.2 | 1.55                      |                             | 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:<br>PSA.1S.303.ZLLZ          | PSA.1S.30..ZLLR22 | ○ |
| FFA.1S.727.RN      | R         | 27 |        | 2.70                          | 3.70 | 10.5 | 2.65                      |                             | 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:<br>PSA.1S.304.ZLLZ          | PSA.1S.30..ZLLR34 | ○ |
| FFA.1S.736.RN      | R         | 36 |        | 3.60                          | 4.40 | 11.2 | 3.55                      |                             | 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.302.ZLLR03

- in stock  
(delivery time depends of stock)
- order in production

Part number example:  
PSA.0S.302.ZLLR03



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

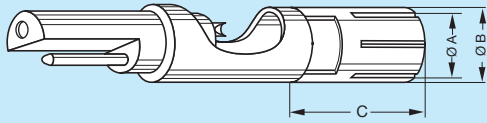
- auf Lager  
(Lieferzeit je nach Lagerbestand)
- Auftragsfertigung im Werk

Bestellbeispiel:  
PSA.0S.302.ZLLQ26

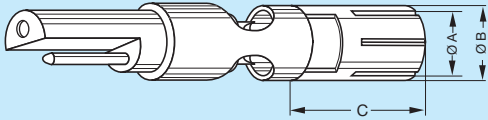
- in stock  
(delivery time depends of stock)
- order in production

Part number example:  
PSA.0S.302.ZLLQ26





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



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

- auf Lager  
(Lieferzeit je nach Lagerbestand)
- Auftragsfertigung im Werk

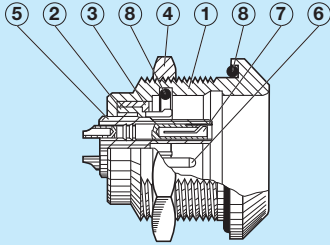
Bestellbeispiel:  
 PSA.0S.302.ZLLY48  
 PSA.0S.302.ZLLL48

- in stock  
(delivery time depends of stock)
- order in production

Part number example:  
 PSA.0S.302.ZLLY48  
 PSA.0S.302.ZLLL48

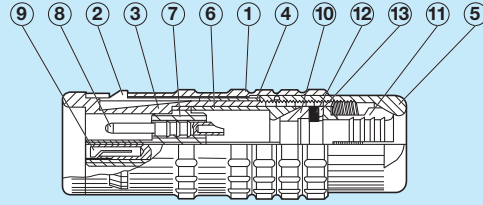
**Konstruktions-Information**  
**E Serie wasserdicht**

**Constructions information**  
**E Series watertight**



**Fixed socket**

- ① Outer shell
- ② Earthing crown
- ③ Retaining ring
- ④ Hexagonal nut
- ⑤ Insulator
- ⑥ Male contact
- ⑦ Female contact
- ⑧ O-ring



**Straight plug**

- ① Outer shell
- ② Latch sleeve
- ③ Inner shell
- ④ Retaining ring
- ⑤ Collet nut
- ⑥ Split insert carrier
- ⑦ Insulator
- ⑧ Male contact
- ⑨ Female contact
- ⑩ Earthing cone
- ⑪ Collet
- ⑫ Gasket
- ⑬ Washer

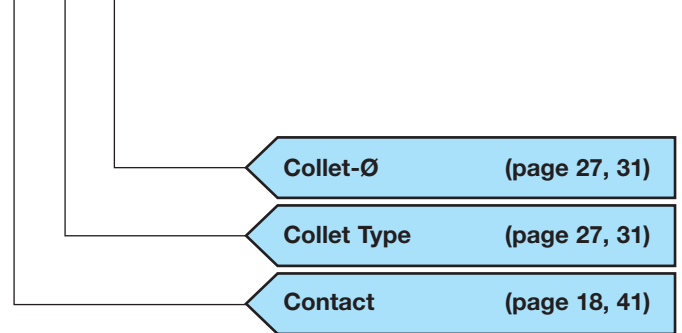
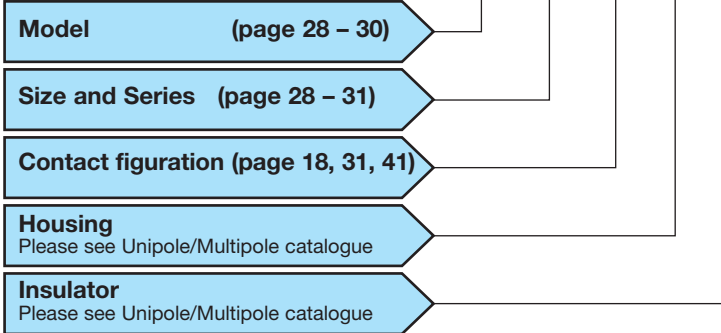
**Bestellbeispiele**

**Part number example**

**Stecker, gerade, wasserdicht**

**Straight plug, watertight**

FFA 1E 302 C L A C 35



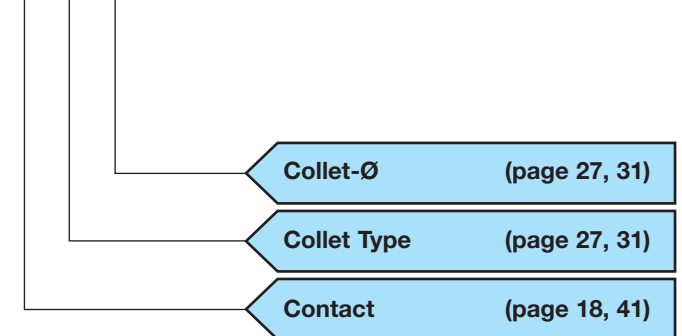
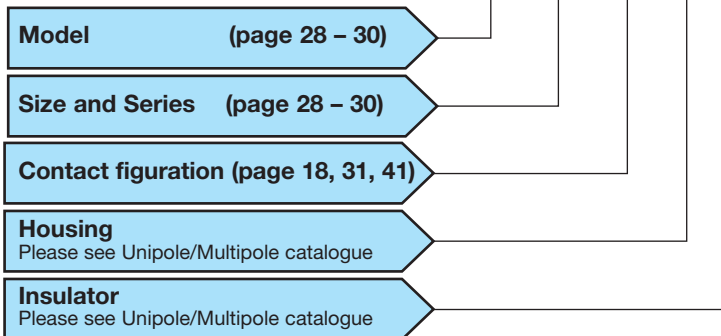
Stecker, gerade, Größe 1, E Serie, 2-polig, Außenkörper aus Messing verchromt, Isolations- teil aus PEEK, männlicher und weiblicher Löt- kontakt, Spannzange für geschirmtes Kabel mit einem Durchmesser von 3,2 mm.

Straight plug, size 1, E Series, 2 contacts, chromed brass shell, PEEK insulator, male and female solder contact, brazing collet for insulated cable having a diameter of 3.2 mm.

**Kabelkupplung, wasserdicht**

**Free socket, watertight**

PCA OE 302 C L L R 12



Kabelkupplung, Größe 0, S Serie, 2-polig, Außenkörper aus Messing verchromt, Isolations- teil aus PEEK, männlicher und weiblicher Löt- kontakt und TH-Spannzange Typ R12.

Free socket, size 0, S Series, 2 contacts, chromed brass shell, PEEK insulator, male and female solder contact and TH collet type R12.

E Series – Size 0/1/2

E Serie – Größe 0/1/2

| Reference |    | C = AG        |      |               |              |      | L = NG                   |              | K = Adapter to the next size |                                 |
|-----------|----|---------------|------|---------------|--------------|------|--------------------------|--------------|------------------------------|---------------------------------|
|           |    | Ø Collet (mm) |      | Ø Gasket (mm) | Ø Cable (mm) |      | Part number collet<br>1) | Re-<br>marks | Part number<br>adapter<br>2) | Part number<br>Collet nut<br>2) |
| Model     | Ø  | ØA            | ØB   |               | max.         | min. |                          |              |                              |                                 |
| C         | 10 | 1,6           | –    | 1,0           | 1,2          | 1,0  | FFA.0E.710.CNS           | ○            |                              | FFA.00.130.LC                   |
| C         | 15 | 1,6           | –    | 1,5           | 1,5          | 1,3  | FFA.0E.715.CNS           | ●            |                              | FFA.00.130.LC                   |
| C         | 20 | 2,1           | –    | 2,0           | 2,0          | 1,6  | FFA.0E.720.CNS           | ●            |                              | FFA.00.130.LC                   |
| C         | 25 | 3,1           | –    | 2,5           | 2,5          | 2,1  | FFA.0E.725.CNS           | ●            |                              | FFA.00.130.LC                   |
| C         | 30 | 3,1           | –    | 3,0           | 3,0          | 2,6  | FFA.0E.730.CNS           | ●            |                              | FFA.00.130.LC                   |
| C         | 35 | 4,2           | 4,2  | 3,5           | 3,5          | 3,1  | FFA.0E.735.CNS           | ●            |                              | FFA.00.130.LC                   |
| C         | 40 | 4,2           | 4,2  | 4,0           | 4,0          | 3,6  | FFA.0E.740.CNS           | ●            |                              | FFA.00.130.LC                   |
| C         | 45 | 4,5           | 4,5  | 4,5           | 4,5          | 4,1  | FFA.0E.745.CNS           | ●            |                              | FFA.00.130.LC                   |
| C         | 50 | 5,0           | 5,0  | 4,6           | 5,0          | 4,6  | FFA.0E.750.CNS           | ●            |                              | FFA.00.130.LC                   |
| C         | 15 | 1,6           | –    | 1,5           | 1,5          | 1,0  | FFA.1E.715.CNS           | ●            |                              | FFA.1E.130.LC                   |
| C         | 20 | 2,2           | –    | 2,0           | 2,0          | 1,6  | FFA.1E.720.CNS           | ○            |                              | FFA.1E.130.LC                   |
| C         | 25 | 3,2           | –    | 2,5           | 2,5          | 2,1  | FFA.1E.725.CNS           | ●            |                              | FFA.1E.130.LC                   |
| C         | 30 | 3,2           | –    | 3,0           | 3,0          | 2,6  | FFA.1E.730.CNS           | ●            |                              | FFA.1E.130.LC                   |
| C         | 35 | 4,2           | –    | 3,5           | 3,5          | 3,1  | FFA.1E.735.CNS           | ●            |                              | FFA.1E.130.LC                   |
| C         | 40 | 4,2           | –    | 4,0           | 4,0          | 3,6  | FFA.1E.740.CNS           | ●            |                              | FFA.1E.130.LC                   |
| C         | 45 | 5,2           | –    | 4,5           | 4,5          | 4,1  | FFA.1E.745.CNS           | ●            |                              | FFA.1E.130.LC                   |
| C         | 50 | 5,2           | –    | 5,0           | 5,0          | 4,6  | FFA.1E.750.CNS           | ●            |                              | FFA.1E.130.LC                   |
| C         | 55 | 6,2           | 6,2  | 5,5           | 5,5          | 5,1  | FFA.1E.755.CNS           | ●            |                              | FFA.1E.130.LC                   |
| C         | 60 | 6,2           | 6,2  | 6,0           | 6,0          | 5,6  | FFA.1E.760.CNS           | ●            |                              | FFA.1E.130.LC                   |
| C         | 65 | 7,2           | 6,7  | 6,5           | 6,7          | 6,1  | FFA.1E.765.CNS           | ●            |                              | FFA.1E.130.LC                   |
| K         | 70 | 7,2           | –    | 7,0           | 7,0          | 6,6  | FFA.2E.770.CNS           | ●            | FFA.1E.137.LCN               | FFA.2E.130.LC                   |
| K         | 75 | 8,2           | 8,2  | 7,5           | 7,5          | 7,1  | FFA.2E.775.CNS           | ●            | FFA.1E.137.LCN               | FFA.2E.130.LC                   |
| K         | 80 | 8,2           | 8,2  | 8,0           | 8,0          | 7,6  | FFA.2E.780.CNS           | ●            | FFA.1E.137.LCN               | FFA.2E.130.LC                   |
| K         | 85 | 9,2           | 8,6  | 8,5           | 8,5          | 8,1  | FFA.2E.785.CNS           | ●            | FFA.1E.137.LCN               | FFA.2E.130.LC                   |
| C         | 15 | 2,2           | –    | 1,5           | 1,7          | 1,5  | FFA.2E.715.CNS           | ○            |                              | FFA.2E.130.LC                   |
| C         | 20 | 2,2           | –    | 2,0           | 2,0          | 1,8  | FFA.2E.720.CNS           | ○            |                              | FFA.2E.130.LC                   |
| C         | 25 | 3,2           | –    | 2,5           | 2,5          | 2,1  | FFA.2E.725.CNS           | ●            |                              | FFA.2E.130.LC                   |
| C         | 30 | 3,2           | –    | 3,0           | 3,0          | 2,6  | FFA.2E.730.CNS           | ●            |                              | FFA.2E.130.LC                   |
| C         | 35 | 4,2           | –    | 3,5           | 3,5          | 3,1  | FFA.2E.735.CNS           | ●            |                              | FFA.2E.130.LC                   |
| C         | 40 | 4,2           | –    | 4,0           | 4,0          | 3,6  | FFA.2E.740.CNS           | ●            |                              | FFA.2E.130.LC                   |
| C         | 45 | 5,2           | –    | 4,5           | 4,5          | 4,1  | FFA.2E.745.CNS           | ●            |                              | FFA.2E.130.LC                   |
| C         | 50 | 5,2           | –    | 5,0           | 5,0          | 4,6  | FFA.2E.750.CNS           | ●            |                              | FFA.2E.130.LC                   |
| C         | 55 | 6,2           | –    | 5,5           | 5,5          | 5,1  | FFA.2E.755.CNS           | ●            |                              | FFA.2E.130.LC                   |
| C         | 60 | 6,2           | –    | 6,0           | 6,0          | 5,6  | FFA.2E.760.CNS           | ●            |                              | FFA.2E.130.LC                   |
| C         | 65 | 7,2           | –    | 6,5           | 6,5          | 6,1  | FFA.2E.765.CNS           | ●            |                              | FFA.2E.130.LC                   |
| C         | 70 | 7,2           | –    | 7,0           | 7,0          | 6,6  | FFA.2E.770.CNS           | ●            |                              | FFA.2E.130.LC                   |
| C         | 75 | 8,2           | 8,2  | 7,5           | 7,5          | 7,1  | FFA.2E.775.CNS           | ●            |                              | FFA.2E.130.LC                   |
| C         | 80 | 8,2           | 8,2  | 8,0           | 8,0          | 7,6  | FFA.2E.780.CNS           | ●            |                              | FFA.2E.130.LC                   |
| C         | 85 | 9,2           | 8,6  | 8,5           | 8,5          | 8,1  | FFA.2E.785.CNS           | ●            |                              | FFA.2E.130.LC                   |
| K         | 90 | 9,2           | –    | 9,0           | 9,0          | 8,6  | FFA.3E.790.CNS           | ●            | FFA.2E.137.LCN               | FFA.3E.130.LC                   |
| K         | 95 | 10,2          | 10,2 | 9,5           | 9,5          | 9,1  | FFA.3E.795.CNS           | ●            | FFA.2E.137.LCN               | FFA.3E.130.LC                   |
| K         | 10 | 10,2          | 10,2 | 10,0          | 10,0         | 9,6  | FFA.3E.710.CNS           | ●            | FFA.2E.137.LCN               | FFA.3E.130.LC                   |
| K         | 11 | 11,2          | 10,6 | 11,0          | 11,0         | 10,1 | FFA.3E.711.CNS           | ●            | FFA.2E.137.LCN               | FFA.3E.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).

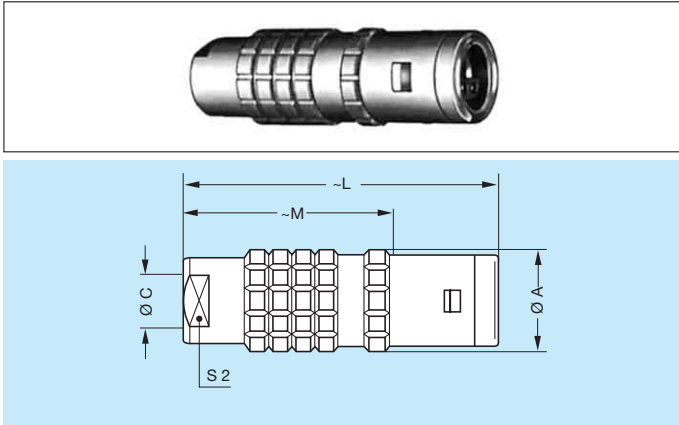
● lieferbar ○ auf Anfrage

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).

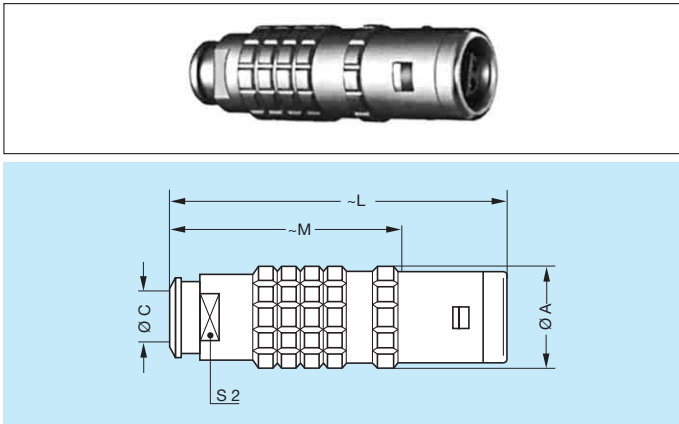
● in stock ○ on request

**E Series** watertight  
**E Serie** wasserdicht



**Watertight, straight plug**  
**Wasserdichter Stecker, gerade**

| Reference |        | Dimensions (mm) |     |    |      |      |
|-----------|--------|-----------------|-----|----|------|------|
| Model     | Series | A               | C   | L  | M    | S2   |
| FFA       | 0E     | 11              | 6.2 | 34 | 23.0 | 7.9  |
| FFA       | 1E     | 13              | 7.1 | 42 | 28.0 | 8.9  |
| FFA       | 2E     | 16              | 9.2 | 52 | 36.0 | 11.9 |



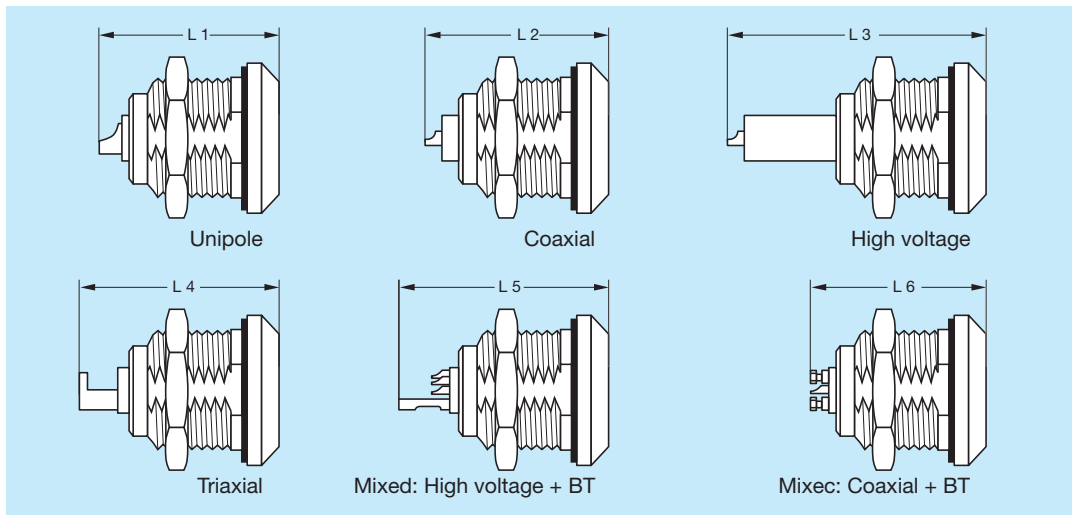
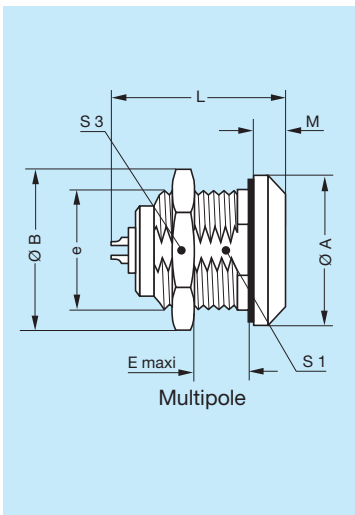
**Watertight plug with cable collet and nut for fitting a strain relief**  
**Wasserdichter Stecker mit Knickschutzschraube**

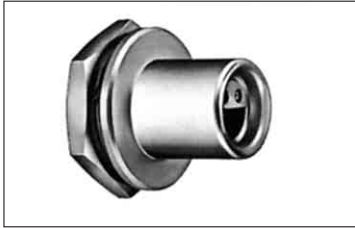
| Reference |        | Dimensions (mm) |     |    |    |      |
|-----------|--------|-----------------|-----|----|----|------|
| Model     | Series | A               | C   | L  | M  | S2   |
| FFA       | 0E     | 11              | 5.2 | 37 | 26 | 7.0  |
| FFA       | 1E     | 13              | 7.1 | 45 | 31 | 9.0  |
| FFA       | 2E     | 16              | 8.7 | 49 | 33 | 11.9 |



**Watertight socket**      **Wasserdichte Einbauapparatdose**

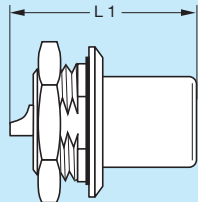
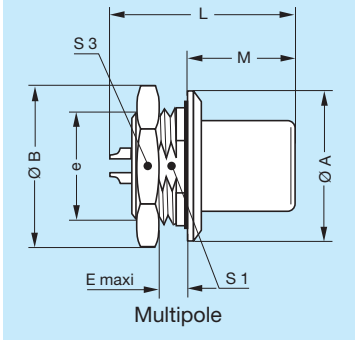
| Reference |        | Dimensions (mm) |      |       |     |      |      |      |      |      |    |    |     |      |    |
|-----------|--------|-----------------|------|-------|-----|------|------|------|------|------|----|----|-----|------|----|
| Model     | Series | A               | B    | e     | E   | L    | L1   | L2   | L3   | L4   | L5 | L6 | M   | S1   | S3 |
| ERA       | 0E     | 18              | 19.5 | M14x1 | 7.0 | 19.0 | 20.0 | 19.0 | 26.0 | 21.4 | -  | -  | 4.0 | 12.5 | 17 |
| ERA       | 1E     | 20              | 21.5 | M16x1 | 9.0 | 26.0 | 25.4 | 20.4 | 36.0 | 27.2 | -  | -  | 4.5 | 14.5 | 19 |
| ERA       | 2E     | 25              | 27.5 | M20x1 | 9.0 | 29.0 | 30.0 | 28.8 | 45.8 | 30.3 | -  | -  | 5.0 | 18.5 | 24 |



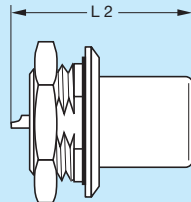


**Watertight plug non-latching**  
**Wasserdichte, positive Apparatedose (Einbaustecker)**

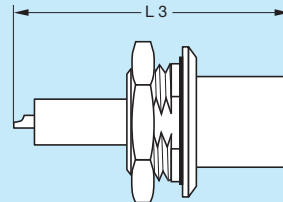
| Reference |        | Dimensions (mm) |      |       |   |    |    |    |    |    |    |      |    |
|-----------|--------|-----------------|------|-------|---|----|----|----|----|----|----|------|----|
| Model     | Series | A               | B    | e     | E | L  | L1 | L2 | L3 | L4 | M  | S1   | S3 |
| FAA       | 2E     | 25              | 27.5 | M20x1 | 4 | 34 | 29 | 25 | 53 | 37 | 18 | 18.5 | 24 |



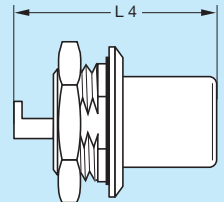
Unipole



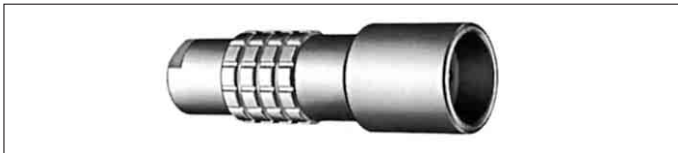
Coaxial



High voltage

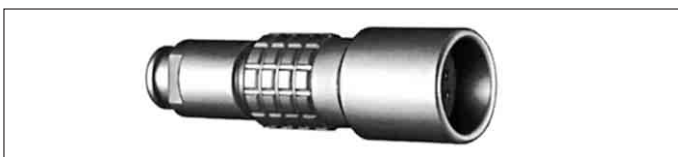
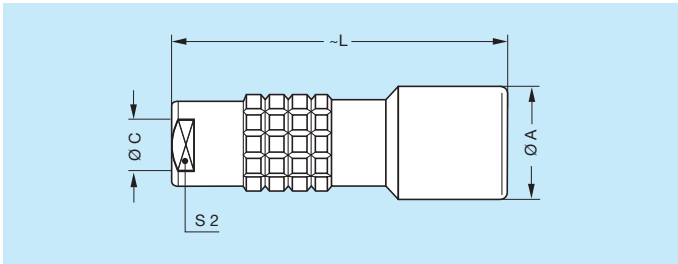


Triaxial



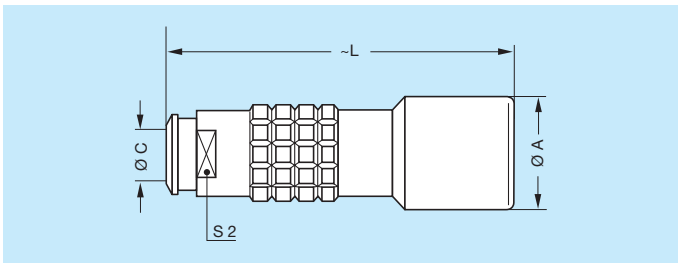
**Watertight free socket**  
**Wasserdichte Kabelkupplung**

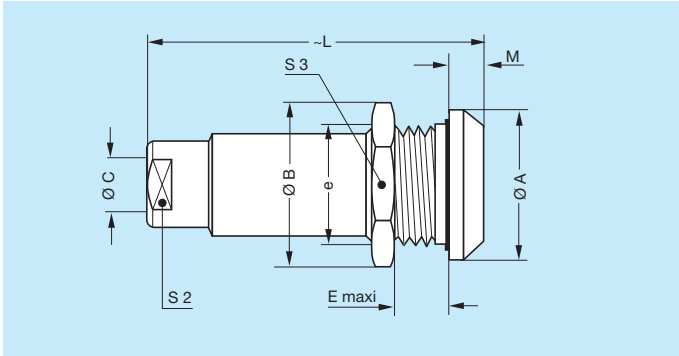
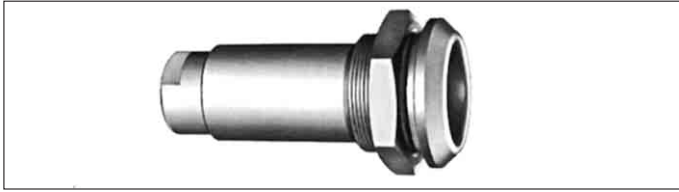
| Reference |        | Dimensions (mm) |     |      |      |
|-----------|--------|-----------------|-----|------|------|
| Model     | Series | A               | C   | L    | S2   |
| PCA       | 0E     | 13              | 6.2 | 34.0 | 7.9  |
| PCA       | 1E     | 15              | 7.1 | 45.0 | 8.9  |
| PCA       | 2E     | 19              | 9.2 | 54.0 | 11.9 |



**Watertight socket with cable collet and nut**  
**for fitting a strain relief**  
**Wasserdichte Kabelkupplung mit**  
**Knickschutzspannschraube**

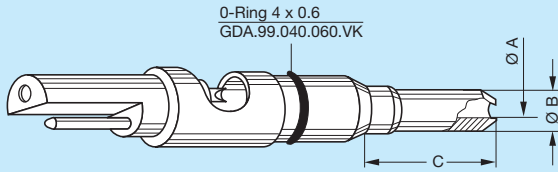
| Reference |        | Dimensions (mm) |     |      |      |
|-----------|--------|-----------------|-----|------|------|
| Model     | Series | A               | C   | L    | S2   |
| PCA       | 0E     | 13              | 6.2 | 37.0 | 7.0  |
| PCA       | 1E     | 15              | 7.1 | 48.0 | 9.0  |
| PCA       | 2E     | 19              | 9.2 | 57.0 | 11.9 |



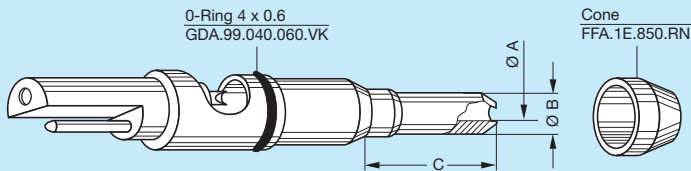


**Watertight fixed socket with cable collet**  
**Wasserdichte Einbauapparatdose mit**  
**Zugentlastung**

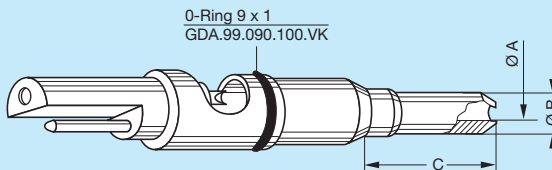
| Reference |        | Dimensions (mm) |      |     |       |     |      |     |      |    |
|-----------|--------|-----------------|------|-----|-------|-----|------|-----|------|----|
| Model     | Series | A               | B    | C   | e     | E   | L    | M   | S2   | S3 |
| PSA       | 0E     | 18              | 19.5 | 6.2 | M14x1 | 7.0 | 34.0 | 4.0 | 7.9  | 17 |
| PSA       | 1E     | 20              | 21.5 | 7.1 | M16x1 | 9.0 | 45.0 | 4.5 | 8.9  | 19 |
| PSA       | 2E     | 25              | 27.5 | 9.2 | M20x1 | 9.0 | 54.0 | 5.0 | 11.9 | 24 |



| 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 |
|--------------------|-----------|----|--------|-------------------------------|------|------|---------------------------|-----------------------------|--------------------------------------|------------------|
|                    | Typ       | Ø  |        | ØA                            | ØB   | C    |                           |                             |                                      |                  |
| FFA.0E.702.RNS     | R         | 02 | 0E     | 0.25                          | 3.20 | 12.5 | 0.20                      | 2-polig:<br>PSA.0S.302.ZLLZ | PSA.0E.30.ZLLR02                     | ●                |
| FFA.0E.705.RNS     | R         | 05 |        | 0.50                          | 3.20 | 12.5 | 0.45                      |                             | PSA.0E.30.ZLLR05                     | ●                |
| FFA.0E.710.RNS     | R         | 10 |        | 1.00                          | 3.20 | 12.5 | 0.95                      | 3-polig:<br>PSA.0S.303.ZLLZ | PSA.0E.30.ZLLR10                     | ●                |
| FFA.0E.711.RNS     | R         | 11 |        | 1.10                          | 3.20 | 12.5 | 1.05                      |                             | PSA.0E.30.ZLLR11                     | ●                |
| FFA.0E.712.RNS     | R         | 12 |        | 1.20                          | 2.40 | 12.5 | 1.15                      | 4-polig:<br>PSA.0S.304.ZLLZ | PSA.0E.30.ZLLR12                     | ●                |
| FFA.0E.716.RNS     | R         | 16 |        | 1.60                          | 3.20 | 12.5 | 1.55                      |                             | PSA.0E.30.ZLLR16                     | ●                |
| FFA.0E.720.RNS     | R         | 20 |        | 2.00                          | 3.20 | 12.5 | 1.95                      | PSA.0E.30.ZLLR20            | ●                                    |                  |
| FFA.0E.726.RNS     | R         | 26 |        | 2.60                          | 3.45 | 12.5 | 2.55                      | PSA.0E.30.ZLLR26            | ●                                    |                  |



| 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 |
|--------------------|-----------|----|--------|-------------------------------|-----|------|---------------------------|-----------------------------|--------------------------------------|------------------|
|                    | Typ       | Ø  |        | ØA                            | ØB  | C    |                           |                             |                                      |                  |
| FFA.1E.716.RNS     | R         | 16 | 1E     | 0.6                           | 3.2 | 10.2 | 1.55                      | 2-polig:<br>PSA.1S.302.ZLLZ | PSA.1E.30.ZLLR16                     | ●                |
| FFA.1E.720.RNS     | R         | 20 |        | 2.0                           | 3.2 | 10.2 | 1.95                      |                             | PSA.1E.30.ZLLR20                     | ●                |
| FFA.1E.731.RNS     | R         | 31 |        | 3.1                           | 4.5 | 11.3 | 3.05                      | 3-polig:<br>PSA.1S.303.ZLLZ | PSA.1E.30.ZLLR31                     | ●                |
| FFA.1E.733.RNS     | R         | 33 |        | 3.3                           | 4.4 | 11.2 | 3.25                      |                             | PSA.1E.30.ZLLR33                     | ●                |
| FFA.1E.736.RNS     | R         | 36 |        | 3.6                           | 4.4 | 11.3 | 3.55                      | 4-polig:<br>PSA.1S.304.ZLLZ | PSA.1E.30.ZLLR36                     | ●                |
| FFA.1E.746.RNS     | R         | 46 |        | 4.6                           | 5.8 | 12.4 | 4.55                      |                             | PSA.1E.30.ZLLR46                     | ●                |



| 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 |
|--------------------|-----------|----|--------|-------------------------------|-----|------|---------------------------|---|--------------------------------------|------------------|
|                    | Typ       | Ø  |        | ØA                            | ØB  | C    |                           |   |                                      |                  |
| FFA.2E.746.RNS     | R         | 46 | 2E     | 4.6                           | 5.8 | 12.5 | 4.55                      | 2-polig:<br>PSA.2S.302.ZLLZ<br>3-polig:<br>PSA.2S.303.ZLLZ<br>4-polig:<br>PSA.2S.304.ZLLZ | PSA.2E.30.ZLLR46                     | ●                |

- auf Lager (Lieferzeit je nach Lagerbestand)
- Auftragsfertigung im Werk

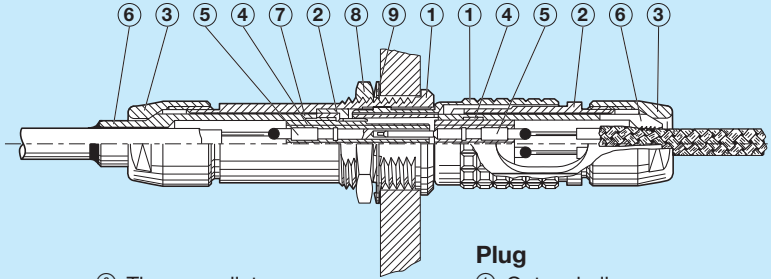
Bestellbeispiel:  
PSA.0E.302.ZLLR02  
PSA.1E.302.ZLLR16  
PSA.2E.302.ZLLR46

- in stock (delivery time depends of stock)
- order in production

Part number example:  
PSA.0E.302.ZLLR02  
PSA.1E.302.ZLLR16  
PSA.2E.302.ZLLR46

Konstruktions-Information  
B Serie

Constructions information  
B Series



**Fixed socket**

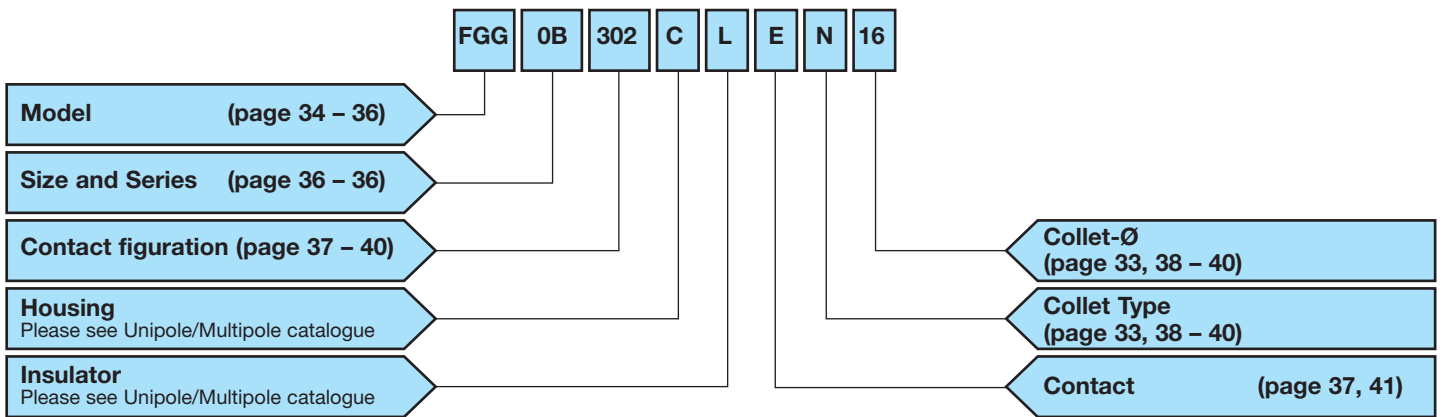
- ① Outer shell
- ② Earthing crown
- ③ Collet nut
- ④ Insulator
- ⑤ Female contact
- ⑥ Thermo collet
- ⑦ Retaining ring
- ⑧ Hexagonal nut
- ⑨ Locking washer

**Plug**

- ① Outer shell
- ② Latch sleeve
- ③ Collet nut
- ④ Insulator
- ⑤ Male contact
- ⑥ Collet

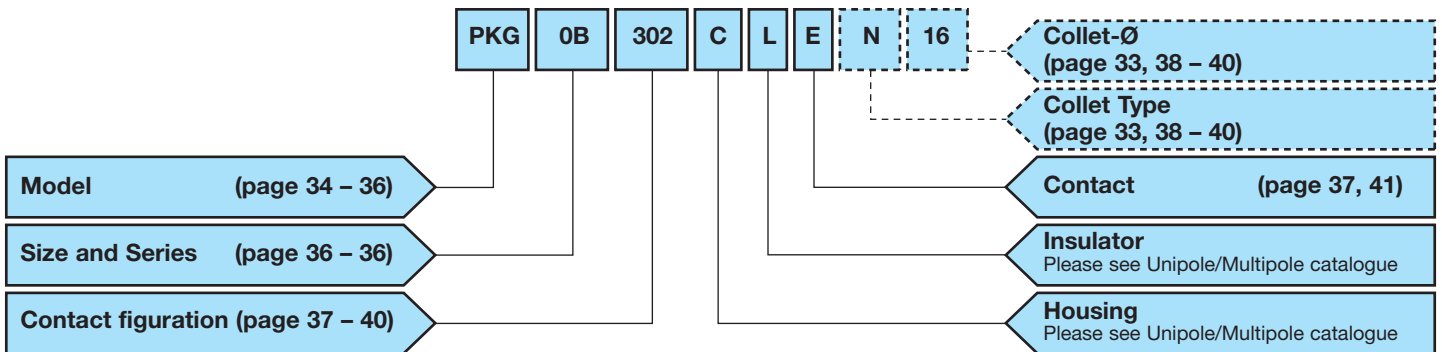
Bestellbeispiele

Part number example



Stecker, gerade, mit Führungsnocke (G), Größe 0, B Serie, 2 Kontakte, Außenkörper aus Messing verchromt, Isolationsteil aus PEEK, Thermokontakt Typ E, Thermospannzange Typ N für geschirmtes Kabel mit einem max. Durchmesser von 1,55 mm.

Straight plug with key (G) and cable collet, size 0, B Series, 2 contacts, chrome plated brass housing, PEEK insulator, thermocouple type E, brazing collet type N for insulated cable with a max. diameter of 1,55 mm.






Einbauapparatdose mit Führungsnut (G) und Zugentlastung, Größe 0, B Serie, mehrpolig (2 Kontakte), Außenkörper aus Messing verchromt, Massekrone vernickelt, Isolationsteil aus PEEK, Thermokontakt Typ E, Thermospannzange Typ N für Thermoelemente mit einem Durchmesser von 1,6 mm.

Receptacle with key (G) and cable collet, size 0, B Series, 2 contacts, chrome plated brass housing, nickel earth crown, PEEK insulator, thermocouple type E, brazing collet type N for thermocouples having a diameter of 1,6 mm.



**Collets – Type and Diameter**  
**Spannzangen – Typ und Durchmesser**

| Reference |    |  |     |  |      |  |               | Remarks       |               |               |
|-----------|----|---|-----|---|------|---|---------------|---------------|---------------|---------------|
|           |    |   |     |   |      |   |               |               | Series        | Ø Collet (mm) |
| Model     | Ø  |   | ØA  | ØB  | max. | min.  |               |               |               |               |
| D         | 21 | 0B  | 2,1 |   | 2,0  | 1,5   | FGG.0B.721.DN |               |               |               |
| D         | 31 |   | 3,1 |   | 3,0  | 2,1   | FGG.0B.731.DN |               |               |               |
| D         | 42 |   | 4,2 |   | 4,0  | 3,1   | FGG.0B.742.DN |               |               |               |
| D         | 52 |   | 5,2 | 4,7   | 5,0  | 4,1   | FGG.0B.752.DN |               |               |               |
| D         | 56 |   | 5,6 | 4,7   | 5,5  | 5,1   | FGG.0B.756.DN |               |               | 1)            |
| M         | 27 | 1B  | 2,7 |   | 2,5  | 2,0   | FFA.00.727.CN | FGG.1B.138.LN | FGG.1B.158.LN |               |
| M         | 31 |   | 3,1 |   | 3,0  | 2,1   | FFA.00.731.CN | FGG.1B.138.LN | FGG.1B.158.LN |               |
| D         | 42 |   | 4,2 |   | 4,0  | 3,1   | FGG.1B.742.DN |               |               |               |
| D         | 52 |   | 5,2 |   | 5,0  | 4,1   | FGG.1B.752.DN |               |               |               |
| D         | 62 |   | 6,2 |   | 6,0  | 5,1   | FGG.1B.762.DN |               |               |               |
| D         | 72 |   | 7,2 | 6,7   | 7,0  | 6,1   | FGG.1B.772.DN |               |               |               |
| D         | 76 |   | 7,6 | 6,7   | 7,5  | 7,1   | FGG.1B.776.DN |               |               | 1)            |
| M         | 21 | 2B  | 2,1 |   | 2,0  | 1,5   | FGG.0B.721.DN | FGG.2B.138.LN | FGG.2B.158.LN |               |
| M         | 31 |   | 3,1 |   | 3,0  | 2,1   | FGG.0B.731.DN | FGG.2B.138.LN | FGG.2B.158.LN |               |
| M         | 42 |   | 4,2 |   | 4,0  | 3,1   | FGG.2B.742.DN | FGG.2B.138.LN | FGG.2B.158.LN |               |
| D         | 52 |   | 5,2 |   | 5,0  | 4,1   | FGG.2B.752.DN |               |               |               |
| D         | 62 |   | 6,2 |   | 6,0  | 5,1   | FGG.2B.762.DN |               |               |               |
| D         | 72 |   | 7,2 |   | 7,0  | 6,1   | FGG.2B.772.DN |               |               |               |
| D         | 82 |   | 8,2 |   | 8,0  | 7,1   | FGG.2B.782.DN |               |               |               |
| D         | 92 |   | 9,2 | 8,6   | 9,0  | 8,1   | FQG.2B.792.DN |               |               |               |
| D         | 99 |   | 9,9 | 8,6   | 9,7  | 9,1   | FGG.2B.799.DN |               |               | 1)            |

<sup>1)</sup> Diese Spannzangen können nicht in Bauformen mit Spannschrauben für Knickschutztüllen verwendet werden. Bei den anderen Steckern mit Kabelspannzangen muß die Bestellnummer der zugehörigen Spannschraube, FFM...130.LC, ebenfalls in der Bestellung aufgeführt werden.

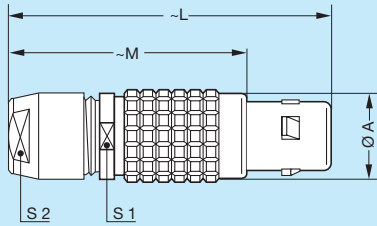
<sup>1)</sup> These collets cannot be used for connector models with nut for fitting a bend relief. For any other plug with cable collets, please indicate the part number of the corresponding collet nut, FFM...130.LC in your order.

**Bestellinformationen und Bauformen zur K Serie siehe Katalog Unipole/Multipole Connectors**

**Order information and designs about the K Series please see catalogue Unipole/Multi-pole connectors**

**B Series with alignment key and polarized keying system**

**B Serie mit Codierungssystem**

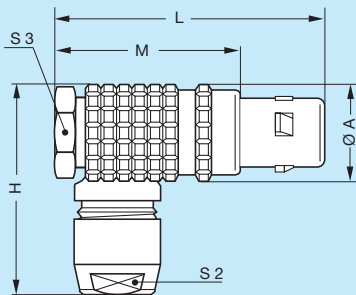


**Straight plug with key G or keys (code A...M and R), cable collet**

**Gerader Stecker mit Führungsnocke (G) oder Verschlüsselung (Code A...M und R), Zugentlastung**

| 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   | 26   | 8   | 7  |
| FGG       | 1B     | 12.0            | 43   | 32   | 10  | 9  |
| FGG       | 2B     | 15.0            | 49   | 37   | 13  | 12 |

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

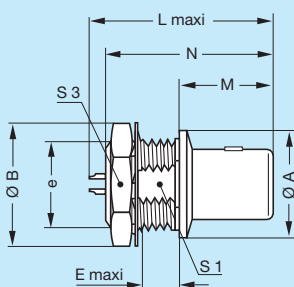


**Elbow plug with key G or keys (code A...M and R), cable collet**

**Winkelstecker mit Führungsnocke (G) oder Verschlüsselung (Code A...M und R), Zugentlastung**

| Reference |        | Dimensions (mm) |    |      |      |    |    |
|-----------|--------|-----------------|----|------|------|----|----|
| Model     | Series | A               | H  | L    | M    | S2 | S3 |
| FHG       | 00     | 7.7             | 18 | 24.5 | 16.5 | 5  | 7  |
| FHG       | 0B     | 11.0            | 23 | 30.0 | 20.0 | 7  | 9  |
| FHG       | 1B     | 13.5            | 28 | 36.0 | 25.0 | 9  | 11 |
| FHG       | 2B     | 16.5            | 34 | 41.5 | 29.5 | 12 | 14 |

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

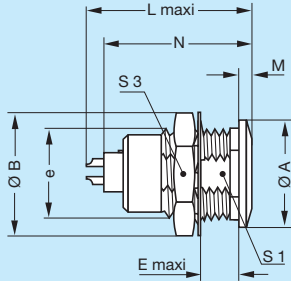


**Straight plug, non-latching, nut fixing, with key (code A...M and R)**

**Gerader Stecker ohne Verriegelung, mit Führungsnocke (Code A...M und R), Befestigung mit Mutter**

| Reference |        | Dimensions (mm) |      |        |     |      |      |      |      |    |
|-----------|--------|-----------------|------|--------|-----|------|------|------|------|----|
| Model     | Series | A               | B    | e      | E   | L    | M    | N    | S1   | S3 |
| FAG       | 00     | 8               | 10.3 | M7x0.5 | 2.0 | 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

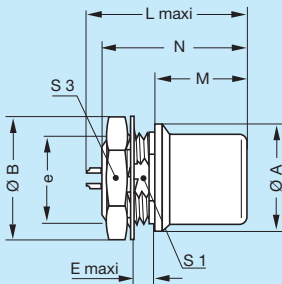


**Fixed socket with key G or keys (code A...M and R)**

**Apparatedose mit Führungsnocke (G) oder Verschlüsselung (Code A...M und R), Befestigung mit Mutter**

| 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 | 12.0 | 6.3  | 9  |
| EGG       | 0B     | 10              | 12.5 | M9x0.6 | 7.0 | 19.5 | 1.2 | 17.5 | 8.2  | 11 |
| EGG       | 1B     | 14              | 16.0 | M12x 1 | 7.5 | 21.7 | 1.5 | 19.5 | 10.5 | 14 |
| EGG       | 2B     | 18              | 20.0 | M15x 1 | 8.5 | 25.0 | 1.8 | 21.5 | 13.5 | 17 |

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

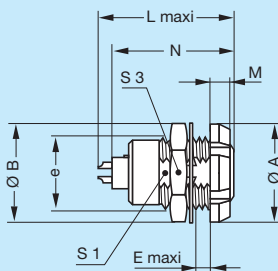


**Fixed socket with key G or keys (code A...M and R), with visible shell**

**Apparatedose mit Führungsnocke (G) oder Verschlüsselung (Code A...M und R), Befestigung mit Mutter, Körper vorstehend**

| Reference |        | Dimensions (mm) |      |        |     |      |      |      |      |    |
|-----------|--------|-----------------|------|--------|-----|------|------|------|------|----|
| Model     | Series | A               | B    | e      | E   | L    | M    | N    | S1   | S3 |
| EHG       | 00     | 8.8             | 10.3 | M7x0.5 | 2.0 | 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              | 16.0 | 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

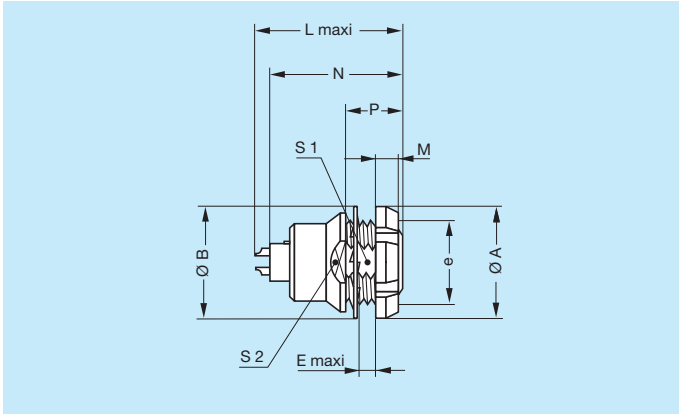


**Fixed socket with two fixing nuts, with key G or keys (code A...M and R), (back panel mounting)**

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

| Reference |        | Dimensions (mm) |      |        |     |      |     |      |      |    |
|-----------|--------|-----------------|------|--------|-----|------|-----|------|------|----|
| Model     | Series | A               | B    | e      | E   | L    | M   | N    | S1   | S3 |
| ECG       | 00     | 10              | 9.5  | M7x0.5 | 4.3 | 13.7 | 2.5 | 13.7 | 6.3  | 9  |
| EGG       | 0B     | 12              | 12.5 | M9x0.6 | 5.5 | 19.5 | 2.5 | 17.5 | 8.2  | 11 |
| ECG       | 1B     | 16              | 16   | M12x 1 | 6.0 | 21.7 | 3.2 | 19.5 | 10.5 | 14 |
| ECG       | 2B     | 20              | 19.5 | M15x 1 | 6.5 | 25.0 | 3.8 | 21.5 | 13.5 | 17 |

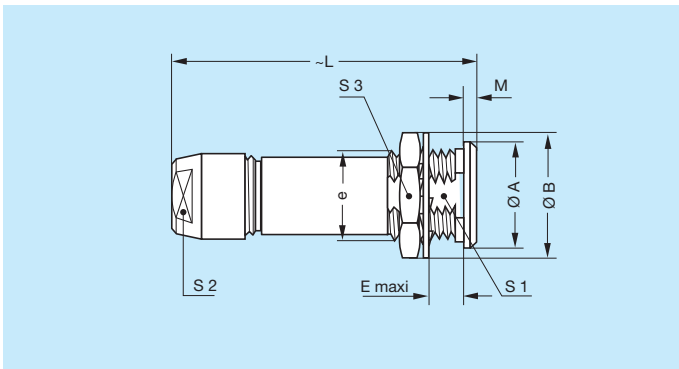
P1 Panel cut out: see Unipole/Multipole catalogue  
Bohrplan der Frontplatte: siehe Unipole/Multipole Katalog



Fixed socket with key G or keys (code A...M and R),  
(back panel mounting)  
Apparatedose mit Führungsnocke (G) oder  
Verschlüsselung (Code A...M und R),  
Befestigung mit Mutter,  
(von der Rückseite der Frontplatte montierbar)

| 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

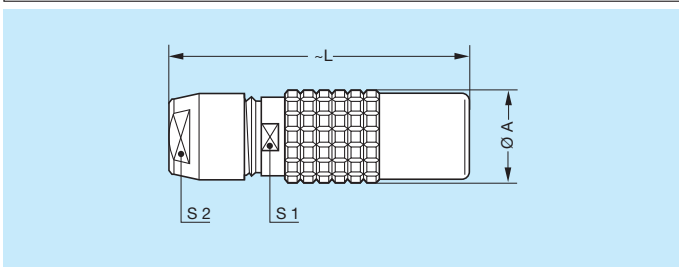


Fixed socket, nut fixing, with key G or keys  
(code A...M and R), cable collet  
Apparatedose, Befestigung mit Mutter,  
mit Führungsnocke (G) oder Verschlüsselung  
(Code A...M und R), Zugentlastung

| Reference |        | Dimensions (mm) |      |        |     |      |     |      |    |    |
|-----------|--------|-----------------|------|--------|-----|------|-----|------|----|----|
| Model     | Series | A               | B    | e      | E   | L    | M   | S1   | S2 | S3 |
| PKG       | 00     | 8               | 10.3 | M7x0.5 | 6.5 | 27.0 | 1.0 | 6.3  | 5  | 9  |
| PKG       | 0B     | 10              | 12.5 | M9x0.6 | 7.0 | 35.5 | 1.2 | 8.2  | 7  | 11 |
| PKG       | 1B     | 14              | 16.0 | M12x 1 | 7.5 | 40.5 | 1.5 | 10.5 | 9  | 14 |
| PKG       | 2B     | 18              | 19.5 | 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



Free socket, with key G or keys (code A...M and R), cable collet  
Kupplung mit Führungsnocke (G)  
oder Verschlüsselung (Code A...M und R),  
Zugentlastung

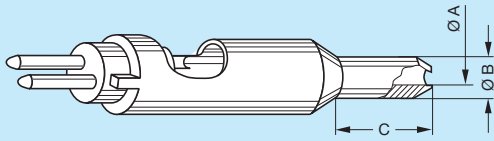
| Reference |        | Dimensions (mm) |    |     |    |
|-----------|--------|-----------------|----|-----|----|
| Model     | Series | A               | L  | S1  | S2 |
| PHG       | 00     | 6.4             | 27 | 5.5 | 5  |
| PHG       | 0B     | 9.5             | 35 | 8   | 7  |
| PHG       | 1B     | 12.5            | 40 | 10  | 9  |
| PHG       | 2B     | 16.5            | 47 | 13  | 12 |

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

|      |     |     | Reference | Series | Number of contacts | Contact-Ø<br>Ø A (mm) | Max. Conductor-Ø | Contact-No.    | Thermo contact-Type |               |               |               |               |             |
|------|-----|-----|-----------|--------|--------------------|-----------------------|------------------|----------------|---------------------|---------------|---------------|---------------|---------------|-------------|
| Size | FGG | EGG |           |        |                    |                       |                  |                | E                   | J             | K             | T             | L             | W           |
| 00   |     |     | 302       | 00     | 2                  | 0.5                   | 0.4              | 1<br>2         | -                   | -             | -             | -             | LP<br>LN      | W<br>W      |
|      |     |     | 303       | 00     | 3                  | 0.5                   | 0.4              | 1<br>2<br>3    | -                   | -             | -             | -             | LP<br>LN<br>L | W<br>W<br>W |
| 0B   |     |     | 302       | 0B     | 2                  | 0.9                   | 0.8              | 1<br>2         | EP<br>EN            | JP<br>JN      | KP<br>KN      | TP<br>TN      | LP<br>LN      | W<br>W      |
|      |     |     | 303       | 0B     | 3                  | 0.9                   | 0.8              | 1<br>2<br>3    | EP<br>EN<br>L       | JP<br>JN<br>L | KP<br>KN<br>L | TP<br>TN<br>L | LP<br>LN<br>L | W<br>W<br>W |
|      |     |     | 902       | 0B     | 4                  | 0.7                   | 0.6              | 1-3<br>2-4     | EP<br>EN            | JP<br>JN      | KP<br>KN      | TP<br>TN      | LP<br>LN      | W<br>W      |
| 1B   |     |     | 302       | 1B     | 2                  | 1.3                   | 1.0              | 1<br>2         | EP<br>EN            | JP<br>JN      | KP<br>KN      | TP<br>TN      | LP<br>LN      | W<br>W      |
|      |     |     | 303       | 1B     | 3                  | 1.3                   | 1.0              | 1<br>2<br>3    | EP<br>EN<br>L       | JP<br>JN<br>L | KP<br>KN<br>L | TP<br>TN<br>L | LP<br>LN<br>L | W<br>W<br>W |
|      |     |     | 902       | 1B     | 4                  | 0.9                   | 0.8              | 1-3<br>2-4     | EP<br>EN            | JP<br>JN      | KP<br>KN      | TP<br>TN      | LP<br>LN      | W<br>W      |
|      |     |     | 903       | 1B     | 6                  | 0.7                   | 0.6              | 1-3-5<br>2-4-6 | EP<br>EN            | JP<br>JN      | KP<br>KN      | TP<br>TN      | LP<br>LN      | W<br>W      |
| 2B   |     |     | 302       | 2B     | 2                  | 2.0                   | 1.8              | 1<br>2         | EP<br>EN            | JP<br>JN      | KP<br>KN      | TP<br>TN      | LP<br>LN      | W<br>W      |
|      |     |     | 303       | 2B     | 3                  | 1.6                   | 1.4              | 1<br>2<br>3    | EP<br>EN<br>L       | JP<br>JN<br>L | KP<br>KN<br>L | TP<br>TN<br>L | LP<br>LN<br>L | W<br>W<br>W |
|      |     |     | 902       | 2B     | 4                  | 1.3                   | 1.0              | 1-3<br>2-4     | EP<br>EN            | JP<br>JN      | KP<br>KN      | TP<br>TN      | LP<br>LN      | W<br>W      |
|      |     |     | 903       | 2B     | 6                  | 1.3                   | 1.0              | 1-3-5<br>2-4-6 | EP<br>EN            | JP<br>JN      | KP<br>KN      | TP<br>TN      | LP<br>LN      | W<br>W      |

**Bestellbeispiel**  
 Isolationsteile: FGG.0B.302.ZLK  
                   EGG.0B.302.ZLK  
 Stecker: FGG.0B.302.CLK  
 Apparatedose: EGG.0B.302.CLK  
 Kupplung: PHG.0B.302.CLK

**Part number example**  
 Insulator: FGG.0B.302.ZLK  
                   EGG.0B.302.ZLK  
 Plug: FGG.0B.302.CLK  
 Fixed socket: EGG.0B.302.CLK  
 Free socket: PHG.0B.302.CLK



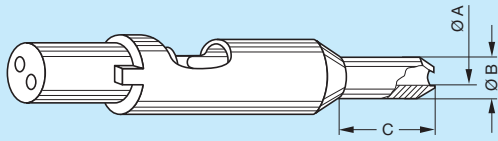
| Part number<br>Collet | Reference |    | Series | Dimensions<br>of the collet (mm) |      |     | Ø Thermo-<br>couple<br>max. (mm) | Part number<br>Insulator   | Part number<br>Collet/Insulator,<br>fitted | Time of<br>delivery |
|-----------------------|-----------|----|--------|----------------------------------|------|-----|----------------------------------|--|--|---------------------|
|                       | Model     | Ø  |        | ØA                               | ØB   | C   |                                  |  |  |                     |
| FGG.0B.706.NN         | N         | 06 | 0B     | 0.6                              | 4.5  | 6.3 | 0.55                             | 2-polig:<br>FGG.0B.302.ZLA<br>3-polig:<br>FGG.0B.303.ZLA<br>4-polig:<br>FGG.0B.304.ZLA | FGG.0B.30.ZLAN06                           | ○                   |
| FGG.0B.712.NN         | N         | 12 |        | 1.2                              | 4.5  | 6.3 | 1.15                             |  | FGG.0B.30.ZLAN12                           | ○                   |
| FGG.0B.716.NN         | N         | 16 |        | 1.6                              | 4.5  | 6.3 | 1.55                             |  | FGG.0B.30.ZLAN16                           | ●                   |
| FGG.0B.721.NN         | N         | 21 |        | 2.1                              | 4.5  | 6.3 | 2.05                             |  | FGG.0B.30.ZLAN21                           | ○                   |
| FGG.0B.726.NN         | N         | 26 |        | 2.6                              | 4.5  | 6.3 | 2.55                             |  | FGG.0B.30.ZLAN26                           | ●                   |
| FGG.0B.730.NN         | N         | 30 |        | 3.0                              | 4.5  | 6.3 | 2.95                             |  | FGG.0B.30.ZLAN30                           | ○                   |
| FGG.0B.733.NN         | N         | 33 |        | 3.3                              | 4.5  | 6.3 | 3.25                             |  | FGG.0B.30.ZLAN33                           | ●                   |
| FGG.0B.749.NN         | N         | 49 |        | 4.9                              | 5.5  | 7.5 | 4.85                             |  | FGG.0B.30.ZLAN49                           | ○                   |
|                       |           |    |        |                                  |      |     |                                  |  |  |                     |
| FGG.1B.721.NN         | N         | 21 | 1B     | 2.1                              | 7.0  | 6.0 | 2.05                             | 2-polig:<br>FGG.1B.302.ZLA<br>3-polig:<br>FGG.1B.303.ZLA<br>4-polig:<br>FGG.1B.304.ZLA | FGG.1B.30.ZLAN21                           | ○                   |
| FGG.1B.726.NN         | N         | 26 |        | 2.6                              | 7.0  | 6.0 | 2.55                             |  | FGG.1B.30.ZLAN26                           | ●                   |
| FGG.1B.733.NN         | N         | 33 |        | 3.3                              | 7.0  | 6.0 | 3.25                             |  | FGG.1B.30.ZLAN33                           | ○                   |
| FGG.1B.749.NN         | N         | 49 |        | 4.9                              | 7.0  | 6.0 | 4.85                             |  | FGG.1B.30.ZLAN49                           | ○                   |
| FGG.1B.766.NN         | N         | 66 |        | 6.6                              | 7.0  | 6.0 | 6.55                             |  | FGG.1B.30.ZLAN66                           | ○                   |
|                       |           |    |        |                                  |      |     |                                  |  |  |                     |
| FGG.2B.733.NN         | N         | 33 | 2B     | 3.3                              | 6.5  | 6.0 | 3.25                             | 2-polig:<br>FGG.2B.302.ZLA<br>3-polig:<br>FGG.2B.303.ZLA<br>4-polig:<br>FGG.2B.304.ZLA | FGG.2B.30.ZLAN33                           | ○                   |
| FGG.2B.749.NN         | N         | 49 |        | 4.9                              | 6.5  | 6.0 | 4.85                             |  | FGG.2B.30.ZLAN49                           | ●                   |
| FGG.2B.766.NN         | N         | 66 |        | 6.6                              | 9.0  | 8.5 | 6.55                             |  | FGG.2B.30.ZLAN66                           | ○                   |
| FGG.2B.781.NN         | N         | 81 |        | 8.1                              | 9.0  | 8.5 | 8.05                             |  | FGG.2B.30.ZLAN81                           | ○                   |
| FGG.2B.797.NN         | N         | 97 |        | 9.7                              | 10.5 | 10  | 9.65                             |  | FGG.2B.30.ZLAN97                           | ○                   |
|                       |           |    |        |                                  |      |     |                                  |  |  |                     |

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

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

Bestellbeispiel:  
FGG.0B.302.ZLAN06

Part number example:  
FGG.0B.302.ZLAN06



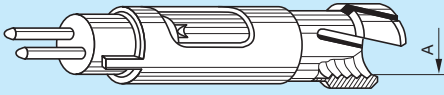
| Part number<br>Collet | Reference |    | Series | Dimensions<br>of the collet (mm) |     |     | Ø Thermo-<br>couple<br>max. (mm) | Part number<br>Insulator   | Part number<br>Collet/Insulator,<br>fitted | Time of<br>delivery |
|-----------------------|-----------|----|--------|----------------------------------|-----|-----|----------------------------------|----------------------------|--|---------------------|
|                       | Model     | Ø  |        | ØA                               | ØB  | C   |                                  |                            |  |                     |
| PHG.0B.706.NN         | N         | 06 | 0B     | 0.6                              | 4.5 | 6.3 | 0.55                             | 2-polig:<br>PHG.0B.302.ZLL | PHG.0B.30●.ZLLN06                          | ●                   |
| PHG.0B.712.NN         | N         | 12 |        | 1.2                              | 4.5 | 6.3 | 1.15                             |                            | PHG.0B.30●.ZLLN12                          | ○                   |
| PHG.0B.716.NN         | N         | 16 |        | 1.6                              | 4.5 | 6.3 | 1.55                             | 3-polig:<br>PHG.0B.303.ZLL | PHG.0B.30●.ZLLN16                          | ○                   |
| PHG.0B.721.NN         | N         | 21 |        | 2.1                              | 4.5 | 6.3 | 2.05                             |                            | PHG.0B.30●.ZLLN21                          | ○                   |
| PHG.0B.726.NN         | N         | 26 |        | 2.6                              | 4.5 | 6.3 | 2.55                             | 4-polig:<br>PHG.0B.304.ZLL | PHG.0B.30●.ZLLN26                          | ●                   |
| PHG.0B.733.NN         | N         | 33 |        | 3.3                              | 4.5 | 6.3 | 3.25                             |                            | PHG.0B.30●.ZLLN33                          | ●                   |
| PHG.0B.749.NN         | N         | 49 |        | 4.9                              | 5.5 | 7.5 | 4.85                             | PHG.0B.30●.ZLLN49          | ○  |                     |
| PHG.1B.721.NN         | N         | 21 | 1B     | 2.1                              | 7.0 | 6.0 | 2.05                             | 2-polig:<br>PHG.1B.302.ZLL | PHG.1B.30●.ZLLN21                          | ●                   |
| PHG.1B.726.NN         | N         | 26 |        | 2.6                              | 7.0 | 6.0 | 2.55                             |                            | PHG.1B.30●.ZLLN26                          | ●                   |
| PHG.1B.733.NN         | N         | 33 |        | 3.3                              | 7.0 | 6.0 | 3.25                             | 3-polig:<br>PHG.1B.303.ZLL | PHG.1B.30●.ZLLN33                          | ○                   |
| PHG.1B.749.NN         | N         | 49 |        | 4.9                              | 7.0 | 6.0 | 4.85                             |                            | PHG.1B.30●.ZLLN49                          | ○                   |
| PHG.1B.766.NN         | N         | 66 |        | 6.6                              | 7.0 | 6.0 | 6.55                             | 4-polig:<br>PHG.1B.304.ZLL | PHG.1B.30●.ZLLN66                          | ○                   |
| PHG.2B.733.NN         | N         | 33 | 2B     | 3.3                              | 6.5 | 6.0 | 3.25                             | 2-polig:<br>PHG.2B.302.ZLL | PHG.2B.30●.ZLLN33                          | ○                   |
| PHG.2B.749.NN         | N         | 49 |        | 4.9                              | 6.5 | 6.0 | 4.85                             |                            | PHG.2B.30●.ZLLN49                          | ○                   |
| PHG.2B.766.NN         | N         | 66 |        | 6.6                              | 9.0 | 8.5 | 6.55                             | 3-polig:<br>PHG.2B.303.ZLL | PHG.2B.30●.ZLLN66                          | ○                   |
| PHG.2B.781.NN         | N         | 81 |        | 8.1                              | 9.0 | 8.5 | 8.05                             |                            | 4-polig:<br>PHG.2B.304.ZLL                 | PHG.2B.30●.ZLLN81   |

- auf Lager  
(Lieferzeit je nach Lagerbestand)
- Auftragsfertigung im Werk

Bestellbeispiel:  
PHG.0B.302.ZLLN06

- in stock  
(delivery time depends of stock)
- order in production

Part number example:  
PHG.0B.302.ZLLN06



| Part number<br>Collet | Reference |    | Series | Dimensions<br>of the collet (mm) |    |   | Ø Thermo-<br>couple<br>max. (mm) | Part number<br>Insulator  | Part number<br>Collet/Insulator,<br>fitted | Time of<br>delivery |  |                   |   |                   |   |                   |   |
|-----------------------|-----------|----|--------|----------------------------------|----|---|----------------------------------|---|--|---------------------|--|-------------------|---|-------------------|---|-------------------|---|
|                       | Model     | Ø  |        | ØA                               | ØB | C |                                  |   |  |                     |  |                   |   |                   |   |                   |   |
| FGG.0B.721.FN         | F         | 21 | 0B     | 2.1                              | -  | - | 2.0                              | 2-polig:<br>FGG.0B.302.ZLA:<br>3-polig:<br>FGG.0B.303.ZLA<br>4-polig:<br>FGG.0B.304.ZLA | FGG.0B.30..ZLAF21                          | ○                   |  |                   |   |                   |   |                   |   |
| FGG.0B.731.FN         | F         | 31 |        | 3.1                              | -  | - | 3.0                              |   |  |                     | 3-polig:<br>FGG.0B.303.ZLA<br>4-polig:<br>FGG.0B.304.ZLA | FGG.0B.30..ZLAF31 | ○ |                   |   |                   |   |
| FGG.0B.742.FN         | F         | 42 |        | 4.2                              | -  | - | 4.0                              |   |  |                     |  |                   |   | FGG.0B.30..ZLAF42 | ○ |                   |   |
| FGG.0B.752.FN         | F         | 52 |        | 5.2                              | -  | - | 5.0                              |   |  |                     |  |                   |   |                   |   | FGG.0B.30..ZLAF52 | ○ |
| FGG.1B.727.FN         | F         | 27 | 1B     | 2.7                              | -  | - | 2.5                              | 2-polig:<br>FGG.1B.302.ZLA<br>3-polig:<br>FGG.1B.303.ZLA<br>4-polig:<br>FGG.1B.304.ZLA  | FGG.1B.30..ZLAF27                          | ○                   |  |                   |   |                   |   |                   |   |
| FGG.1B.731.FN         | F         | 31 |        | 3.1                              | -  | - | 3.0                              |   |  |                     | 3-polig:<br>FGG.1B.303.ZLA<br>4-polig:<br>FGG.1B.304.ZLA | FGG.1B.30..ZLAF31 | ○ |                   |   |                   |   |
| FGG.1B.742.FN         | F         | 42 |        | 4.2                              | -  | - | 4.0                              |   |  |                     |  |                   |   | FGG.1B.30..ZLAF42 | ○ |                   |   |
| FGG.1B.752.FN         | F         | 52 |        | 5.2                              | -  | - | 5.0                              |   |  |                     |  |                   |   |                   |   | FGG.1B.30..ZLAF52 | ○ |
| FGG.1B.762.FN         | F         | 62 |        | 6.2                              | -  | - | 6.0                              |   |  |                     |  |                   |   |                   |   |                   |   |
| FGG.2B.731.FN         | F         | 31 | 2B     | 3.1                              | -  | - | 3.0                              | 2-polig:<br>FGG.2B.302.ZLA<br>3-polig:<br>FGG.2B.303.ZLA<br>4-polig:<br>FGG.2B.304.ZLA  | FGG.2B.30..ZLAF31                          | ○                   |  |                   |   |                   |   |                   |   |
| FGG.2B.752.FN         | F         | 52 |        | 5.2                              | -  | - | 5.0                              |   |  |                     | 3-polig:<br>FGG.2B.303.ZLA                               | FGG.2B.30..ZLAF52 | ○ |                   |   |                   |   |
| FGG.2B.772.FN         | F         | 72 |        | 7.2                              | -  | - | 7.0                              |   |  |                     |  |                   |   | FGG.2B.30..ZLAF72 | ○ |                   |   |
| FGG.2B.782.FN         | F         | 82 |        | 8.2                              | -  | - | 8.0                              |   |  |                     |  |                   |   |                   |   | FGG.2B.30..ZLAF82 | ○ |
| FGG.2B.799.FN         | F         | 99 |        | 9.9                              | -  | - | 8.0                              |   |  |                     |  |                   |   |                   |   |                   |   |

- auf Lager  
(Lieferzeit je nach Lagerbestand)
- Auftragsfertigung im Werk

Bestellbeispiel:  
FGG.0B.302.ZLAF21

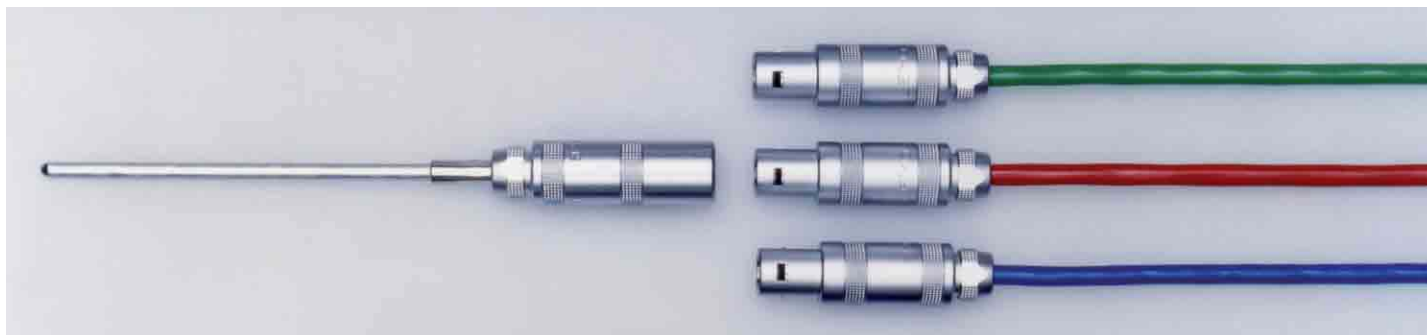
- in stock  
(delivery time depends of stock)
- order in production

Part number example:  
FGG.0B.302.ZLAF21



Konfektionierungs-Beispiel  
NiCr-Ni (Chromel-Alumel)

Cable assembly example  
NiCr-Ni (Chromel-Alumel)



Configuration

Kontaktanordnung

| Nr. Code | Material          | Material              | Polarität Polarity | Lieferzeit Delivery |
|----------|-------------------|-----------------------|--------------------|---------------------|
| E        | Ni-Cr<br>Ko       | Chromel<br>Constantan | EP(+)<br>EN(-)     | ○                   |
| J        | Fe<br>Ko          | Iron<br>Constantan    | JP(+)<br>JN(-)     | ○                   |
| K        | Ni-Cr<br>Ni       | Chromel<br>Alumel     | KP(+)<br>KN(-)     | ○                   |
| L        | Messing<br>Bronze | Brass<br>Bronze       | LP(+)<br>LN(-)     | ●                   |
| T        | Cu<br>Ko          | Copper<br>Constantan  | TP(+)<br>TN(-)     | ○                   |
| W        | Cu<br>Cu          | Copper<br>Copper      | W<br>W             | ○                   |

N = Pole negative (-) P = Pole positive (+) L = Standard contact gold plated  
N = Pol Negativ (-) P = Pol Positiv (+) L = Standardkontakt vergoldet

Siehe auch Tabelle TH-Kontaktanordnung: S Serie: Seite 18, B Serie: Seite 37  
See also table TH-Contact figuration: S Series: page 18, B Series: page 37

Colorindication Iso-S Series  
Farbmarkierung Iso-S Serie

FFA = Yellow number / gelbe Nummer

PCA }  
PSA } = White number / weiße Nummer  
ERA }

Magnetic pole formation  
Magnetische Polanordnung

Thermo material / Thermomaterial:

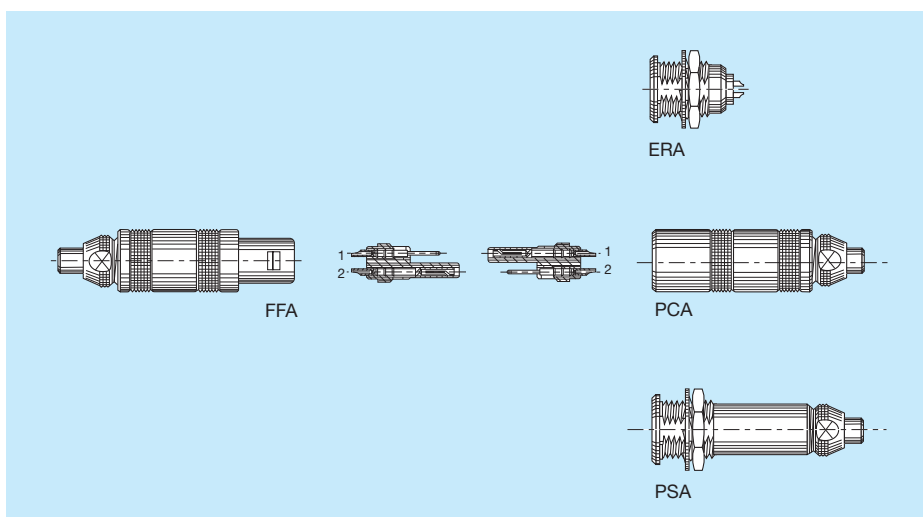
NiCr-Ni + Pole red, non magnetic / + Pol rot, antimagnetisch  
(Chromel-Alumel) - Pole green, magnetic / Pol grün, magnetisch

Compensation material / Ausgleichsmaterial:

Fe-CuNi + Pole red, non magnetic / + Pol rot, antimagnetisch  
- Pole green, magnetic / Pol grün, magnetisch

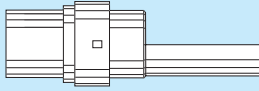
Beispiel: Kontaktanordnung  
NiCr-Ni (Chromel-Alumel)

Example: Configuration  
NiCr-Ni (Chromel-Alumel)



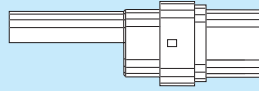
## Insulators for Crimpcontacts Isolationsteile für Crimpkontakte

### Male insulator Isolationsteil männlich



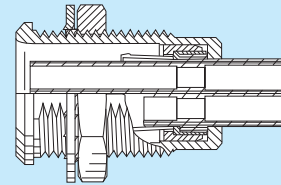
Male insulators are yellow numbered.  
Männliche Isolationsteile sind gelb nummeriert.

### Female insulator Isolationsteil weiblich



Female insulators are white numbered.  
Weibliche Isolationsteile sind weiß nummeriert.

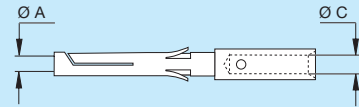
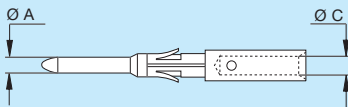
### Fixed socket without contacts Apparatedose ohne Kontakte



| Series   | Reference | Insulator part number |                | Fixed socket without contacts | Lead time |
|----------|-----------|-----------------------|----------------|-------------------------------|-----------|
|          |           | Male                  | Female         |                               |           |
| 0S<br>0E | 302       | FFA.0S.302.ZYZ        | PSA.0S.302.ZYZ | ERA.0S.302.CLZ                | ●         |
|          | 303       | FFA.0S.303.ZYZ        | PSA.0S.303.ZYZ | ERA.0S.303.CLZ                | ○         |
|          | 304       | FFA.0S.304.ZYZ        | PSA.0S.304.ZYZ | ERA.0S.304.CLZ                | ●         |
| 1S<br>1E | 302       | FFA.1S.302.ZYZ        | PSA.1S.302.ZYZ | ERA.1S.302.CLZ                | ●         |
|          | 303       | FFA.1S.303.ZYZ        | PSA.1S.303.ZYZ | ERA.1S.303.CLZ                | ○         |
|          | 304       | FFA.1S.304.ZYZ        | PSA.1S.304.ZYZ | ERA.1S.304.CLZ                | ●         |
|          | 305       | FFA.1S.305.ZYZ        | PSA.1S.305.ZYZ | ERA.1S.305.CLZ                | ○         |
|          | 306       | FFA.1S.306.ZYZ        | PSA.1S.306.ZYZ | ERA.1S.306.CLZ                | ○         |
| 2S<br>2E | 302       | FFA.2S.302.ZYZ        | PSA.2S.302.ZYZ | ERA.2S.302.CLZ                | ○         |
|          | 303       | FFA.2S.303.ZYZ        | PSA.2S.303.ZYZ | ERA.2S.303.CLZ                | ○         |
|          | 304       | FFA.2S.304.ZYZ        | PSA.2S.304.ZYZ | ERA.2S.304.CLZ                | ○         |
|          | 305       | FFA.2S.305.ZYZ        | PSA.2S.305.ZYZ | ERA.2S.305.CLZ                | ○         |
|          | 306       | FFA.2S.306.ZYZ        | PSA.2S.306.ZYZ | ERA.2S.306.CLZ                | ○         |
|          | 307       | FFA.2S.307.ZYZ        | PSA.2S.307.ZYZ | ERA.2S.307.CLZ                | ○         |
|          | 308       | FFA.2S.308.ZYZ        | PSA.2S.308.ZYZ | ERA.2S.308.CLZ                | ○         |
|          | 310       | FFA.2S.310.ZYZ        | PSA.2S.310.ZYZ | ERA.2S.310.CLZ                | ○         |

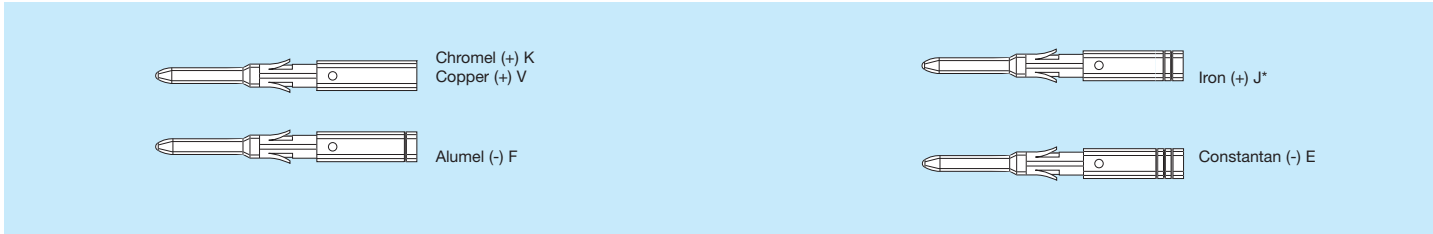
● on stock ○ request

## Crimpcontacts – standard Crimpkontakte – Standard



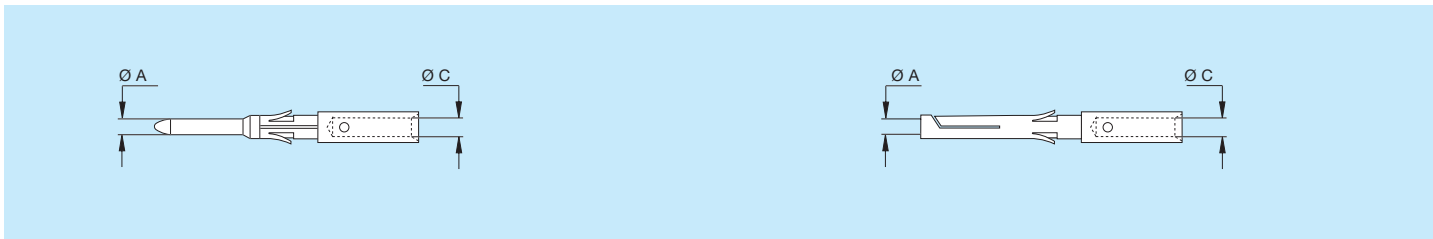
| Series   | Reference | Ø A (mm) | Ø C (mm) | Contact part number |                |
|----------|-----------|----------|----------|---------------------|----------------|
|          |           |          |          | Male                | Female         |
| 0S<br>0E | 302       | 0,9      | 1,1      | FGG.0B.560.ZZC      | EGG.0B.660.ZZM |
|          | 303/304   | 0,7      | 0,8      | FGG.0B.555.ZZC      | EGG.0B.655.ZZM |
| 1S<br>1E | 302       | 1,3      | 1,4      | FGG.1B.565.ZZC      | EGG.1B.665.ZZM |
|          | 303/304   | 0,9      | 1,1      | FGG.1B.560.ZZC      | EGG.1B.660.ZZM |
|          | 305       | 0,9      | 1,1      | FGG.1B.560.ZZC      | EGG.1B.660.ZZM |
|          |           | 0,7      | 0,8      | FGG.1B.555.ZZC      | EGG.1B.655.ZZM |
|          | 306       | 0,7      | 0,8      | FGG.1B.555.ZZC      | EGG.1B.655.ZZM |
| 2S<br>2E | 302       | 1,6      | 1,9      | FGG.2B.570.ZZC      | EGG.2B.670.ZZM |
|          | 303/304   | 1,3      | 1,4      | FGG.2B.565.ZZC      | EGG.2B.665.ZZM |
|          | 305/306   |          |          |                     |                |
|          | 307       | 1,3      | 1,4      | FGG.2B.565.ZZC      | EGG.2B.665.ZZM |
|          |           | 0,9      | 1,1      | FGG.2B.560.ZZC      | EGG.2B.660.ZZM |
|          | 308/310   | 0,9      | 1,1      | FGG.2B.560.ZZC      | EGG.2B.660.ZZM |

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



\* Auf Anfrage \* on request

**Crimpcontacts – TH-material**  
**Crimpkontakte – TH-Material**



| Series   | Reference | Ø A (mm) | Ø C (mm) | Male           | Female         | TH-Material           |
|----------|-----------|----------|----------|----------------|----------------|-----------------------|
| 0S<br>0E | 302       | 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 (Copper) (+)       |
|          |           | 0,9      | 1,1      | FGG.0B.560.ZZE | EGG.0B.660.ZZE | CuNi (Constantan) (-) |
|          | 303/304   | 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 (Copper) (+)       |
|          |           | 0,7      | 0,8      | FGG.0B.555.ZZE | EGG.0B.655.ZZE | CuNi (Constantan) (-) |
| 1S<br>1E | 302       | 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 (Copper) (+)       |
|          |           | 1,3      | 1,4      | FGG.1B.565.ZZE | EGG.1B.665.ZZE | CuNi (Constantan) (-) |
|          | 306       | 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) (-)       |
|          |           |          |          |                |                |                       |

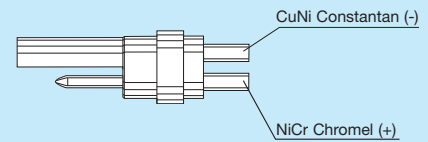
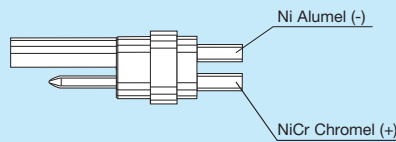
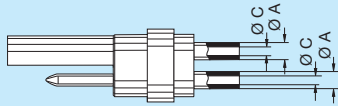
Insulators with crimp contacts  
(in the double pack)

Isolationsteile mit Crimpkontakten  
(im Doppelpack)



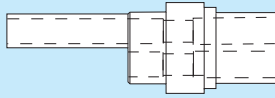
Type: K

Type: E

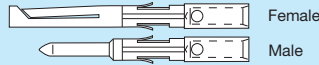


| Series   | Reference | Ø A (mm) | Ø C (mm) | Order number     | Contact material (TH-material)           | Crimping tool |
|----------|-----------|----------|----------|------------------|--|---------------|
| 0S<br>0E | 302       | 1,3      | 0,4      | PSA.0S.302.ZLM1  | standard gold contacts                   | DPE.91.121.2K |
|          |           | 1,3      | 0,7      | PSA.0S.302.ZLM2  | standard gold contacts                   |               |
|          |           | 0,9      | 0,3      | PSA.0S.302.ZLM4  | standard gold contacts                   | DPE.91.111.1K |
| 1S<br>1E | 302       | 1,6      | 0,7      | PSA.1S.302.ZLM1  | standard gold contacts1S                 | DPE.99.171.1K |
|          |           | 1,6      | 0,4      | PSA.1S.302.ZLM2  | standard gold contacts                   |               |
|          |           | 1,6      | 0,6      | PSA.1S.302.ZLM3  | standard gold contacts                   |               |
| 0S<br>0E | 302       | 1,3      | 0,4      | PSA.0S.302.ZLM1K | NiCr Chromel (+);<br>Ni Alumel (-)       | DPE.91.121.2K |
|          |           |          |          | PSA.0S.302.ZLM1E | NiCr Chromel (+);<br>CuNi Constantan (-) |               |
| 1S<br>1E | 302       | 1,6      | 0,7      | PSA.1S.302.ZLM1K | NiCr Chromel (+);<br>Ni Alumel (-)       | DPE.99.171.1K |
|          |           |          |          | PSA.1S.302.ZLM1E | NiCr Chromel (+);<br>CuNi Constantan (-) |               |

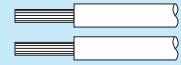
Insulator / Isolationsteil



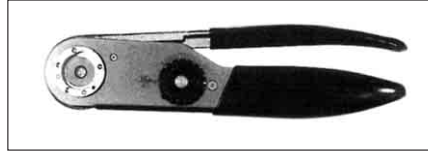
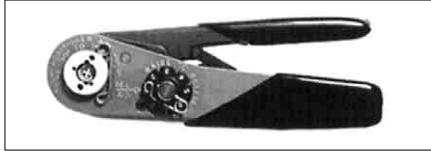
Contacts / Kontakte



Cable / Kabel



Crimpinfo



Manual crimping tools / Manuelle Crimp-Werkzeuge

| Supplier | Part number                          |                                      |
|----------|--------------------------------------|--------------------------------------|
|          | contact Ø 0,5-0,7<br>0,9-1,3 (Fig.1) | contact Ø 1,6-2,0<br>2,5-3,0 (Fig.2) |
| LEMO     | DPC.91.701.V <sup>1)</sup>           | DPC.91.101.A <sup>2)</sup>           |
| DANIELS  | MH860 <sup>1)</sup>                  | AF8 <sup>2)</sup>                    |
| ASTRO    | 616336 <sup>1)</sup>                 | 615708 <sup>2)</sup>                 |

<sup>1)</sup> According to specification MIL-C-22520/7-01.

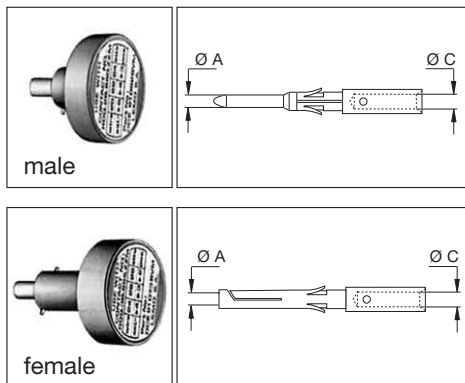
<sup>2)</sup> According to specification MIL-C-22520/1-01.

Pneumatic crimping tools  
Pneum. Crimp-Werkzeuge

| Supplier | Part number  |
|----------|--------------|
| LEMO     | DPC.91.701.C |
| BALMAR   | 85230        |
| BUCHANAN | 621101       |

According to specification MIL-C-22520/7-01.  
For LEMO contacts Ø 0,5-0,7-0,9-1,3 mm

DCE Positioners for crimp contacts Ø 0,7-0,9 and 1,3 mm  
DCE Positionierer für Crimp-Kontakte mit Ø 0,7-0,9 und 1,3 mm



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 | Positioners part number |                    |
|----------|-----------|----------|----------|---------------|-------------------------|--------------------|
|          |           |          |          |               | For male contact        | For female contact |
| 0S<br>0E | 302       | 0,9      | 1,10     | 20-22-24      | DCE.91.090.BVC          | DCE.91.090.BVM     |
|          | 303/304   | 0,7      | 0,8      | 22-24-26      | DCE.91.070.BVC          | DCE.91.070.BVM     |
| 1S<br>1E | 302       | 1,3      | 1,40     | 18-20         | DCE.91.131.BVC          | DCE.91.131.BVM     |
|          | 303/304   | 0,9      | 1,10     | 20-22-24      | DCE.91.091.BVC          | DCE.91.091.BVM     |
|          | 305       | 0,9      | 1,10     | 20-22-24      | DCE.91.071.BVC          | DCE.91.071.BVM     |
|          |           | 0,7      | 0,80     | 22-24-26      |                         |                    |
| 306      | 0,7       | 0,80     | 22-24-26 |               |                         |                    |
| 2S<br>2E | 303/304   | 1,3      | 1,40     | 18-20         | DCE.91.132.BVC          | DCE.91.132.BVM     |
|          | 305/306   |          |          |               |                         |                    |
|          | 307       | 1,3      | 1,40     | 18-20         | DCE.91.092.BVC          | DCE.91.092.BVM     |
|          |           | 0,9      | 1,10     | 20-22-24      |                         |                    |
| 308/310  | 0,9       | 1,10     | 20-22-24 |               |                         |                    |

DCE Turret for crimp contacts Ø 1,6 mm / DCE Doppelpositionierer für Crimp-Kontakte mit Ø 1,6 mm

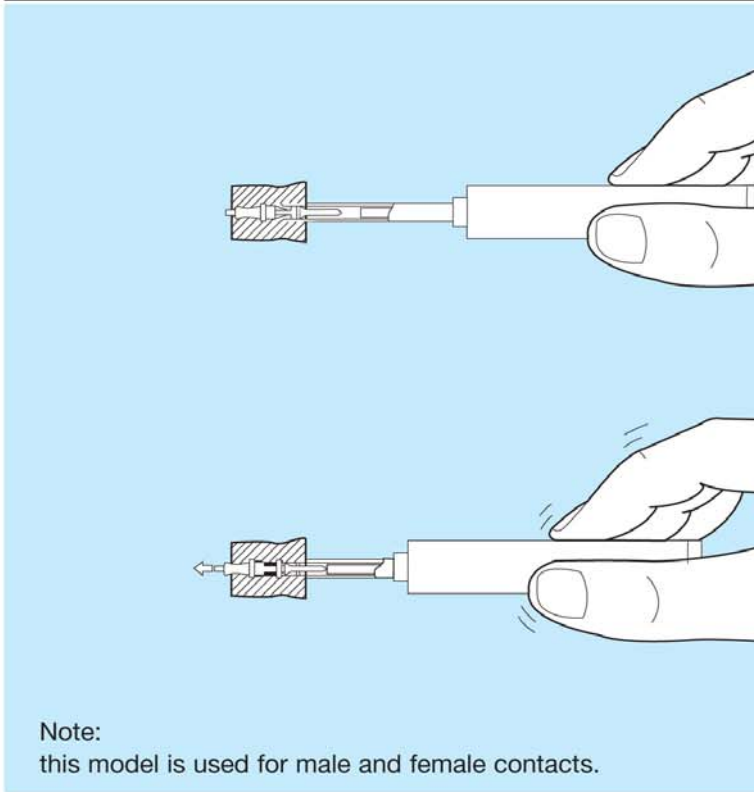
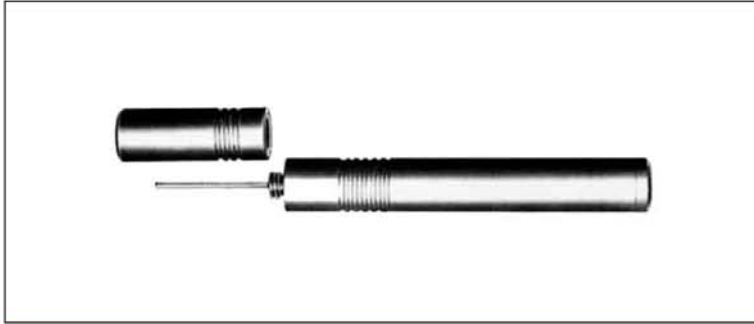


| Series   | Reference | Ø A (mm) | Ø C (mm) | Conductor AWG | Positioners part number |
|----------|-----------|----------|----------|---------------|-------------------------|
| 2S<br>2E | 302       | 1,6      | 1,90     | 14-16-18      | DCE.91.162.BVCM         |

Note: these turrets can be used with manual crimping tool according to MIL-C-22520/1-01 standard.

Note: a wide variation of strand number and diameter combinations are quoted as being AWG, some of which do not have a large enough cross section to guarantee a crimp as per either MIL-C-22520/1-01 or /7-01. Our technical department is at your disposal to study and propose a solution to all your applications.

## Automatic-Model



Note:  
this model is used for male and female contacts.

DCF Extraction tools for crimp contact  
DCF Ausstoßwerkzeuge für Crimp-Kontakte

| Series   | Connector |                     | Extractors part number<br>Automatic model |
|----------|-----------|---------------------|---|
|          | Reference | Contact<br>Ø A (mm) |   |
| 0S<br>0E | 302       | 0,9                 | DCF.93.090.4LT                            |
|          | 303/304   | 0,7                 | DCF.93.070.4LT                            |
| 1S<br>1E | 302       | 1,3                 | DCF.93.131.4LT                            |
|          | 303/304   | 0,9                 | DCF.93.090.4LT                            |
|          | 305       | 0,9                 |   |
|          |           |                     | 0,7                                       |
|          | 306       | 0,7                 |   |
| 2S<br>2E | 302       | 1,6                 | DCF.91.162.2LT                            |
|          | 303/304   | 1,3                 | DCF.93.131.4LT                            |
|          | 305/306   |                     |   |
|          | 307       | 1,3                 | DCF.93.090.4LT                            |
|          |           | 0,9                 |   |
|          | 308/310   | 0,9                 |   |

**Mechanical components from 3B and mechanical components K Series see Unipole/Multipole-Catalogue.**  
**Mechanische Bauteile B Serie ab 3B und mechanische Bauteile K Serie siehe Unipole/Multipole-Katalog.**

**Multipole**

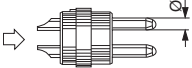
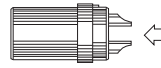
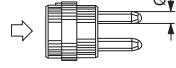
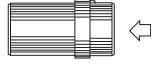
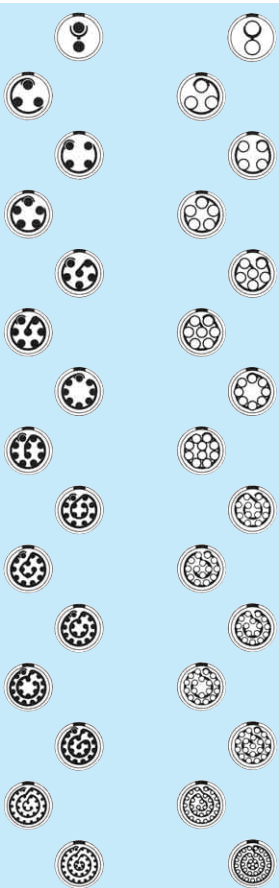
| Male solder contacts | Female solder contacts | Series   | Reference         | Number of contacts | Ø A (mm) | Contact type |       |                  |               | Solder contact                        |                                     | Crimp contact                         |                                     | Rated current (A) |
|----------------------|------------------------|----------|-------------------|--------------------|----------|--------------|-------|------------------|---------------|---------------------------------------|-------------------------------------|---------------------------------------|-------------------------------------|-------------------|
|                      |                        |          |                   |                    |          | Solder       | Crimp | Print (straight) | Print (elbow) | Test voltage (kW rms) Contact-contact | Test voltage (kW rms) Contact-shell | Test voltage (kW rms) Contact-contact | Test voltage (kW rms) Contact-shell |                   |
|                      |                        | 0B<br>0K | 302               | 2                  | 0,9      | ●            | ●     | ●                | ●             | 1,30                                  | 1,05                                | 1,45                                  | 1,20                                | 10,0              |
|                      |                        |          | 303               | 3                  | 0,9      | ●            | ●     | ●                | ●             | 1,20                                  | 0,90                                | 1,70                                  | 1,60                                | 8,0               |
|                      |                        |          | 304 <sup>1)</sup> | 4                  | 0,7      | ●            | ●     | ●                | ●             | 0,85                                  | 0,70                                | 1,35                                  | 1,10                                | 7,0               |
|                      |                        |          | 305               | 5                  | 0,7      | ●            | ●     | ●                | ●             | 1,00                                  | 0,70                                | 1,25                                  | 1,20                                | 6,5               |
|                      |                        |          | 306               | 6                  | 0,5      | ●            | ●     | ●                | ●             | 0,85                                  | 0,65                                | 1,40                                  | 1,20                                | 2,5               |
|                      |                        |          | 307               | 7                  | 0,5      | ●            | ●     | ●                | ●             | 0,80                                  | 0,70                                | 1,40                                  | 1,20                                | 2,5               |
|                      |                        |          | 309               | 9                  | 0,5      | ●            | ●     | ○                | ○             | 0,60                                  | 0,50                                | 1,00                                  | 0,85                                | 2,0               |
|                      |                        |          | 1B<br>1K          | 302                | 2        | 1,3          | ●     | ●                | ●             | ●                                     | 1,50                                | 1,35                                  | 1,70                                | 1,45              |
|                      |                        | 303      |                   | 3                  | 1,3      | ●            | ●     | ●                | ●             | 1,30                                  | 1,55                                | 1,60                                  | 1,85                                | 12,0              |
|                      |                        | 304      |                   | 4                  | 0,9      | ●            | ●     | ●                | ●             | 1,35                                  | 1,45                                | 1,70                                  | 1,80                                | 10,0              |
|                      |                        | 305      |                   | 5                  | 0,9      | ●            | ●     | ●                | ●             | 1,25                                  | 1,15                                | 1,30                                  | 1,55                                | 9,0               |
|                      |                        | 306      |                   | 6                  | 0,7      | ●            | ●     | ●                | ●             | 1,05                                  | 1,20                                | 1,35                                  | 1,45                                | 7,0               |
|                      |                        | 307      |                   | 7                  | 0,7      | ●            | ●     | ●                | ●             | 0,95                                  | 1,05                                | 1,45                                  | 1,45                                | 7,0               |
|                      |                        | 308      |                   | 8                  | 0,7      | ●            | ●     | ●                | ●             | 0,95                                  | 1,15                                | 1,30                                  | 1,30                                | 5,0               |
|                      |                        | 310      |                   | 10                 | 0,5      | ●            | ●     | ●                | ●             | 0,90                                  | 1,50                                | 1,20                                  | 1,80                                | 2,5               |
|                      |                        | 314      |                   | 14                 | 0,5      | ●            | ●     | ●                | ●             | 0,80                                  | 1,20                                | 0,95                                  | 1,60                                | 2,0               |
|                      |                        | 316      | 16                | 0,5                | ●        | ●            | ●     | ○                | 0,80          | 1,25                                  | 0,95                                | 1,60                                  | 1,5                                 |                   |

<sup>1)</sup> Also available with ceramic insulator (crimp only)

Auch mit Keramik-Isolationsteil verfügbar (nur Crimpversion)

● First choice alternative  
○ Special order alternative

Multipole

| <br>Male solder contacts |  | <br>Female solder contacts |  | Series   | Reference         | Number of contacts | Ø A (mm) | Contact type |       |                  |               | Solder contact                        |                                     | Crimp contact                         |                                     | Rated current (A) |
|--|--|---|--|----------|-------------------|--------------------|----------|--------------|-------|------------------|---------------|---------------------------------------|-------------------------------------|---------------------------------------|-------------------------------------|-------------------|
| <br>Male crimp contacts |  | <br>Female crimp contacts  |  |          |                   |                    |          | Solder       | Crimp | Print (straight) | Print (elbow) | Test voltage (kW rms) Contact-contact | Test voltage (kW rms) Contact-shell | Test voltage (kW rms) Contact-contact | Test voltage (kW rms) Contact-shell |                   |
|                        |  |   |  | 2B<br>2K | 302               | 2                  | 2,0      | ●            | ●     | ●                | ○             | 2,10                                  | 1,75                                | 2,85                                  | 2,70                                | 30,0              |
|  |  |   |  |          | 303               | 3                  | 1,6      | ●            | ●     | ●                | ●             | 2,40                                  | 1,85                                | 1,90                                  | 1,90                                | 17,0              |
|  |  |   |  |          | 304               | 4                  | 1,3      | ●            | ●     | ●                | ●             | 1,85                                  | 1,85                                | 2,20                                  | 2,20                                | 15,0              |
|  |  |   |  |          | 305               | 5                  | 1,3      | ●            | ●     | ●                | ●             | 1,75                                  | 1,60                                | 2,15                                  | 2,15                                | 14,0              |
|  |  |   |  |          | 306               | 6                  | 1,3      | ●            | ●     | ●                | ●             | 1,35                                  | 1,45                                | 2,00                                  | 2,35                                | 12,0              |
|  |  |   |  |          | 307               | 7                  | 1,3      | ●            | ●     | ●                | ●             | 1,75                                  | 1,60                                | 1,95                                  | 2,15                                | 11,0              |
|  |  |   |  |          | 308               | 8                  | 0,9      | ●            | ●     | ●                | ●             | 1,50                                  | 1,25                                | 1,95                                  | 1,95                                | 10,0              |
|  |  |   |  |          | 310               | 10                 | 0,9      | ●            | ●     | ●                | ●             | 1,45                                  | 1,30                                | 1,80                                  | 2,10                                | 8,0               |
|  |  |   |  |          | 312               | 12                 | 0,7      | ●            | ●     | ●                | ●             | 1,25                                  | 1,35                                | 1,65                                  | 2,00                                | 7,0               |
|  |  |   |  |          | 314 <sup>1)</sup> | 14                 | 0,7      | ●            | ●     | ●                | ●             | 1,15                                  | 1,35                                | 1,55                                  | 1,95                                | 6,5               |
|  |  |   |  |          | 316               | 16                 | 0,7      | ●            | ●     | ●                | ●             | 0,95                                  | 1,25                                | 1,55                                  | 1,75                                | 6,0               |
|  |  |   |  |          | 318               | 18                 | 0,7      | ●            | ●     | ●                | ●             | 0,85                                  | 1,20                                | 1,45                                  | 2,10                                | 5,5               |
|  |  |   |  |          | 319               | 19                 | 0,7      | ●            | ●     | ●                | ●             | 0,95                                  | 1,25                                | 1,55                                  | 1,65                                | 5,0               |
|  |  |   |  |          | 326               | 26                 | 0,5      | ●            | ●     | ○                | -             | 0,95                                  | 1,30                                | 1,20                                  | 1,80                                | 2,0               |
|  |  |   |  |          | 332               | 32                 | 0,5      | ●            | ●     | ○                | -             | 0,80                                  | 1,2                                 | 0,95                                  | 1,60                                | 1,5               |

From 3B/3K Series see Unipole/Multipole-Catalogue.  
Ab 3B/3K Serie siehe Unipole/Multipole-Katalog.

● First choice alternative  
○ Special order alternative

<sup>1)</sup> Also available with ceramic insulator (crimp only)  
Auch mit Keramik-Isolationsteil verfügbar (nur Crimpversion)



**FGG-EGG Crimp contacts**

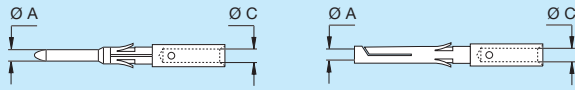


Fig.1

| Series   | Reference   | Ø A (mm) | Ø C (mm) | Contact part number |                |
|----------|-------------|----------|----------|---------------------|----------------|
|          |             |          |          | Male                | Female         |
| 0B<br>0K | 302/303     | 0,9      | 1,10     | FGG.0B.560.ZZC      | EGG.0B.660.ZZM |
|          | 304/305     | 0,7      | 0,80     | FGG.0B.555.ZZC      | EGG.0B.655.ZZM |
|          | 306/307/309 | 0,5      | 0,45     | FGG.0B.554.ZZC      | EGG.0B.654.ZZM |
| 1B<br>1K | 302/303     | 1,3      | 1,40     | FGG.1B.565.ZZC      | EGG.1B.665.ZZM |
|          | 304/305     | 0,9      | 1,10     | FGG.1B.560.ZZC      | EGG.1B.660.ZZM |
|          | 306/307/308 | 0,7      | 0,80     | FGG.1B.555.ZZC      | EGG.1B.655.ZZM |
|          | 310/314/316 | 0,5      | 0,45     | FGG.1B.554.ZZC      | EGG.1B.654.ZZM |
| 2B<br>2K | 302         | 2,0      | 2,40     | FGG.2B.575.ZZC      | EGG.2B.675.ZZM |
|          | 303         | 1,6      | 1,90     | FGG.2B.570.ZZC      | EGG.2B.670.ZZM |
|          | 304/305     | 1,3      | 1,40     | FGG.2B.565.ZZC      | EGG.2B.665.ZZM |
|          | 306/307     | 1,3      | 1,40     | FGG.2B.565.ZZC      | EGG.2B.665.ZZM |
|          | 308/310     | 0,9      | 1,10     | FGG.2B.560.ZZC      | EGG.2B.660.ZZM |
|          | 312/314/316 | 0,7      | 0,80     | FGG.2B.555.ZZC      | EGG.2B.655.ZZM |
|          | 318/319     | 0,7      | 0,80     | FGG.2B.555.ZZC      | EGG.2B.655.ZZM |
|          | 326/332     | 0,5      | 0,45     | FGG.2B.554.ZZC      | EGG.2B.654.ZZM |

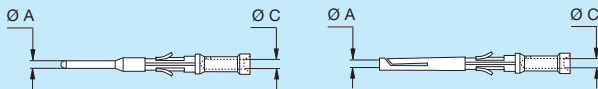
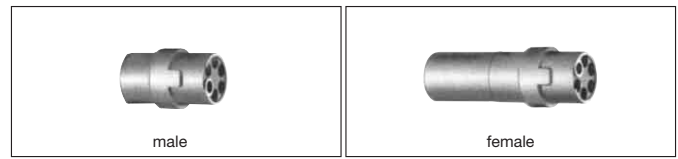


Fig.2

| Series   | Reference   | Ø A (mm) | Ø C (mm) | Contact part number |                |
|----------|-------------|----------|----------|---------------------|----------------|
|          |             |          |          | Male                | Female         |
| 0B<br>0K | 302/303     | 0,9      | 0,80     | FGG.0B.561.ZZC      | EGG.0B.661.ZZM |
|          | 302/303     | 0,9      | 0,45     | FGG.0B.562.ZZC      | EGG.0B.662.ZZM |
|          | 304/305     | 0,7      | 0,45     | FGG.0B.556.ZZC      | EGG.0B.656.ZZM |
| 1B<br>1K | 302/303     | 1,3      | 1,10     | FGG.1B.566.ZZC      | EGG.1B.666.ZZM |
|          | 304/305     | 0,9      | 0,80     | FGG.1B.561.ZZC      | EGG.1B.661.ZZM |
|          | 306/307/308 | 0,7      | 0,45     | FGG.1B.556.ZZC      | EGG.1B.656.ZZM |
| 2B<br>2K | 302         | 2,0      | 1,90     | FGG.2B.576.ZZC      | EGG.2B.676.ZZM |
|          | 303         | 1,6      | 1,40     | FGG.2B.571.ZZC      | EGG.2B.671.ZZM |
|          | 304/305     | 1,3      | 1,10     | FGG.2B.566.ZZC      | EGG.2B.666.ZZM |
|          | 306/307     | 1,3      | 1,10     | FGG.2B.566.ZZC      | EGG.2B.666.ZZM |
|          | 304/305     | 1,3      | 0,80     | FGG.2B.567.ZZC      | EGG.2B.667.ZZM |
|          | 306/307     | 1,3      | 0,80     | FGG.2B.567.ZZC      | EGG.2B.667.ZZM |
|          | 308/310     | 0,9      | 0,80     | FGG.2B.561.ZZC      | EGG.2B.661.ZZM |
|          | 308/310     | 0,9      | 0,45     | FGG.2B.562.ZZC      | EGG.2B.662.ZZM |
|          | 312/314/316 | 0,7      | 0,45     | FGG.2B.556.ZZC      | EGG.2B.656.ZZM |
|          | 318/319     | 0,7      | 0,45     | FGG.2B.556.ZZC      | EGG.2B.656.ZZM |

From 3B/3K Series see Unipole/Multipole-Catalogue.  
Ab 3B/3K Serie siehe Unipole/Multipole-Katalog.

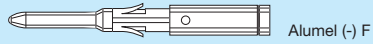


| Series   | Reference         | Insulator part number |               |
|----------|-------------------|-----------------------|---------------|
|          |                   | Male                  | Female        |
| 0B<br>0K | 302               | FGG.0B.302.YL         | EGG.0B.402.YL |
|          | 303               | FGG.0B.303.YL         | EGG.0B.403.YL |
|          | 304               | FGG.0B.304.YL         | EGG.0B.404.YL |
|          | 304 <sup>1)</sup> | FGG.0B.304.YC         | EGG.0B.404.YC |
|          | 305               | FGG.0B.305.YL         | EGG.0B.405.YL |
|          | 306               | FGG.0B.306.YL         | EGG.0B.406.YL |
|          | 307               | FGG.0B.307.YL         | EGG.0B.407.YL |
| 1B<br>1K | 309               | FGG.0B.309.YL         | EGG.0B.409.YL |
|          | 302               | FGG.1B.302.YL         | EGG.1B.402.YL |
|          | 303               | FGG.1B.303.YL         | EGG.1B.403.YL |
|          | 304               | FGG.1B.304.YL         | EGG.1B.404.YL |
|          | 305               | FGG.1B.305.YL         | EGG.1B.405.YL |
|          | 306               | FGG.1B.306.YL         | EGG.1B.406.YL |
|          | 307               | FGG.1B.307.YL         | EGG.1B.407.YL |
|          | 308               | FGG.1B.308.YL         | EGG.1B.408.YL |
|          | 310               | FGG.1B.310.YL         | EGG.1B.410.YL |
|          | 314               | FGG.1B.314.YL         | EGG.1B.414.YL |
| 2B<br>2K | 316               | FGG.1B.316.YL         | EGG.1B.416.YL |
|          | 302               | FGG.2B.302.YL         | EGG.2B.402.YL |
|          | 303               | FGG.2B.303.YL         | EGG.2B.403.YL |
|          | 304               | FGG.2B.304.YL         | EGG.2B.404.YL |
|          | 305               | FGG.2B.305.YL         | EGG.2B.405.YL |
|          | 306               | FGG.2B.306.YL         | EGG.2B.406.YL |
|          | 307               | FGG.2B.307.YL         | EGG.2B.407.YL |
|          | 308               | FGG.2B.308.YL         | EGG.2B.408.YL |
|          | 310               | FGG.2B.310.YL         | EGG.2B.410.YL |
|          | 312               | FGG.2B.312.YL         | EGG.2B.412.YL |
|          | 314               | FGG.2B.314.YL         | EGG.2B.414.YL |
|          | 314 <sup>1)</sup> | FGG.2B.314.YC         | EGG.2B.414.YC |
|          | 316               | FGG.2B.316.YL         | EGG.2B.416.YL |
|          | 318               | FGG.2B.318.YL         | EGG.2B.418.YL |
|          | 319               | FGG.2B.319.YL         | EGG.2B.419.YL |
| 326      | FGG.2B.326.YL     | EGG.2B.426.YL         |               |
| 332      | FGG.2B.332.YL     | EGG.2B.432.YL         |               |

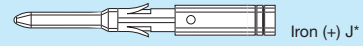
<sup>1)</sup> Ceramic / Keramik  
Technical informations on request  
Technische Informationen auf Anfrage

## TH-material mark (groove)

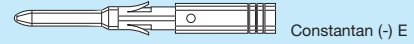
## Markierung der TH-Materialien (Rillen)

Chromel (+) K  
Copper (+) V

Alumel (-) F



Iron (+) J\*

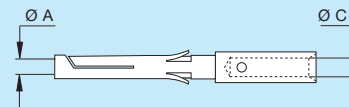
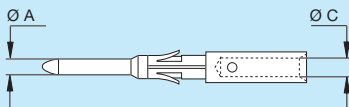


Constantan (-) E

\* Auf Anfrage \* on request

## Crimpcontacts – TH-material

## Crimpkontakte – TH-Material



| Series   | Reference   | Ø A (mm) | Ø C (mm) | Male           | Female         | TH-Material           |
|----------|-------------|----------|----------|----------------|----------------|-----------------------|
| 0B<br>0K | 302/303     | 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 (Copper) (+)       |
|          |             | 0,9      | 1,1      | FGG.0B.560.ZZE | EGG.0B.660.ZZE | CuNi (Constantan) (-) |
|          | 304/305     | 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 (Copper) (+)       |
|          |             | 0,7      | 0,8      | FGG.0B.555.ZZE | EGG.0B.655.ZZE | CuNi (Constantan) (-) |
| 1B<br>1K | 302/303     | 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 (Copper) (+)       |
|          |             | 1,3      | 1,4      | FGG.1B.565.ZZE | EGG.1B.665.ZZE | CuNi (Constantan) (-) |
|          | 306/307/308 | 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) (-)       |
| 2B       | 312/314/316 | 0,7      | 0,8      | FGG.2B.555.ZZK | EGG.2B.655.TK  | NiCr (Chromel) (+)    |
| 2K       | 318/319     | 0,7      | 0,8      | FGG.2B.555.ZZF | EGG.2B.655.TF  | Ni (Alumel) (-)       |

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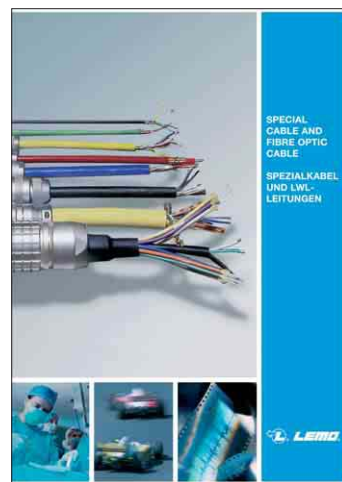
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