



**CONNECTORS  
(HIGH VOLTAGE,  
HIGH CURRENT,  
HYBRIDE)**

**STECKVER-  
BINDUNGEN  
(HOCH-  
SPANNUNG,  
HOCHSTROM,  
GEMISCHT)**



 **LEMO®**

# STECKVERBINDUNGEN | CONNECTORS

## INHALT | CONTENTS



|                                       |           |                                         |
|---------------------------------------|-----------|-----------------------------------------|
| <b>Bestellbeispiele</b>               | <b>3</b>  | <b>Part number examples</b>             |
| <b>Hochspannung</b>                   | <b>5</b>  | <b>High voltage</b>                     |
| Serie Y                               | 6-7       | Series Y                                |
| Serie 1Y.3Y                           | 8         | Series 1Y.3Y                            |
| Serie B                               | 9-10      | Series B                                |
| Serie 0S.1S                           | 11        | Series 0S.1S                            |
| Kontaktfiguration                     | 12-13     | Contactfiguration                       |
| Hochspannungskabel                    | 14        | High voltage cable                      |
| Konfektionierungsanleitung            | 15        | Assembling Instructions                 |
| <b>Technische Informationen</b>       | <b>16</b> | <b>Technical informations</b>           |
| <b>Hochspannungsfest</b>              | <b>17</b> | <b>High voltage firm</b>                |
| Serie S                               | 18-22     | Series S                                |
| Serie E                               | 23-25     | Series E                                |
| Kontaktfiguration                     | 26-27     | Contactfiguration                       |
| Konfektionierungsanleitung            | 28        | Assembling Instructions                 |
| <b>Einpolig Hochstrom</b>             | <b>29</b> | <b>Unipole high current</b>             |
| Serie S                               | 30-36     | Series S                                |
| Serie E                               | 36-39     | Series E                                |
| Kontaktfiguration                     | 40        | Contactfiguration                       |
| Konfektionierungsanleitung            | 41        | Assembling instructions                 |
| <b>Gemischt / Mehrpolig Hochstrom</b> | <b>43</b> | <b>Hybride / Multipole high current</b> |
| Serie S                               | 44-48     | Series S                                |
| Serie E                               | 48-51     | Series E                                |
| Serie B                               | 51/52     | Series B                                |
| Serie K                               | 53/54     | Series K                                |
| Kontaktfiguration                     | 55-58     | Contactfiguration                       |
| PVC-isolierte Kabel                   | 59        | PVC-insulated Cables                    |
| Konfektionierungsanleitung            | 60        | Assembling Instructions                 |
| <b>Materialien</b>                    | <b>61</b> | <b>Materials</b>                        |
| Serie Y                               | 61        | Series Y                                |
| Serie B+K                             | 62        | Series B+K                              |
| Serie S+E                             | 63        | Series S+E                              |
| <b>Spannzangen</b>                    | <b>64</b> | <b>Collets</b>                          |
| Serie Y                               | 64        | Series Y                                |
| Serie B                               | 65-66     | Series B                                |
| Serie K                               | 66-69     | Series K                                |
| Serie S                               | 70-76     | Series S                                |
| Serie E                               | 77-79     | Series E                                |
| <b>Zubehör</b>                        | <b>80</b> | <b>Accessories</b>                      |
| Knickschutztüllen                     | 80-81     | Bend Relief                             |
| Schutztüllen                          | 82        | Overall Bend Relief                     |



## BESTELLBEISPIELE | PART NUMBER EXAMPLES

### Straight plug



FFA.1Y.405.CLAC32 = straight plug with cable collet, 1Y series, high voltage 5kV, outer shell in chrome plated brass, PEEK insulator, 1 male solder contact, C type collet for a 3,2 mm diameter cable.

### Fixed socket



ERA.1Y.405.CTL = fixed socket, nut fixing, 1Y series, high voltage 5kV, outer shell in chrome plated brass, PTFE insulator, 1 female solder contact.

### Fixed coupler



SWH.1S.405 = straight coupler, nut fixing, 1S series, high voltage firm, outer shell in chrome plated brass, PEEK insulator, 1 female contacts each end.

**Note:**  
<sup>1)</sup> the „Variant“ position in the reference is used to specify either the presence of a collet nut for fitting the bend relief or the anodized colour of the housing in aluminium alloy.  
 For models with collet nut for fitting the bend relief, a „Z“ should be indicated and a bend relief can be ordered separately as indicated in the „Accessories“ section. An order for a connector with bend relief should thus include two part numbers.  
 For the various housings available in colours, the corresponding letter in the part number for the colour see Unipole/Multipole catalogue.  
 For the watertight models of socket, the letter „P“ is used; for the vacuumtight models of socket the letters „PV“ shall be indicated.  
 For the plug and socket that should be fitted with an FPM O-ring the letter „H“ shall be indicated.  
<sup>2)</sup> Variants see Unipole/Multipole catalogue.

**Steckverbindungen**  
**Connectors**  
**Kontaktfiguration**  
**Contactfiguration**  
**Kabel**  
**Cable**  
**Konfektionierungsanleitung**  
**Assembling Instructions**



**HOCHSPANNUNG**  
**HIGH VOLTAGE**

# HOCHSPANNUNG | HIGH VOLTAGE

## BAUFORM Y-SERIE | MODEL Y-SERIES



### FFA Straight plug with cable collet



| Reference |        |       | Dimensions L (mm) |                |
|-----------|--------|-------|-------------------|----------------|
| Model     | Series | Type  | male contact      | female contact |
| FFA       | 1Y     | 405 ✓ | 54                | 66             |
| FFA       | 1Y     | 410 ✓ | 63                | 83             |



### ERA Fixed socket, nut fixing

| Reference |        |       | Dimensions L (mm) |                |
|-----------|--------|-------|-------------------|----------------|
| Model     | Series | Type  | male contact      | female contact |
| ERA       | 1Y     | 405 ✓ | 61                | 51             |
| ERA       | 1Y     | 410 ✓ | 79                | 69             |



### PSA Fixed socket, nut fixing, with cable collet

| Reference |        |       | Dimensions L (mm) |                |
|-----------|--------|-------|-------------------|----------------|
| Model     | Series | Type  | male contact      | female contact |
| PSA       | 1Y     | 405 ✓ | 71                | 74             |
| PSA       | 1Y     | 410 ✓ | 81                | 93             |



### FFA Straight plug with cable collet

| Reference |        |       | Dimensions L (mm) |                |
|-----------|--------|-------|-------------------|----------------|
| Model     | Series | Type  | male contact      | female contact |
| FFA       | 3Y     | 415 ✓ | 96                | 105            |
| FFA       | 3Y     | 430 ✓ | 113               | 198            |



Part number example see page 3



## HOCHSPANNUNG | HIGH VOLTAGE BAUFORM Y-SERIE | MODEL Y-SERIES

### ERA Fixed socket, nut fixing

| Reference |        |       | Dimensions L (mm) |                |
|-----------|--------|-------|-------------------|----------------|
| Model     | Series | Type  | male contact      | female contact |
| ERA       | 3Y     | 415 ✓ | 77                | 109            |
| ERA       | 3Y     | 430 ✓ | 108               | 150            |



### ERA.3Y.260.CZZ Microswitch for fitting onto fixed socket



### PSA Fixed socket, nut fixing, with cable collet

| Reference |        |       | Dimensions L (mm) |                |
|-----------|--------|-------|-------------------|----------------|
| Model     | Series | Type  | male contact      | female contact |
| PSA       | 3Y     | 430 ✓ | -                 | 146            |



### FFB.6Y Straight plug with cable collet and safety nut

50 kV Version, technische Daten auf Anfrage.  
50 kV version, technical informations on request.



### ERA.6Y Fixed socket, nut fixing

50 kV Version, technische Daten auf Anfrage.  
50 kV version, technical informations on request.





| Reference |        |
|-----------|--------|
| Model     | Series |
| FFR       | 1Y ✓   |
| FFR       | 3Y ✓   |

| Dimensions (mm) |     |    |    |
|-----------------|-----|----|----|
| A               | L   | M  | S2 |
| 13              | 83  | 65 | 9  |
| 19              | 114 | 84 | 15 |



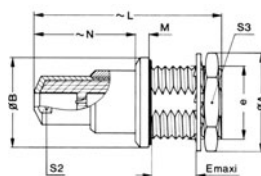
| Reference |        |
|-----------|--------|
| Model     | Series |
| ERA       | 1Y ✓   |
| ERA       | 3Y ✓   |

| Dimensions (mm) |      |         |    |    |     |      |    |
|-----------------|------|---------|----|----|-----|------|----|
| A               | B    | e       | E  | L  | M   | S1   | S3 |
| 20              | 22.0 | M16x1.0 | 8  | 34 | 4.5 | 14.5 | 19 |
| 31              | 34.5 | M24x1.0 | 12 | 50 | 6.5 | 22.5 | 30 |



| Reference |        |
|-----------|--------|
| Model     | Series |
| PEP       | 3Y ✓   |

| Dimensions (mm) |    |         |    |    |    |     |    |      |    |    |    |
|-----------------|----|---------|----|----|----|-----|----|------|----|----|----|
| A               | B  | e       | E  | H  | L  | M   | N  | S1   | S2 | S3 | S4 |
| 35              | 31 | M24x1.0 | 13 | 24 | 86 | 3.5 | 62 | 22.5 | 20 | 30 | 20 |



| Reference |        |
|-----------|--------|
| Model     | Series |
| VCP       | 1Y     |
| VCP       | 3Y ✓   |

| Dimensions (mm) |      |         |    |    |     |    |    |    |
|-----------------|------|---------|----|----|-----|----|----|----|
| A               | B    | e       | E  | L  | M   | N  | S2 | S3 |
| 20              | 22.0 | M16x1.0 | 8  | 42 | 3.0 | 24 | 9  | 19 |
| 31              | 34.5 | M24x1.0 | 12 | 60 | 3.5 | 36 | 15 | 30 |

✓ Bei Lemo vorhanden | available at Lemo



Part number example see page 3



## HOCHSPANNUNG | HIGH VOLTAGE BAUFORM B-SERIE | MODEL B-SERIES

### FCJ Straight plug with cable clamp and safety ring, keyway (J)

| Reference |        | Dimensions (mm) |    |     |    |    |    |
|-----------|--------|-----------------|----|-----|----|----|----|
| Model     | Series | A               | H  | L   | M  | S1 | S2 |
| FCJ       | 4B ✓   | 25              | 24 | 77  | 59 | 21 | 20 |
| FCJ       | 5B ✓   | 35              | 34 | 107 | 82 | 31 | 30 |



### EGJ Fixed socket, nut fixing, with keyway (J)

| Reference |        | Dimensions (mm) |    |         |      |    |     |      |
|-----------|--------|-----------------|----|---------|------|----|-----|------|
| Model     | Series | A               | B  | e       | E    | L  | M   | S1   |
| EGJ       | 4B ✓   | 28              | 32 | M25x1.0 | 12.5 | 38 | 2.5 | 23.5 |
| EGJ       | 5B ✓   | 40              | 40 | M35x1.0 | 11.0 | 43 | 3.0 | 33.5 |



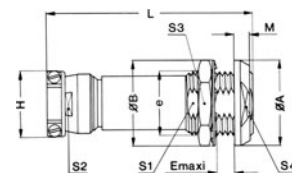
### ECJ Fixed socket, with two nuts and keyway (J) (back panel mounting)

| Reference |        | Dimensions (mm) |    |         |      |    |     |      |    |
|-----------|--------|-----------------|----|---------|------|----|-----|------|----|
| Model     | Series | A               | B  | e       | E    | L  | M   | S1   | S3 |
| ECJ       | 4B ✓   | 30              | 32 | M25x1.0 | 10.5 | 38 | 4.5 | 23.5 | 27 |
| ECJ       | 5B     | 41              | 40 | M35x1.0 | 9.0  | 43 | 5.0 | 33.5 | 37 |



### PFJ Fixed socket, with two nuts cable clamp and keyway (J) (back panel mounting)

| Reference |        | Dimensions (mm) |    |         |      |    |     |     |      |    |    |
|-----------|--------|-----------------|----|---------|------|----|-----|-----|------|----|----|
| Model     | Series | A               | B  | e       | E    | H  | L   | M   | S1   | S2 | S3 |
| PFJ       | 4B ✓   | 30              | 32 | M25x1.0 | 10.5 | 24 | 75  | 4.5 | 23.5 | 20 | 30 |
| PFJ       | 5B ✓   | 41              | 40 | M35x1.0 | 9.0  | 34 | 103 | 5.0 | 33.5 | 30 | -  |



# HOCHSPANNUNG | HIGH VOLTAGE

## BAUFORM B-SERIE | MODEL B-SERIES



### PHJ Free socket with cable clamp and keyway (J)



| Reference |        |
|-----------|--------|
| Model     | Series |
| PHJ       | 4B ✓   |
| PHJ       | 5B ✓   |

| Dimensions (mm) |    |     |    |    |
|-----------------|----|-----|----|----|
| A               | H  | L   | S1 | S2 |
| 24.4            | 24 | 75  | 21 | 20 |
| 34.2            | 34 | 103 | 31 | 31 |

### VEJ Fixed socket, nut fixing, with keyway (J) vacuumtight (back panel mounting)



| Reference |        |
|-----------|--------|
| Model     | Series |
| VEJ       | 4B ✓   |
| VEJ       | 5B     |

| Dimensions (mm) |    |    |    |       |       |    |     |      |      |    |
|-----------------|----|----|----|-------|-------|----|-----|------|------|----|
| A               | B  | C  | E  | e     | e1    | L  | M   | N    | S1   | S3 |
| 32              | 32 | 25 | 13 | M25x1 | M22x1 | 58 | 3.5 | 34.5 | 23.5 | 30 |
| 40              | 45 | 34 | 13 | M35x1 | M30x1 | 73 | 5.0 | 42.0 | 33.5 | -  |

### VPJ Fixed socket, nut fixing, with cable clamp and keyway (J) vacuumtight (back panel mounting)



| Reference |        |
|-----------|--------|
| Model     | Series |
| VPJ       | 4B ✓   |
| VPJ       | 5B     |

| Dimensions (mm) |    |    |    |       |    |     |     |      |      |    |    |
|-----------------|----|----|----|-------|----|-----|-----|------|------|----|----|
| A               | B  | C  | E  | e     | H  | L   | M   | N    | S1   | S2 | S4 |
| 32              | 32 | 25 | 13 | M25x1 | 24 | 91  | 3.5 | 67.5 | 23.5 | 20 | 21 |
| 40              | 45 | 34 | 13 | M35x1 | 34 | 112 | 5.0 | 81.0 | 33.5 | 30 | 31 |

## BAUFORM 0S.1S-SERIE | MODEL 0S.1S-SERIES

### FFR Straight plug for cable crimping with safety ring



| Reference |        |
|-----------|--------|
| Model     | Series |
| FFR       | 0S ✓   |
| FFR       | 1S ✓   |

| Dimensions (mm) |    |    |     |
|-----------------|----|----|-----|
| A               | L  | M  | S1  |
| 9               | 42 | 32 | 6.5 |
| 12              | 53 | 42 | 8.5 |



Part number example see page 3



## HOCHSPANNUNG | HIGH VOLTAGE

### BAUFORM 0S.1S-SERIE | MODEL 0S.1S-SERIES

#### ERA Fixed socket, nut fixing

| Reference |        | Dimensions (mm) |      |         |   |    |     |      |    |
|-----------|--------|-----------------|------|---------|---|----|-----|------|----|
| Model     | Series | A               | B    | e       | E | L  | M   | S1   | S3 |
| ERA       | 0S ✓   | 10              | 12.5 | M9x0.6  | 7 | 25 | 1.2 | 8.2  | 11 |
| ERA       | 1S ✓   | 14              | 16.0 | M12x1.0 | 7 | 30 | 1.5 | 10.5 | 14 |



#### PCS Free socket for cable crimping

| Reference |        | Dimensions (mm) |    |     |
|-----------|--------|-----------------|----|-----|
| Model     | Series | A               | L  | S1  |
| PCS       | 0S ✓   | 9               | 38 | 6.5 |
| PCS       | 1S ✓   | 12              | 52 | 8.5 |



#### PSS Fixed socket for cable crimping, nut fixing

| Reference |        | Dimensions (mm) |      |         |   |    |     |      |     |    |
|-----------|--------|-----------------|------|---------|---|----|-----|------|-----|----|
| Model     | Series | A               | B    | e       | E | L  | M   | S1   | S2  | S3 |
| PSS       | 0S ✓   | 10              | 12.5 | M9x0.6  | 7 | 38 | 1.2 | 8.2  | 6.5 | 11 |
| PSS       | 1S ✓   | 14              | 16.0 | M12x1.0 | 7 | 52 | 1.5 | 10.5 | 8.5 | 14 |



#### EWB Fixed socket, nut fixing, vacuumtight

| Reference |        | Dimensions (mm) |      |         |    |    |     |    |    |
|-----------|--------|-----------------|------|---------|----|----|-----|----|----|
| Model     | Series | A               | B    | e       | E  | L  | M   | S3 | S4 |
| EWB       | 0S ✓   | 13              | 12.5 | M9x0.6  | 10 | 34 | 3.5 | 9  | 11 |
| EWB       | 1S ✓   | 18              | 16.0 | M12x1.0 | 10 | 40 | 4.0 | 11 | 14 |



# HOCHSPANNUNG | HIGH VOLTAGE

## KONTAKTFIGURATION SERIE Y | CONTACTFIGURATION SERIES Y



| Soldersided seen                                                                 |                                                                                   | Order-No. | Size | Number of contacts | Contact-ø | Dielectric-ø max. | Conductor-ø max. | Supply voltage <sup>2</sup><br>(kV ~) DC | Supply voltage <sup>2</sup><br>(kV ~) AC | Test voltage <sup>3</sup><br>(kV ~) DC | Test voltage <sup>3</sup><br>(kV ~) AC | Rated current <sup>4</sup> |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------|------|--------------------|-----------|-------------------|------------------|------------------------------------------|------------------------------------------|----------------------------------------|----------------------------------------|----------------------------|
| Male contact                                                                     | Female contact                                                                    |           |      |                    |           |                   |                  |                                          |                                          |                                        |                                        |                            |
|  |  | 405       | 1    | 1                  | 1.3       | 3.2               | 1.15             | 7                                        | 5.0                                      | 10.5                                   | 7.5                                    | 8                          |
|  |  | 410       | 1    | 1                  | 1.3       | 3.2               | 1.15             | 10                                       | 7.0                                      | 15.0                                   | 10.5                                   | 8                          |
|  |  | 415       | 3    | 1                  | 4.5       | 7.3               | 2.45             | 15                                       | 10.5                                     | 22.5                                   | 16.0                                   | 15                         |
|  |  | 430       | 3    | 1                  | 4.5       | 7.3               | 2.45             | 30                                       | 21.0                                     | 45.0                                   | 32.0                                   | 15                         |
|  |  | 450       | 6    | 1                  | 7.0       | 23                | 6.6              | 50                                       | -                                        | 70                                     | -                                      | 25                         |

## BAUFORM 1Y.3Y-SERIE | MODEL 1Y.3Y-SERIES

| Soldersided seen                                                                   |                                                                                     | Order-No. | Size | Number of contacts | Contact-ø | Supply voltage <sup>1</sup><br>(kVrms) | Supply voltage <sup>1</sup><br>(kV dc) | Supply voltage <sup>2</sup><br>(kVrms) | Supply voltage <sup>2</sup><br>(kV dc) | Test voltage <sup>3</sup><br>(kVrms) | Test voltage <sup>3</sup><br>(kV dc) | Rated current <sup>4</sup> |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------|------|--------------------|-----------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|--------------------------------------|--------------------------------------|----------------------------|
| Male contact                                                                       | Female contact                                                                      |           |      |                    |           |                                        |                                        |                                        |                                        |                                      |                                      |                            |
|  |  | 416       | 1    | 1                  | 0.9       | 11.2                                   | 16                                     | 16.0                                   | 23                                     | 25                                   | 35                                   | 6                          |
|  |  | 425       | 3    | 1                  | 1.6       | 17.5                                   | 25                                     | 24.5                                   | 35                                     | 37                                   | 52                                   | 8                          |

## BAUFORM 0S.1S-SERIE | MODEL 0S.1S-SERIES

|                                                                                    |                                                                                     |     |   |   |     |     |   |     |    |      |    |   |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----|---|---|-----|-----|---|-----|----|------|----|---|
|  |  | 405 | 0 | 1 | 0.7 | 3.5 | 5 | 5.6 | 8  | 8.5  | 12 | 4 |
|  |  | 408 | 1 | 1 | 0.9 | 5.6 | 8 | 8.5 | 12 | 12.7 | 18 | 6 |



Part number example see page 3



## HOCHSPANNUNG | HIGH VOLTAGE

## KONTAKTFIGURATION SERIE B | CONTACTFIGURATION SERIES B

| Soldersided seen |                | Order-No. | Size |
|------------------|----------------|-----------|------|
| Male contact     | Female contact |           |      |
|                  |                | 460       | 4    |
|                  |                | 464       | 4    |
|                  |                | 467       | 4    |
|                  |                | 474       | 5    |
|                  |                | 481       | 5    |

| Number of contacts | Contact-ø | Supply voltage <sup>1</sup><br>(kV rms) | Supply voltage <sup>1</sup><br>(kV dc) | Supply voltage <sup>2</sup><br>(kV rms) | Supply voltage <sup>2</sup><br>(kV dc) | Test voltage <sup>3</sup><br>(kV rms) | Test voltage <sup>3</sup><br>(kV dc) | Rated current <sup>4</sup> |
|--------------------|-----------|-----------------------------------------|----------------------------------------|-----------------------------------------|----------------------------------------|---------------------------------------|--------------------------------------|----------------------------|
|                    | mm        | kV                                      | kV                                     | kV                                      | kV                                     | kV                                    | kV                                   | A                          |
| 10                 | 0.9       | 3.5                                     | 5                                      | 5.6                                     | 8                                      | 8.5                                   | 12                                   | 3                          |
| 4                  | 0.9       | 5.6                                     | 8                                      | 8.5                                     | 12                                     | 12.7                                  | 18                                   | 4                          |
| 7                  | 0.9       | 5.6                                     | 8                                      | 8.5                                     | 12                                     | 12.7                                  | 18                                   | 4                          |
| 14                 | 0.9       | 5.6                                     | 8                                      | 8.5                                     | 12                                     | 12.7                                  | 18                                   | 4                          |
| 21                 | 0.9       | 5.6                                     | 8                                      | 8.5                                     | 12                                     | 12.7                                  | 18                                   | 4                          |

### Test norms:

<sup>1</sup> IEC 130.1 §14.5 a)  $U_s = \frac{U_e - 1.5}{2}$

<sup>2</sup> IEC 130.1 §14.5 b)  $U_s = \frac{U_e}{1.5}$

<sup>3</sup> MIL

<sup>4</sup> IEC 512-3

# HOCHSPANNUNG | HIGH VOLTAGE

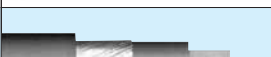
## HOCHSPANNUNGSKABEL | HIGH VOLTAGE CABLE



Special LEMO-HV-cables with small outer diameters matching exactly our LEMO-HV-connectors

|                                                                                  | Lead Time |      | Suitable Size | Price | Order-No. |
|----------------------------------------------------------------------------------|-----------|------|---------------|-------|-----------|
|                                                                                  | Stk.      | Req. |               |       |           |
|  | x         | -    | 0-2           | 0.41  | 140 470   |

| Conductor resistance | Insulation resistance | Operating Voltage $U_{max}$ | Testing Voltage $U_{max}$ | Temperature range |     | Inner conductor |         |      | Insulation |      | Outer sheath |          |
|----------------------|-----------------------|-----------------------------|---------------------------|-------------------|-----|-----------------|---------|------|------------|------|--------------|----------|
|                      |                       |                             |                           | from              | to  | Mat.            | Struct. | Ø    | Mat.       | Ø    | Mat.         | Ø (±0,2) |
| Ω/km                 | MΩ/km                 | kV dc                       | kV dc                     | °C                | °C  |                 |         | mm   |            | mm   |              | mm       |
| 50.0                 | 104                   | 3                           | 5                         | -15               | +70 | Cu Sn           | 7x0.25  | 0.75 | PE wt      | 2.05 | PVC          | 3.0      |

|                                                                                    | Lead Time |      | Suitable Size | Price | Order-No.            |
|------------------------------------------------------------------------------------|-----------|------|---------------|-------|----------------------|
|                                                                                    | Stk.      | Req. |               |       |                      |
|  | x         | -    | 0-2           | 1.00  | 150 470              |
|  | x         | -    | 1-3           | 0.87  | 106 330              |
|  | x         | -    | 3-5           | 1.72  | 315 650              |
|  | x         | -    | 1-4           | 1.52  | 130 660              |
|  | -         | x    | 1-4           | 2.22  | 130666 <sup>1</sup>  |
|  | x         | -    | 2-4           | 7.54  | 201 340 <sup>1</sup> |

| Capacitance | Conductor resistance | Insulation resistance | Operating Voltage $U_{max}$ | Testing Voltage $U_{max}$ | Temperature range |      | Inner conductor |         |      | Insulation |      | Screen |      | Outer sheath |                       |
|-------------|----------------------|-----------------------|-----------------------------|---------------------------|-------------------|------|-----------------|---------|------|------------|------|--------|------|--------------|-----------------------|
|             |                      |                       |                             |                           | from              | to   | Mat.            | Struct. | Ø    | Mat.       | Ø    | Mat.   | Ø    | Mat.         | Ø (±0,2)              |
| pF/m        | Ω/km                 | MΩ/km                 | kV dc                       | kV dc                     | °C                | °C   |                 |         | mm   |            | mm   |        | mm   |              | mm                    |
| 83.1        | 38.2                 | 220                   | 3                           | 6                         | -5                | +70  | Cu bl           | 7x0.25  | 0.75 | PE nat     | 2.05 | Cu bl  | 2.4  | PVCrd        | 4.0                   |
| 84.0        | 77.5                 | 5,000                 | 9                           | 18                        | -10               | +70  | Cu bl           | 14x0.15 | 0.60 | PE nat     | 2.80 | Cu bl  | 3.5  | PVCrd        | 4.6                   |
| 85.0        | 15.0                 | 5,000                 | 18                          | 25                        | -10               | +70  | Cu blk          | -       | 1.50 | PE nat     | 6.50 | Cu bl  | 7.3  | PVCgr        | 8.8                   |
| 82.7        | 55.8                 | 5,000                 | 30                          | 60                        | -25               | +90  | Cu Sn           | 7x0.25  | 0.75 | PErd       | 3.90 | Cu bl  | 4.4  | PVCrd        | 5.4<br>(+0.2<br>-0.0) |
| 82.7        | 55.8                 | 5,000                 | 30                          | 60                        | -25               | +90  | Cu Sn           | 7x0.25  | 0.75 | PErd       | 3.90 | Cu bl  | 4.4  | PVCrd        | 6±0,1                 |
| -           | 56.1                 | 1,000                 | 50                          | 75                        | -20               | +105 | Cu Sn           | 7x0.25  | 0.75 | PE nat     | 3.15 | Cu Sn  | 5.45 | PVCrd        | 7.25                  |

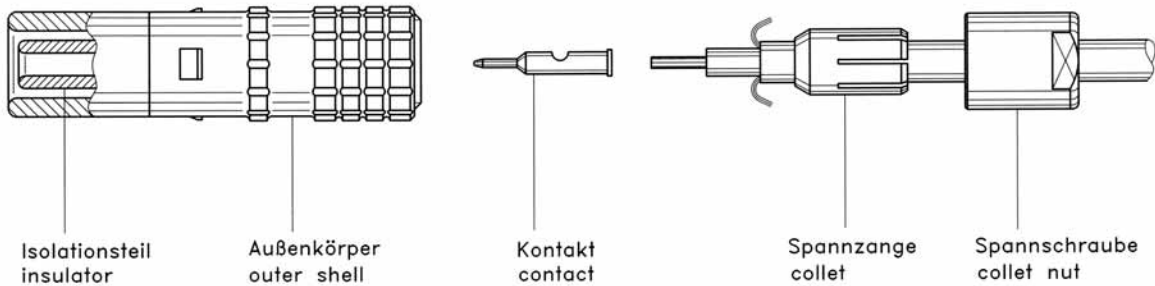
Note: <sup>1</sup> High voltage cable according to UL-style

<sup>1</sup> Hochspannungskabel gemäß UL-Ausführung



# HOCHSPANNUNG | HIGH VOLTAGE

## KONFEKTIONIERUNGSANLEITUNG | ASSEMBLING INSTRUCTIONS



| Reference |        |      | Unisolated length (mm) |    |    |
|-----------|--------|------|------------------------|----|----|
| Model     | Series | Type | A                      | B  | C  |
| FFA       | 1Y     | 405  | 8                      | 28 | 34 |
| FFA       | 1Y     | 405X | 8                      | 26 | 31 |
| PSA       | 1Y     | 405  | size on request        |    |    |
| PSA       | 1Y     | 405X | size on request        |    |    |
| FFA       | 1Y     | 410  | 8                      | 34 | 40 |
| FFA       | 1Y     | 410X | 8                      | 34 | 40 |
| PSA       | 1Y     | 410  | 8                      | 33 | 40 |
| PSA       | 1Y     | 410X | 8                      | 33 | 40 |
| FFA       | 3Y     | 415  | 15                     | 62 | 72 |
| FFA       | 3Y     | 415X | 7                      | 32 | 43 |
| PSA       | 3Y     | 415  | size on request        |    |    |
| PSA       | 3Y     | 415X | size on request        |    |    |
| FFA       | 3Y     | 430  | 14                     | 82 | 92 |
| FFA       | 3Y     | 430X | 12                     | 88 | 95 |
| PSA       | 3Y     | 430  | 8                      | 40 | 50 |
| PSA       | 3Y     | 430X | size on request        |    |    |



**Note:** The dimensions are standard values and may vary depending on the cable quality.

Die Abmessungen sind Richtwerte und können sich je nach Kabelqualität ändern.

# TECHNISCHE INFORMATIONEN | TECHNICAL INFORMATION

## SERIE Y | SERIES Y



|                                                                                                                                                                                             |                                                                                                                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Die Hochspannungsserie Y besitzt das LEMO Push-Pull Verriegelungssystem mit hohem Sicherheitsfaktor.                                                                                        | The high voltage Y-series with the LEMO Push-Pull Self Latching Connection System provides high security.                                                                           |
| <ul style="list-style-type: none"> <li>Stecker und Buchse sind mit männlichen oder weiblichen Kontakten lieferbar.</li> </ul>                                                               | <ul style="list-style-type: none"> <li>Plug and socket are available with male or female contacts.</li> </ul>                                                                       |
| <ul style="list-style-type: none"> <li>Die Luft- und Kriechstrecken sind nach DIN EN 61010 gewährleistet.</li> </ul>                                                                        | <ul style="list-style-type: none"> <li>The creepage distance and air clearance are guaranteed according to DIN EN 61010.</li> </ul>                                                 |
| <ul style="list-style-type: none"> <li>Einfache Kabelmontage.</li> </ul>                                                                                                                    | <ul style="list-style-type: none"> <li>Simple cable assembly.</li> </ul>                                                                                                            |
| <ul style="list-style-type: none"> <li>Die Serie Y ist für gepulste Spannungen geeignet, auf Wunsch führen wir einen Langzeittest exakt nach Ihren Spannungsverhältnissen durch.</li> </ul> | <ul style="list-style-type: none"> <li>The Y-series is appropriate for pulsed voltage, on request long-term tests are conducted exactly according to your voltage ratio.</li> </ul> |



### Fixed socket

- |                     |                   |
|---------------------|-------------------|
| 1) outer shell      | 5) locking ring   |
| 2) earthing crown   | 6) insulator      |
| 3) castellated ring | 7) female contact |
| 4) hexagonal nut    | 8) sealing ring   |

### Straight plug

- |                 |                 |
|-----------------|-----------------|
| 1) outer shell  | 6) insulator    |
| 2) inner shell  | 7) male contact |
| 3) latch sleeve | 8) circlip      |
| 4) collet nut   | 9) collet       |
| 5) centre-piece |                 |

### Electrical Datas

| Characteristic         | Units  | Series            |        |        |        |        | Standards     | Methode |
|------------------------|--------|-------------------|--------|--------|--------|--------|---------------|---------|
|                        |        | 1Y.405            | 1Y.410 | 3Y.415 | 3Y.430 | 6Y.450 |               |         |
| Operating Voltage      | kV dc  | 7                 | 10     | 15     | 30     | 50     | IEC 130.1     |         |
|                        | kV eff | 5                 | 7      | 10.5   | 21     | –      |               |         |
| Contact resistance     | mΩ     | <3                | <3     | <2     | <2     | <0.4   | MIL-STD-202   | 307     |
| Insulations resistance | Ω      | >10 <sup>12</sup> |        |        |        |        | MIL-STD-1344A | 3003.1  |

### Mechanical Datas and Temperature Informations

| Characteristic           | Units  | Series                    |      |      | Standards     | Methode |
|--------------------------|--------|---------------------------|------|------|---------------|---------|
|                          |        | 1Y                        | 3Y   | 6Y   |               |         |
| Contact-pullout strength | N      | <24                       | <60  | –    | MIL-STD-1344A | 2007.1  |
| Cable-tensile strength   | N      | <300                      | <550 | <800 | MIL-STD-1344A | 2009.1  |
| Mechanical Lifetime      | Cycles | <1000                     |      |      | MIL-STD-1344A | 2016    |
|                          | °C     | -55 +230 (-67 °F +446 °F) |      |      |               |         |

### Panel Cut out



| Series | Dimensions (mm) |      | Torque (Nm) |
|--------|-----------------|------|-------------|
|        | øA              | L    |             |
| 1Y     | 16.1            | 22.0 | 14          |
| 3Y     | 24.2            | 35.5 | 25          |
| 6Y     | 55.3            | 67.5 | 55          |

Zubehörteile und Werkzeuge siehe Unipole/Multipole Katalog.  
Accessories and Tools see Unipole/Multipole Catalogue.

1N = 0.102 Kg

**Steckverbindungen  
Connectors  
Kontaktfiguration  
Contactfiguration  
Konfektionierungsanleitung  
Assembling Instructions**



**HOCHSPANNUNGSFEST  
HIGH VOLTAGE FIRM**

# HOCHSPANNUNGSFEST | HIGH VOLTAGE FIRM

## BAUFORM S-SERIE | MODEL S-SERIES



### FFA Straight plug, cable collet



| Reference |        | Dimensions (mm) |       |      |      |
|-----------|--------|-----------------|-------|------|------|
| Model     | Series | A               | L     | M    | S2   |
| FFA       | 0S     | 9.0             | 34.5  | 24.5 | 6.5  |
| FFA       | 1S ✓   | 12.0            | 42.5  | 31.5 | 8.5  |
| FFA       | 2S     | 14.8            | 52.0  | 40.0 | 11.0 |
| FFA       | 3S ✓   | 17.8            | 61.0  | 46.0 | 14.0 |
| FFA       | 4S ✓   | 24.8            | 77.0  | 59.0 | 19.0 |
| FFA       | 5S ✓   | 35.1            | 103.0 | 78.0 | 29.0 |

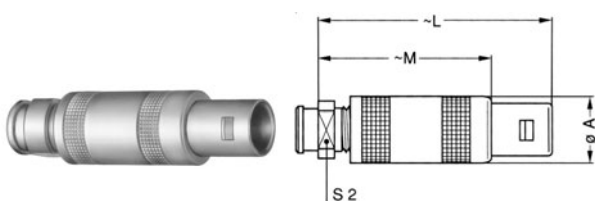
### FFA Straight plug with oversize cable collet



| Reference |        | Dimensions (mm) |      |       |       |      |      |
|-----------|--------|-----------------|------|-------|-------|------|------|
| Model     | Series | A               | B    | L     | M     | S1   | S2   |
| FFA       | 0S ✓   | 9.0             | 10.0 | 45.5  | 35.5  | 9.0  | 8.5  |
| FFA       | 1S ✓   | 12.0            | 13.0 | 57.0  | 46.0  | 12.0 | 11.0 |
| FFA       | 2S ✓   | 14.8            | 18.0 | 67.0  | 55.0  | 14.0 | 14.0 |
| FFA       | 3S ✓   | 17.8            | 21.0 | 85.0  | 70.0  | 19.0 | 19.0 |
| FFA       | 4S ✓   | 24.8            | 31.8 | 107.0 | 89.0  | 28.5 | 29.0 |
| FFA       | 5S ✓   | 35.1            | 41.8 | 138.0 | 113.0 | 37.5 | 38.0 |

**Note:** the fitting of oversize collets onto this model allows them to be fitted to the cables that can be accommodated by the next housing size up

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



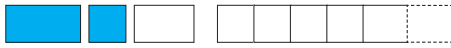
| Reference |        | Dimensions (mm) |      |      |    |
|-----------|--------|-----------------|------|------|----|
| Model     | Series | A               | L    | M    | S2 |
| FFA       | 0S ✓   | 9.0             | 34.5 | 24.5 | 7  |
| FFA       | 1S ✓   | 12.0            | 42.5 | 31.5 | 9  |
| FFA       | 2S ✓   | 14.8            | 52.0 | 40.0 | 12 |
| FFA       | 3S ✓   | 17.8            | 61.0 | 46.0 | 14 |
| FFA       | 4S ✓   | 24.8            | 77.0 | 59.0 | 20 |

**Note:** the bend relief must be ordered separately (see page 80)

### FFP Straight plug, cable collet and inner anti-rotating device



| Reference |        | Dimensions (mm) |      |      |      |
|-----------|--------|-----------------|------|------|------|
| Model     | Series | A               | L    | M    | S2   |
| FFP       | 0S     | 9.0             | 34.5 | 24.5 | 6.5  |
| FFP       | 1S     | 12.0            | 42.5 | 31.5 | 8.5  |
| FFP       | 2S     | 14.8            | 52.0 | 40.0 | 11.0 |
| FFP       | 3S ✓   | 17.8            | 61.0 | 46.0 | 14.0 |
| FFP       | 4S     | 24.8            | 77.0 | 59.0 | 19.0 |



Part number example see page 3

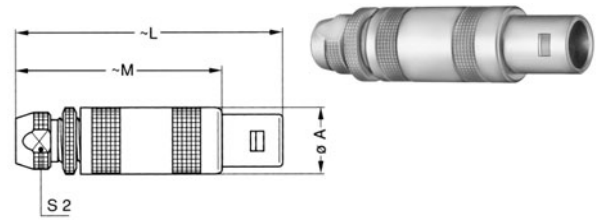


## HOCHSPANNUNGSFEST | HIGH VOLTAGE FIRM

### BAUFORM S-SERIE | MODEL S-SERIES

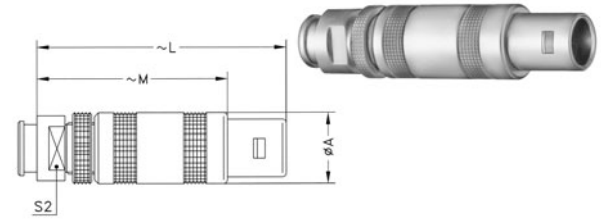
#### FFB Straight plug, cable collet and safety locking ring

| Reference |        | Dimensions (mm) |      |      |      |
|-----------|--------|-----------------|------|------|------|
| Model     | Series | A               | L    | M    | S2   |
| FFB       | 0S ✓   | 9.0             | 36.8 | 26.8 | 6.5  |
| FFB       | 1S ✓   | 12.0            | 45.0 | 34.0 | 8.5  |
| FFB       | 2S ✓   | 14.8            | 55.5 | 43.5 | 11.0 |
| FFB       | 3S ✓   | 17.8            | 65.0 | 50.0 | 14.0 |



#### FFB Straight plug, cable collet and safety locking ring and nut for fitting a bend relief

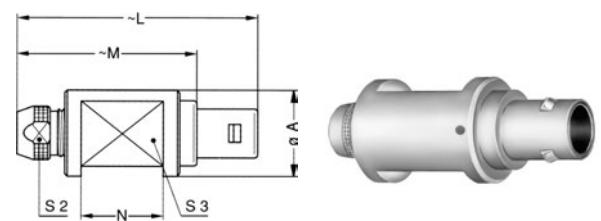
| Reference |        | Dimensions (mm) |      |      |    |
|-----------|--------|-----------------|------|------|----|
| Model     | Series | A               | L    | M    | S2 |
| FFB       | 0S     | 9.0             | 36.8 | 26.8 | 7  |
| FFB       | 1S ✓   | 12.0            | 45.0 | 34.0 | 9  |
| FFB       | 2S     | 14.8            | 55.5 | 43.5 | 12 |
| FFB       | 3S     | 17.8            | 65.0 | 50.0 | 14 |



**Note:** series 0S, 2S and 3S are available on request  
the bend relief must be ordered separately (see page 80)

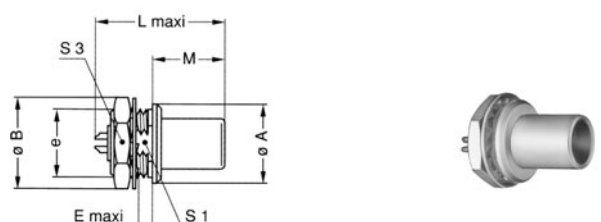
#### FZP Straight plug for remote handling, cable collet and inner anti-rotating device

| Reference |        | Dimensions (mm) |       |      |    |      |    |
|-----------|--------|-----------------|-------|------|----|------|----|
| Model     | Series | A               | L     | M    | N  | S2   | S3 |
| FZP       | 1S     | 16              | 42.5  | 31.5 | 15 | 8.5  | 12 |
| FZP       | 2S ✓   | 24              | 52.0  | 40.0 | 21 | 11.0 | 18 |
| FZP       | 3S ✓   | 24              | 61.0  | 46.0 | 24 | 14.0 | 18 |
| FZP       | 4S     | 35              | 77.0  | 59.0 | 30 | 19.0 | 28 |
| FZP       | 5S     | 43              | 103.0 | 78.0 | 44 | 29.0 | 35 |
| FZP       | 6S     | 60              | 106.0 | 81.0 | 44 | 38.0 | 50 |



#### FAA Fixed plug non-latching, nut fixing

| Reference |        | Dimensions (mm) |      |         |     |      |      |      |      |    |
|-----------|--------|-----------------|------|---------|-----|------|------|------|------|----|
| Model     | Series | A               | B    | e       | E   | L    | L'   | M    | S1   | S3 |
| FAA       | 0S ✓   | 10              | 12.5 | M9x0.6  | 2.0 | 18.5 | 18.0 | 11.2 | 8.2  | 11 |
| FAA       | 1S ✓   | 14              | 16.0 | M12x1.0 | 2.5 | 22.5 | 21.7 | 12.5 | 10.5 | 14 |
| FAA       | 2S     | 18              | 19.5 | M15x1.0 | 4.0 | 25.0 | 25.3 | 13.8 | 13.5 | 17 |
| FAA       | 3S ✓   | 22              | 25.2 | M18x1.0 | 4.0 | 31.0 | 29.0 | 17.0 | 16.5 | 22 |
| FAA       | 4S     | 28              | 32.0 | M25x1.0 | 2.5 | 35.5 | 39.0 | 20.5 | 23.5 | 30 |
| FAA       | 5S     | 40              | 40.0 | M35x1.0 | 2.5 | 45.0 | -    | 28.0 | 33.5 | -  |



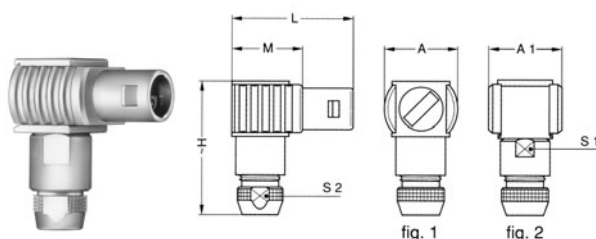
**Note:** <sup>1</sup> unipole model

# HOCHSPANNUNGSFEST | HIGH VOLTAGE FIRM

## BAUFORM S-SERIE | MODEL S-SERIES



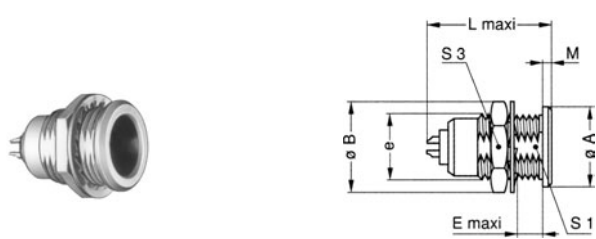
### FLA Elbow (90°) plug, cable collet



| Reference |        | Dimensions (mm) |    |      |      |      |    |      |
|-----------|--------|-----------------|----|------|------|------|----|------|
| Model     | Series | A               | A1 | H    | L    | M    | S1 | S2   |
| FLA       | 0S ✓   | 13              | 13 | 24.5 | 23.0 | 13.0 | 8  | 6.5  |
| FLA       | 1S     | 16              | 16 | 28.5 | 26.5 | 15.5 | 10 | 8.5  |
| FLA       | 2S ✓   | 20              | 20 | 37.0 | 31.0 | 19.0 | 13 | 11.0 |
| FLA       | 3S ✓   | 21              | 21 | 44.0 | 38.5 | 23.5 | 15 | 14.0 |
| FLA       | 4S     | 28              | 28 | 56.0 | 49.0 | 31.0 | 20 | 19.0 |
| FLA       | 5S ✓   | -               | 37 | 76.5 | 65.0 | 40.0 | 30 | 29.0 |

**Note:** fig.1 is used for the unipole type. fig.2 is used for the multipole type

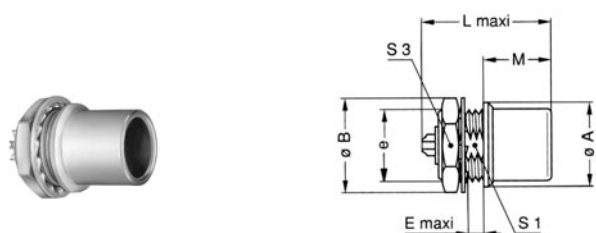
### ERA Fixed socket, nut fixing



| Reference |        | Dimensions (mm) |      |         |      |      |      |     |      |
|-----------|--------|-----------------|------|---------|------|------|------|-----|------|
| Model     | Series | A               | B    | e       | E    | L    | L'   | M   | S1   |
| ERA       | 0S ✓   | 10              | 12.5 | M9x0.6  | 7.0  | 17.5 | 18.5 | 1.2 | 8.2  |
| ERA       | 1S ✓   | 14              | 16.0 | M12x1.0 | 7.5  | 20.2 | 21.5 | 1.5 | 10.5 |
| ERA       | 2S ✓   | 18              | 19.5 | M15x1.0 | 8.5  | 24.5 | 26.0 | 1.8 | 13.5 |
| ERA       | 3S ✓   | 22              | 25.2 | M18x1.0 | 11.5 | 29.0 | 30.0 | 2.0 | 16.5 |
| ERA       | 4S ✓   | 28              | 32.0 | M25x1.0 | 12.0 | 34.0 | 36.0 | 2.5 | 23.5 |
| ERA       | 5S ✓   | 40              | 40.0 | M35x1.0 | 15.5 | 45.0 | 78.5 | 3.0 | 33.5 |

**Note:** the 5S series is delivered with a tapered washer and a round nut.  
 ' unipole model

### EHP Fixed socket, nut fixing, protruding shell



| Reference |        | Dimensions (mm) |      |         |     |      |      |      |     |
|-----------|--------|-----------------|------|---------|-----|------|------|------|-----|
| Model     | Series | A               | B    | e       | E   | L    | L'   | M    | S1  |
| EHP       | 0S ✓   | 10              | 12.5 | M9x0.6  | 2.5 | 17.5 | 18.5 | 12.5 | 8.2 |
| EHP       | 1S ✓   | 14              | 16.0 | M12x1.0 | 3.5 | 20.2 | 21.5 | 12.0 | -   |
| EHP       | 3S ✓   | 22              | 25.2 | M18x1.0 | 4.0 | 29.0 | 30.0 | 18.7 | -   |

**Note:** ' unipole model



Part number example see page 3



## HOCHSPANNUNGSFEST | HIGH VOLTAGE FIRM

### BAUFORM S-SERIE | MODEL S-SERIES

#### PCA Free socket, cable collet

| Reference |        | Dimensions (mm) |      |      |
|-----------|--------|-----------------|------|------|
| Model     | Series | A               | L    | S2   |
| PCA       | 0S ✓   | 8.9             | 33.5 | 6.5  |
| PCA       | 1S ✓   | 11.9            | 40.5 | 8.5  |
| PCA       | 2S ✓   | 14.8            | 50.0 | 11.0 |
| PCA       | 3S ✓   | 17.8            | 59.0 | 14.0 |
| PCA       | 4S ✓   | 24.8            | 75.0 | 19.0 |
| PCA       | 5S ✓   | 34.7            | 99.0 | 29.0 |



#### PCA Free socket with oversize cable collet

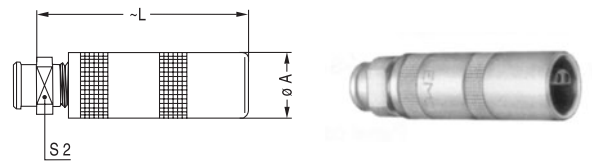
| Reference |        | Dimensions (mm) |      |       |      |      |
|-----------|--------|-----------------|------|-------|------|------|
| Model     | Series | A               | B    | L     | S1   | S2   |
| PCA       | 0S ✓   | 8.9             | 10.0 | 44.5  | 9.0  | 8.5  |
| PCA       | 1S ✓   | 11.9            | 13.0 | 55.0  | 12.0 | 11.0 |
| PCA       | 2S ✓   | 14.8            | 18.0 | 65.0  | 14.0 | 14.0 |
| PCA       | 3S ✓   | 17.8            | 21.0 | 83.0  | 19.0 | 19.0 |
| PCA       | 4S ✓   | 24.8            | 31.8 | 105.0 | 28.5 | 29.0 |



**Note:** the fitting of oversize collets onto this model allows it to be fitted to the cables that can be accommodated by the next housing size up.

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

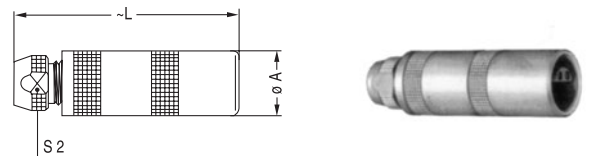
| Reference |        | Dimensions (mm) |      |      |
|-----------|--------|-----------------|------|------|
| Model     | Series | A               | L    | S2   |
| PCA       | 0S ✓   | 8.9             | 33.5 | 7.0  |
| PCA       | 1S ✓   | 11.9            | 40.5 | 9.0  |
| PCA       | 2S ✓   | 14.8            | 50.0 | 12.0 |
| PCA       | 3S ✓   | 17.8            | 59.0 | 14.0 |
| PCA       | 4S ✓   | 24.8            | 75.0 | 20.0 |



**Note:** the bend relief must be ordered separately (see page 80)

#### PCP Free socket, cable collet and inner anti-rotating device

| Reference |        | Dimensions (mm) |      |      |
|-----------|--------|-----------------|------|------|
| Model     | Series | A               | L    | S2   |
| PCP       | 0S ✓   | 8.9             | 33.5 | 6.5  |
| PCP       | 1S ✓   | 11.9            | 40.5 | 8.5  |
| PCP       | 2S ✓   | 14.8            | 50.0 | 11.0 |
| PCP       | 3S ✓   | 17.8            | 59.0 | 14.0 |
| PCP       | 4S ✓   | 24.8            | 75.0 | 19.0 |



# HOCHSPANNUNGSFEST | HIGH VOLTAGE FIRM

## BAUFORM S-SERIE | MODEL S-SERIES



### PSA Fixed socket, nut fixing, cable collet



| Reference |        | Dimensions (mm) |      |         |      |      |     |      |      |    |
|-----------|--------|-----------------|------|---------|------|------|-----|------|------|----|
| Model     | Series | A               | B    | e       | E    | L    | M   | S1   | S2   | S3 |
| PSA       | 0S ✓   | 10              | 12.5 | M9x0.6  | 7.0  | 33.5 | 1.2 | 8.2  | 6.5  | 11 |
| PSA       | 1S ✓   | 14              | 16.0 | M12x1.0 | 7.5  | 40.5 | 1.5 | 10.5 | 8.5  | 14 |
| PSA       | 2S ✓   | 18              | 19.5 | M15x1.0 | 8.5  | 50.0 | 1.8 | 13.5 | 11.0 | 17 |
| PSA       | 3S ✓   | 22              | 25.2 | M18x1.0 | 11.5 | 59.0 | 2.0 | 16.5 | 14.0 | 22 |
| PSA       | 4S ✓   | 28              | 32.0 | M25x1.0 | 12.0 | 75.0 | 2.5 | 27.5 | 19.0 | 30 |
| PSA       | 5S ✓   | 40              | 40.0 | M35x1.0 | 15.5 | 99.0 | 3.0 | 33.5 | 29.0 | -  |

**Note:** the 5S series is delivered with a tapered washer and a round nut.

### PSP Fixed socket, nut fixing, cable collet and inner anti-rotating device



| Reference |        | Dimensions (mm) |      |         |      |      |     |      |      |    |
|-----------|--------|-----------------|------|---------|------|------|-----|------|------|----|
| Model     | Series | A               | B    | e       | E    | L    | M   | S1   | S2   | S3 |
| PSP       | 0S ✓   | 10              | 12.5 | M9x0.6  | 7.0  | 33.5 | 1.2 | 8.2  | 6.5  | 11 |
| PSP       | 1S ✓   | 14              | 16.0 | M12x1.0 | 7.5  | 40.5 | 1.5 | 10.5 | 8.5  | 14 |
| PSP       | 2S ✓   | 18              | 19.5 | M15x1.0 | 8.5  | 50.0 | 1.8 | 13.5 | 11.0 | 17 |
| PSP       | 3S ✓   | 22              | 25.2 | M18x1.0 | 11.5 | 59.0 | 2.0 | 16.5 | 14.0 | 22 |
| PSP       | 4S ✓   | 28              | 32.0 | M25x1.0 | 12.0 | 75.0 | 2.5 | 23.5 | 19.0 | 30 |

### RAD Fixed coupler, nut fixing



| Reference |        | Dimensions (mm) |      |         |      |      |     |      |    |
|-----------|--------|-----------------|------|---------|------|------|-----|------|----|
| Model     | Series | A               | B    | e       | E    | L    | M   | S1   | S2 |
| RAD       | 0S ✓   | 10              | 12.5 | M9x0.6  | 7.0  | 25.0 | 1.2 | 8.2  | 11 |
| RAD       | 1S ✓   | 14              | 16.0 | M12x1.0 | 7.5  | 28.5 | 1.5 | 10.5 | 14 |
| RAD       | 2S ✓   | 18              | 19.5 | M15x1.0 | 8.5  | 31.5 | 1.8 | 13.5 | 17 |
| RAD       | 3S ✓   | 22              | 25.2 | M18x1.0 | 11.5 | 38.5 | 2.0 | 16.5 | 22 |
| RAD       | 4S ✓   | 28              | 32.0 | M25x1.0 | 12.0 | 46.5 | 2.5 | -    | 30 |
| RAD       | 5S ✓   | 40              | 40.0 | M35x1.0 | 15.5 | 60.5 | 3.0 | -    | -  |

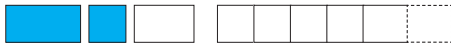
**Note:** the 5S series is delivered with a tapered washer and a round nut.

### SWH Fixed coupler, nut fixing watertight or vacuumtight



| Reference |        | Dimensions (mm) |      |          |    |    |     |      |    |
|-----------|--------|-----------------|------|----------|----|----|-----|------|----|
| Model     | Series | A               | B    | e        | E  | L  | M   | S1   | S3 |
| SWH       | 0S ✓   | 14              | 13.8 | M10x0.75 | 17 | 34 | 2.0 | 9.0  | 12 |
| SWH       | 1S ✓   | 17              | 16.0 | M12x1.00 | 28 | 39 | 2.5 | 10.5 | 14 |
| SWH       | 2S ✓   | 20              | 21.8 | M16x1.00 | 25 | 44 | 4.0 | 15.0 | 19 |
| SWH       | 3S ✓   | 25              | 27.0 | M20x1.00 | 30 | 53 | 4.0 | 18.5 | 24 |
| SWH       | 4S ✓   | 34              | 32.0 | M25x1.00 | 50 | 65 | 4.0 | 23.5 | 30 |
| SWH       | 5S ✓   | 45              | 40.0 | M35x1.00 | 58 | 80 | 5.0 | 33.5 | -  |

**Note:** see page 26 for the available plug and contact configurations and in order to ensure correct contact alignment.  
The 5S series is delivered with a round nut.



Part number example see page 3

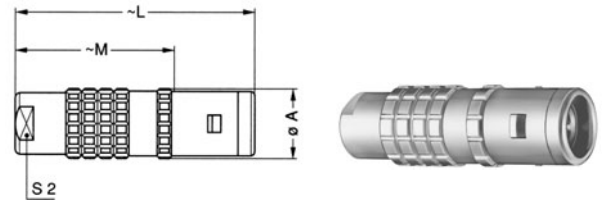


## HOCHSPANNUNGSFEST | HIGH VOLTAGE FIRM

### BAUFORM E-SERIE | MODEL E-SERIES

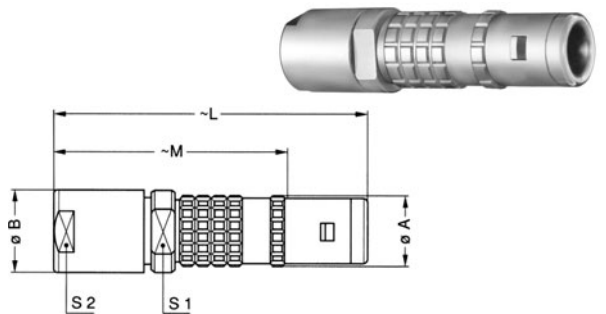
#### FFA Straight plug, cable collet – watertight

| Reference |        | Dimensions (mm) |    |      |    |
|-----------|--------|-----------------|----|------|----|
| Model     | Series | A               | L  | M    | S2 |
| FFA       | 0E ✓   | 11              | 34 | 23.0 | 8  |
| FFA       | 1E ✓   | 13              | 42 | 28.0 | 9  |
| FFA       | 2E ✓   | 16              | 52 | 36.0 | 12 |
| FFA       | 3E ✓   | 19              | 61 | 41.0 | 15 |
| FFA       | 4E     | 25              | 71 | 50.5 | 19 |
| FFA       | 5E ✓   | 38              | 92 | 67.0 | 32 |



#### FFA Straight plug with oversize cable collet – watertight

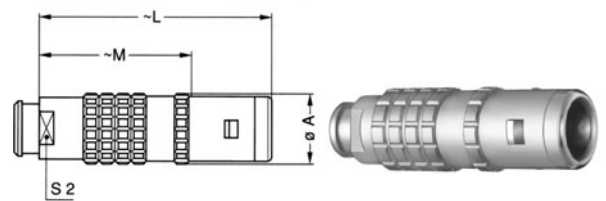
| Reference |        | Dimensions (mm) |      |     |    |    |    |
|-----------|--------|-----------------|------|-----|----|----|----|
| Model     | Series | A               | B    | L   | M  | S1 | S2 |
| FFA       | 1E ✓   | 13              | 14.5 | 55  | 41 | 12 | 12 |
| FFA       | 2E ✓   | 16              | 17.0 | 65  | 49 | 15 | 15 |
| FFA       | 3E ✓   | 19              | 22.0 | 80  | 60 | 19 | 19 |
| FFA       | 4E ✓   | 25              | 36.0 | 105 | 84 | 30 | 32 |



**Note:** the fitting of oversize collets onto this model allows them to be fitted to the cables that can be accommodated by the next housing size up

#### FFA Straight plug, cable collet and nut for fitting a bend relief – watertight

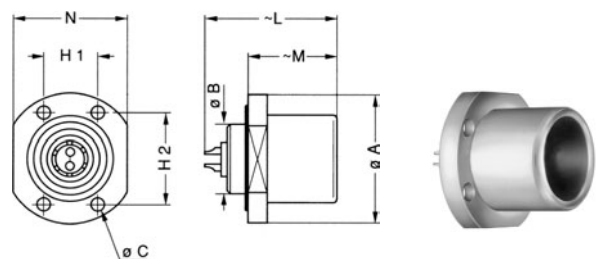
| Reference |        | Dimensions (mm) |    |      |    |
|-----------|--------|-----------------|----|------|----|
| Model     | Series | A               | L  | M    | S2 |
| FFA       | 0E ✓   | 11              | 34 | 23.0 | 7  |
| FFA       | 1E ✓   | 13              | 42 | 28.0 | 9  |
| FFA       | 2E ✓   | 16              | 52 | 36.0 | 12 |
| FFA       | 3E ✓   | 19              | 60 | 40.0 | 15 |
| FFA       | 4E ✓   | 25              | 71 | 50.5 | 19 |



**Note:** the bend relief must be ordered separately (see page 80)

#### EBR Fixed socket with round flange, watertight, protruding shell and screw fixing

| Reference |        | Dimensions (mm) |    |     |      |      |      |      |    |    |
|-----------|--------|-----------------|----|-----|------|------|------|------|----|----|
| Model     | Series | A               | B  | C   | H1   | H2   | L    | L'   | M  | N  |
| EBR       | 2E ✓   | 28              | 19 | 2.8 | 11.8 | 20.4 | 32.5 | 28.0 | 19 | 15 |



**Note:** this model is only available in a watertight version  
 1 unipole model

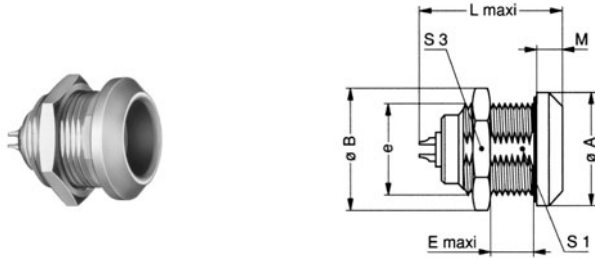
✓ Bei Lemo vorhanden | available at Lemo

# HOCHSPANNUNGSFEST | HIGH VOLTAGE FIRM

## BAUFORM E-SERIE | MODEL E-SERIES



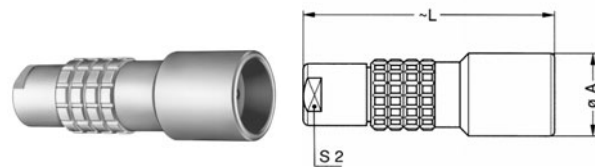
### ERA Fixed socket, nut fixing – watertight



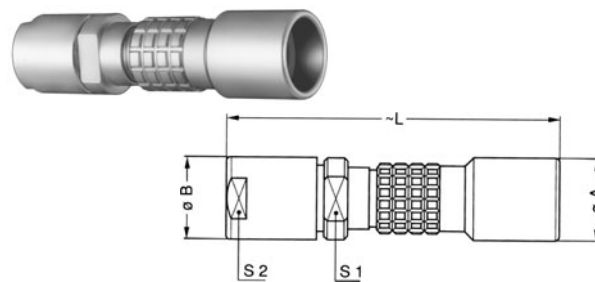
| Reference |        | Dimensions (mm) |      |         |      |      |      |     |      |    |
|-----------|--------|-----------------|------|---------|------|------|------|-----|------|----|
| Model     | Series | A               | B    | e       | E    | L    | L'   | M   | S1   | S3 |
| ERA       | 0E ✓   | 18              | 19.5 | M14x1.0 | 7.0  | 19.5 | 20.5 | 4.0 | 12.5 | 17 |
| ERA       | 1E ✓   | 20              | 21.5 | M16x1.0 | 9.0  | 24.0 | 25.3 | 4.5 | 14.5 | 19 |
| ERA       | 2E ✓   | 25              | 27.5 | M20x1.0 | 9.0  | 28.5 | 30.0 | 5.0 | 18.5 | 24 |
| ERA       | 3E ✓   | 31              | 34.5 | M24x1.0 | 11.0 | 34.0 | 35.0 | 6.0 | 22.5 | 30 |
| ERA       | 4E ✓   | 37              | 41.5 | M30x1.0 | 9.0  | 36.0 | 38.0 | 6.5 | 28.5 | 36 |
| ERA       | 5E ✓   | 55              | 54.0 | M45x1.5 | 10.0 | 44.5 | 78.0 | 9.0 | 42.5 | -  |

**Note:** the 5E series is delivered with a tapered washer and a round nut  
 1 unipole model

### PCA Free socket, cable collet – watertight



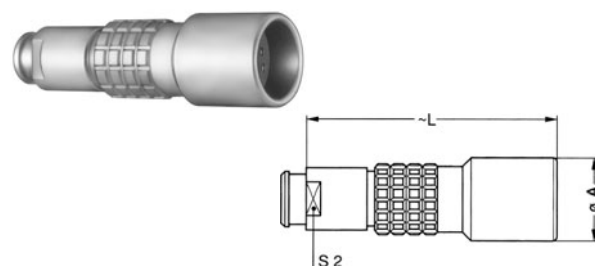
| Reference |        | Dimensions (mm) |      |    |
|-----------|--------|-----------------|------|----|
| Model     | Series | A               | L    | S2 |
| PCA       | 0E     | 13              | 34.0 | 8  |
| PCA       | 1E ✓   | 15              | 45.0 | 9  |
| PCA       | 2E ✓   | 19              | 54.0 | 12 |
| PCA       | 3E     | 23              | 65.0 | 15 |
| PCA       | 4E ✓   | 29              | 75.5 | 19 |
| PCA       | 5E     | 42              | 95.0 | 32 |



### PCA Free socket with oversize cable collet – watertight

| Reference |        | Dimensions (mm) |      |     |    |    |
|-----------|--------|-----------------|------|-----|----|----|
| Model     | Series | A               | B    | L   | S1 | S2 |
| PCA       | 1E ✓   | 15              | 14.5 | 58  | 12 | 12 |
| PCA       | 2E ✓   | 19              | 17.0 | 67  | 15 | 15 |
| PCA       | 3E ✓   | 23              | 22.0 | 84  | 19 | 19 |
| PCA       | 4E ✓   | 29              | 36.0 | 109 | 30 | 32 |

**Note:** the fitting of oversize collets onto this model allows them to be fitted to the cables that can be accommodated by the next housing size up



### PCA Free socket, cable collet and nut for fitting a bend relief – watertight

| Reference |        | Dimensions (mm) |      |    |
|-----------|--------|-----------------|------|----|
| Model     | Series | A               | L    | S2 |
| PCA       | 0E ✓   | 13              | 34.0 | 7  |
| PCA       | 1E ✓   | 15              | 45.0 | 9  |
| PCA       | 2E ✓   | 19              | 54.0 | 12 |
| PCA       | 3E ✓   | 23              | 64.0 | 15 |
| PCA       | 4E ✓   | 29              | 75.5 | 19 |

**Note:** the bend relief must be ordered separately (see page 80)



Part number example see page 3



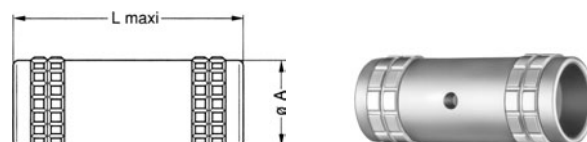
## HOCHSPANNUNGSFEST | HIGH VOLTAGE FIRM

### BAUFORM E-SERIE | MODEL E-SERIES

#### RMA Free coupler – watertight

| Reference |        | Dimensions (mm) |    |
|-----------|--------|-----------------|----|
| Model     | Series | A               | L  |
| RMA       | 0E ✓   | 14              | 30 |
| RMA       | 1E ✓   | 16              | 40 |
| RMA       | 2E ✓   | 20              | 44 |
| RMA       | 3E     | 25              | 54 |
| RMA       | 4E ✓   | 30              | 57 |
| RMA       | 5E     | 44              | 67 |

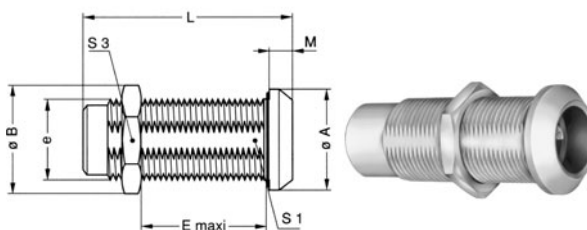
**Note:** see page 26 for the available plug and contact configurations and in order to ensure correct contact alignment



#### SWH Fixed coupler, nut fixing, watertight and vacuumtight

| Reference |        | Dimensions (mm) |      |         |    |      |     |      |    |
|-----------|--------|-----------------|------|---------|----|------|-----|------|----|
| Model     | Series | A               | B    | e       | E  | L    | M   | S1   | S3 |
| SWH       | 0E     | 18              | 19.5 | M14x1.0 | 21 | 36.0 | 4.0 | 12.5 | 17 |
| SWH       | 1E ✓   | 20              | 21.5 | M16x1.0 | 29 | 47.0 | 4.5 | 14.5 | 19 |
| SWH       | 2E     | 25              | 27.5 | M20x1.0 | 28 | 52.5 | 5.0 | 18.5 | 24 |
| SWH       | 3E     | 31              | 34.5 | M24x1.0 | 33 | 64.0 | 6.0 | 22.5 | 30 |
| SWH       | 4E     | 37              | 41.5 | M30x1.0 | 43 | 70.0 | 6.5 | 28.5 | 36 |
| SWH       | 5E ✓   | 55              | 54.0 | M45x1.5 | 45 | 81.0 | 9.0 | 42.5 | -  |

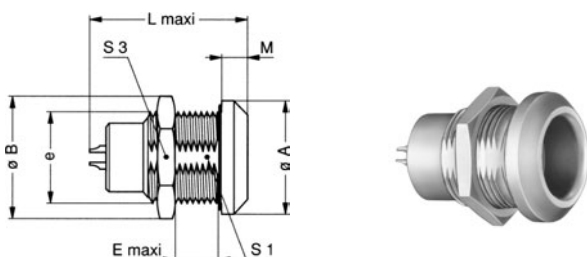
**Note:** The 5E series are delivered with a round nut. See page 26 for the available plug and contact configurations and in order to ensure correct contact alignment.



#### HGP Fixed socket, nut fixing, watertight and vacuumtight

| Reference |        | Dimensions (mm) |      |         |      |      |      |     |      |    |
|-----------|--------|-----------------|------|---------|------|------|------|-----|------|----|
| Model     | Series | A               | B    | e       | E    | L    | L'   | M   | S1   | S3 |
| HGP       | 0E     | 18              | 19.5 | M14x1.0 | 7.0  | 23.5 | 22.0 | 4.0 | 12.5 | 17 |
| HGP       | 1E     | 20              | 21.5 | M16x1.0 | 9.0  | 28.0 | 28.0 | 4.5 | 14.5 | 19 |
| HGP       | 2E     | 25              | 27.5 | M20x1.0 | 10.5 | 32.5 | 28.0 | 5.0 | 18.5 | 24 |
| HGP       | 3E     | 31              | 34.5 | M24x1.0 | 15.5 | 39.5 | 38.5 | 6.0 | 22.5 | 30 |
| HGP       | 4E ✓   | 37              | 41.5 | M30x1.0 | 17.5 | 43.0 | 44.0 | 6.5 | 28.5 | 36 |
| HGP       | 5E ✓   | 55              | 54.0 | M45x1.5 | 20.0 | 52.0 | 76.0 | 9.0 | 42.5 | -  |

**Note:** the 5E series are delivered with a round nut  
' unipole model



**HOCHSPANNUNGSFEST | HIGH VOLTAGE FIRM**
**KONTAKTFIGURATION SERIE S+E | CONTACTFIGURATION SERIES S+E**


| Soldersided seen                                                                   |                                                                                     | Order-No. | Size | Impedance | Contact-ø | Max. conductor-ø | Valid current | Supply voltage<br>U <sub>s</sub> (kV dc) |     | Test voltage<br>U <sub>e</sub> (kV dc) |           | Cable-order-no. | Type of insulation | Delivery time |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------|------|-----------|-----------|------------------|---------------|------------------------------------------|-----|----------------------------------------|-----------|-----------------|--------------------|---------------|
| Male contact                                                                       | Female contact                                                                      |           |      |           |           |                  |               |                                          |     |                                        |           |                 |                    |               |
|    |    | 403       | 0    | -         | 0.9       | 0.8              | 4             | -                                        | 4   | -                                      | 6         | RG-174A/U       | high voltage       | ●             |
|    |    | 405       | 1    | -         | 1.35      | 1.1              | 8             | -                                        | 7   | -                                      | 10.5      | 106 330         | high voltage       | ●             |
|    |    | 405X      | 1    | -         | 1.35      | 1.1              | 10            | -                                        | 7   | -                                      | 10.5      | 106 330         | high voltage       | ●             |
|    |    | 408       | 2    | -         | 2         | 1.8              | 10            | -                                        | 8   | -                                      | 12.0      | 130 660         | high voltage       | ●             |
|    |    | 408X      | 2    | -         | 2         | 1.8              | 10            | -                                        | 8   | -                                      | 12.0      | 130 660         | high voltage       | ●             |
|   |   | 405       | 3    | -         | 4         | 3.5              | 15            | -                                        | 7   | -                                      | 10.6      | 130 660         | high voltage       | ●             |
|  |  | 410       | 3    | -         | 2         | 1.8              | 10            | -                                        | 10  | -                                      | 15.0      | 130 660         | high voltage       | ●             |
|  |  | 410X      | 3    | -         | 2         | 1.8              | 6             | -                                        | 10  | -                                      | 15.0      | 130 660         | high voltage       | ●             |
|  |  | 415       | 3    | -         | 1.3       | 1.0              | 8             | -                                        | 15  | -                                      | 21.0      | 130 660         | high voltage       | ●             |
|  |  | 415X      | 3    | -         | 1.3       | 1.0              | 2             | -                                        | 15  | -                                      | 21.0      | 210 440         | high voltage       | ●             |
|  |  | 432       | 3    | -         | 1.3       | 1.0              | 3             | 3                                        | 3   | 4.5 <sup>1</sup><br>8                  | 4.5<br>8  | on request      | high voltage       | ●             |
|  |  | 410       | 4    | -         | 2.5       | 3.2              | 12            | -                                        | 10  | -                                      | 15        | on request      | high voltage       | ●             |
|  |  | 433       | 4    | -         | 2         | 1.8              | 14            | 2.1                                      | 3   | 3.1 <sup>1</sup><br>8                  | 4.5<br>8  | on request      | high voltage       | ●             |
|  |  | 434       | 4    | -         | 2         | 1.8              | 14            | 2.1                                      | 3   | 3.1 <sup>1</sup><br>8                  | 4.5<br>8  | on request      | high voltage       | ●             |
|  |  | 442       | 4    | -         | 1.3       | 1                | 14            | 3.5                                      | 5.0 | 5.2 <sup>1</sup><br>14                 | 7.5<br>14 | on request      | high voltage       | ●             |



| Impedance | Contact-ø | Max. conductor-ø | Valid current | Supply voltage<br>U <sub>s</sub> (kV dc) |     | Test voltage<br>U <sub>e</sub> (kV dc) |            | Cable-order-no. | Type of insulation | Delivery time |
|-----------|-----------|------------------|---------------|------------------------------------------|-----|----------------------------------------|------------|-----------------|--------------------|---------------|
| Ω         | mm        | mm               | A             | K-K                                      | K-M | K-K                                    | K-M        |                 |                    |               |
| -         | 2         | 1.8              | 20            | 3.5                                      | 5.0 | 5.2 <sup>1</sup><br>14                 | 7.5<br>14  | on request      | high voltage       | ○             |
| -         | 2         | 1.8              | 18            | 2.1                                      | 3.0 | 3.1 <sup>1</sup><br>14                 | 10.5<br>14 | on request      | high voltage       | ○             |
| -         | 2         | 1.8              | 20            | 3.5                                      | 5.0 | 5.2 <sup>1</sup><br>14                 | 7.5<br>14  | on request      | high voltage       | ○             |
| -         | 2         | 1.8              | 18            | 3.5                                      | 5.0 | 5.2 <sup>1</sup><br>14                 | 7.5<br>14  | on request      | high voltage       | ○             |

**Note:** <sup>1</sup> Test nach CEI 130.1 § 14.5b  $U_s = \frac{U_0}{1,5}$

# HOCHSPANNUNGSFEST | HIGH VOLTAGE FIRM

## KONFEKTIONIERUNGSANLEITUNG | ASSEMBLING INSTRUCTIONS



| Reference |      |       | Contact<br>ø (mm) | Unisolated length (mm) |      |      |
|-----------|------|-------|-------------------|------------------------|------|------|
| Series    | Type | Cable |                   | A                      | B    | C    |
| 0S/0E     | 403  | HS    | 0.9               | 4.0                    | 6.0  | 9.0  |
| 0S/0E     | 403X | HS    | 0.9               | 4.0                    | 6.0  | 9.0  |
| 1S/1E     | 405  | HS    | 1.35              | 5.0                    | 10.5 | 14.0 |
| 1S/1E     | 405X | HS    | 1.35              | 5.0                    | 10.5 | 14.0 |
| 2S/2E     | 408  | HS    | 2.0               | 7.0                    | 14.0 | 18.0 |
| 2S/2E     | 408X | HS    | 2.0               | 7.0                    | 14.0 | 18.0 |
| 3S/3E     | 405  | HS    | 4.0               | 6.5                    | 12.0 | 17.0 |
| 3S/3E     | 405X | HS    | 4.0               | 6.5                    | 12.0 | 17.0 |
| 3S/3E     | 410  | HS    | 2.0               | 7.5                    | 19.0 | 24.0 |
| 3S/3E     | 410X | HS    | 2.0               | 7.5                    | 19.0 | 24.0 |
| 3S/3E     | 415  | HS    | 1.3               | 6.5                    | 27.0 | 32.0 |
| 3S/3E     | 415X | HS    | 1.3               | 6.5                    | 27.0 | 32.0 |
| 4S/4E     | 410  | HS    | 2.5               | 10.0                   | 20.0 | 26.0 |
| 4S/4E     | 410X | HS    | 2.5               | 10.0                   | 20.0 | 26.0 |

**Note:** The dimensions are standard values and may vary depending on the cable quality.

Die Abmessungen sind Richtwerte und können sich je nach Kabelqualität ändern.

Technische Informationen, Zubehörteile und Werkzeuge siehe Unipole/Multipole Katalog.  
Technical Informations, Accessories and Tools see Unipole/Multipole Catalogue.

The background of the entire page is a solid blue color. At the top, there is a white technical line drawing of a connector assembly, showing various components like pins, sockets, and a grid-like structure. A white lightning bolt graphic starts from the top right and extends downwards, passing through the center of the page. In the middle of the page, there is a white-bordered square containing a semi-circular arc at the top, with a lightning bolt striking the center of the arc. A white arrow points from the bottom right towards the center of the arc. Below the arc, a large white letter 'A' is centered. At the bottom of the page, there is white text in a bold, sans-serif font.

**Steckverbindungen**  
**Connectors**  
**Kontaktfiguration**  
**Contactfiguration**  
**Konfektionierungsanleitung**  
**Assembling Instructions**

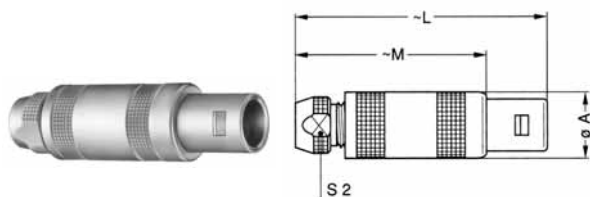


**EINPOLIG HOCHSTROM**  
**UNIPOLE HIGH CURRENT**

# EINPOLIG / HOCHSTROM | UNIPOLE / HIGH CURRENT BAUFORM S-SERIE | MODEL S-SERIES



## FFA Straight plug, cable collet



| Reference |        | Dimensions (mm) |       |      |      |
|-----------|--------|-----------------|-------|------|------|
| Model     | Series | A               | L     | M    | S2   |
| FFA       | 00 ✓   | 6.4             | 26.0  | 18.0 | 4.5  |
| FFA       | 0S ✓   | 9.0             | 34.5  | 24.5 | 6.5  |
| FFA       | 1S ✓   | 12.0            | 42.5  | 31.5 | 8.5  |
| FFA       | 2S ✓   | 14.8            | 52.0  | 40.0 | 11.0 |
| FFA       | 3S ✓   | 17.8            | 61.0  | 46.0 | 14.0 |
| FFA       | 4S ✓   | 24.8            | 77.0  | 59.0 | 19.0 |
| FFA       | 5S ✓   | 35.1            | 103.0 | 78.0 | 29.0 |

## FFA Straight plug with oversize cable collet



| Reference |        | Dimensions (mm) |      |       |       |      |      |
|-----------|--------|-----------------|------|-------|-------|------|------|
| Model     | Series | A               | B    | L     | M     | S1   | S2   |
| FFA       | 00 ✓   | 6.4             | 8.0  | 34.0  | 26.0  | 7.0  | 6.5  |
| FFA       | 0S ✓   | 9.0             | 10.0 | 45.5  | 35.5  | 9.0  | 8.5  |
| FFA       | 1S ✓   | 12.0            | 13.0 | 57.0  | 46.0  | 12.0 | 11.0 |
| FFA       | 2S ✓   | 14.8            | 18.0 | 67.0  | 55.0  | 14.0 | 14.0 |
| FFA       | 3S ✓   | 17.8            | 21.0 | 85.0  | 70.0  | 19.0 | 19.0 |
| FFA       | 4S ✓   | 24.8            | 31.8 | 107.0 | 89.0  | 28.5 | 29.0 |
| FFA       | 5S ✓   | 35.1            | 41.8 | 138.0 | 113.0 | 37.5 | 38.0 |

**Note:** the fitting of oversize collets onto this model allows them to be fitted to the cables that can be accommodated by the next housing size up

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



| Reference |        | Dimensions (mm) |      |      |    |
|-----------|--------|-----------------|------|------|----|
| Model     | Series | A               | L    | M    | S2 |
| FFA       | 00 ✓   | 6.4             | 26.0 | 18.0 | 6  |
| FFA       | 0S ✓   | 9.0             | 34.5 | 24.5 | 7  |
| FFA       | 1S ✓   | 12.0            | 42.5 | 31.5 | 9  |
| FFA       | 2S ✓   | 14.8            | 52.0 | 40.0 | 12 |
| FFA       | 3S ✓   | 17.8            | 61.0 | 46.0 | 14 |
| FFA       | 4S ✓   | 24.8            | 77.0 | 59.0 | 20 |

**Note:** the bend relief must be ordered separately (see page 80)



Part number example see page 3



## EINPOLIG / HOCHSTROM | UNIPOLE / HIGH CURRENT

### BAUFORM S-SERIE | MODEL S-SERIES

#### FFP Straight plug, cable collet and inner anti-rotating device

| Reference |        | Dimensions (mm) |      |      |      |
|-----------|--------|-----------------|------|------|------|
| Model     | Series | A               | L    | M    | S2   |
| FFP       | 0S     | 9.0             | 34.5 | 24.5 | 6.5  |
| FFP       | 1S     | 12.0            | 42.5 | 31.5 | 8.5  |
| FFP       | 2S     | 14.8            | 52.0 | 40.0 | 11.0 |
| FFP       | 3S ✓   | 17.8            | 61.0 | 46.0 | 14.0 |
| FFP       | 4S     | 24.8            | 77.0 | 59.0 | 19.0 |



#### FFB Straight plug, cable collet and safety locking ring

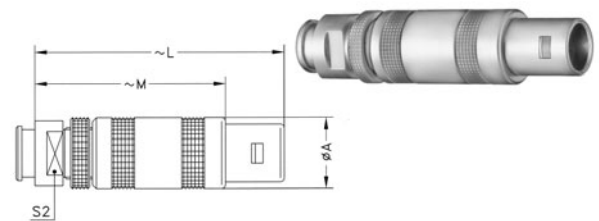
| Reference |        | Dimensions (mm) |      |      |      |
|-----------|--------|-----------------|------|------|------|
| Model     | Series | A               | L    | M    | S2   |
| FFB       | 0S     | 9.0             | 36.8 | 26.8 | 6.5  |
| FFB       | 1S ✓   | 12.0            | 45.0 | 34.0 | 8.5  |
| FFB       | 2S     | 14.8            | 55.5 | 43.5 | 11.0 |
| FFB       | 3S ✓   | 17.8            | 65.0 | 50.0 | 14.0 |



#### FFB Straight plug, cable collet and safety locking ring and nut for fitting a bend relief

| Reference |        | Dimensions (mm) |      |      |    |
|-----------|--------|-----------------|------|------|----|
| Model     | Series | A               | L    | M    | S2 |
| FFB       | 0S     | 9.0             | 36.8 | 26.8 | 7  |
| FFB       | 1S ✓   | 12.0            | 45.0 | 34.0 | 9  |
| FFB       | 2S     | 14.8            | 55.5 | 43.5 | 12 |
| FFB       | 3S     | 17.8            | 65.0 | 50.0 | 14 |

**Note:** series 0S, 2S and 3S are available on request  
the bend relief must be ordered separately (see page 80)

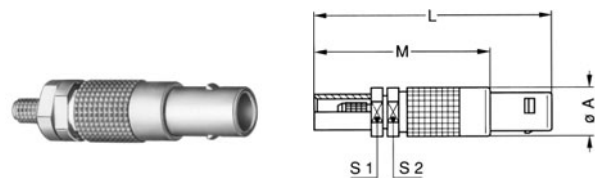


#### FFF Straight plug, non-latching, cable collet

| Reference |        | Dimensions (mm) |      |      |      |
|-----------|--------|-----------------|------|------|------|
| Model     | Series | A               | L    | M    | S2   |
| FFF       | 00 ✓   | 6.4             | 26.0 | 18.0 | 4.5  |
| FFF       | 0S ✓   | 9.0             | 34.5 | 24.5 | 6.5  |
| FFF       | 1S     | 12.0            | 42.5 | 31.5 | 8.5  |
| FFF       | 2S     | 14.8            | 52.0 | 40.0 | 11.0 |

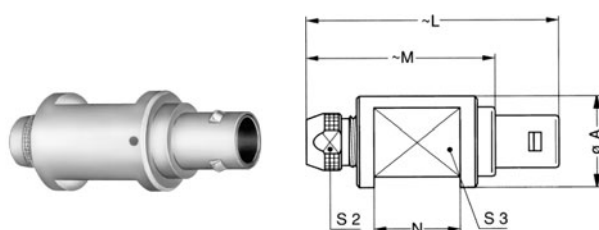


# EINPOLIG / HOCHSTROM | UNIPOLE / HIGH CURRENT BAUFORM S-SERIE | MODEL S-SERIES



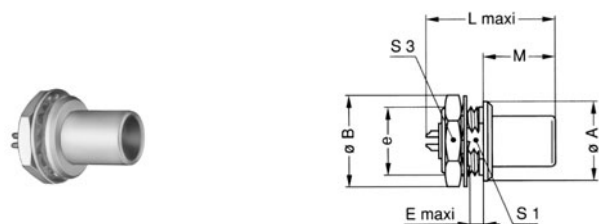
## FFS Straight plug for cable crimping

| Reference |        | Dimensions (mm) |    |    |     |     |
|-----------|--------|-----------------|----|----|-----|-----|
| Model     | Series | A               | L  | M  | S1  | S2  |
| FFS       | 00 ✓   | 6.4             | 31 | 23 | 5.5 | 5.5 |



## FZP Straight plug for remote handling, cable collet and inner anti-rotating device

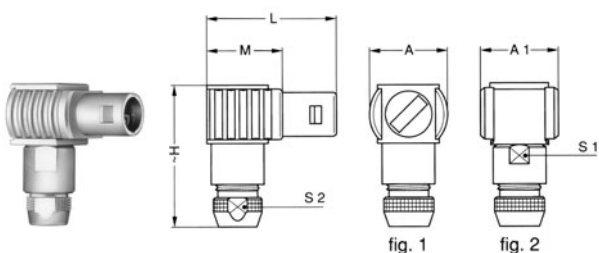
| Reference |        | Dimensions (mm) |       |      |    |      |    |
|-----------|--------|-----------------|-------|------|----|------|----|
| Model     | Series | A               | L     | M    | N  | S2   | S3 |
| FZP       | 1S     | 16              | 42.5  | 31.5 | 15 | 8.5  | 12 |
| FZP       | 2S     | 24              | 52.0  | 40.0 | 21 | 11.0 | 18 |
| FZP       | 3S     | 24              | 61.0  | 46.0 | 24 | 14.0 | 18 |
| FZP       | 4S     | 35              | 77.0  | 59.0 | 30 | 19.0 | 28 |
| FZP       | 5S ✓   | 43              | 103.0 | 78.0 | 44 | 29.0 | 35 |



## FAA Fixed plug non-latching, nut fixing

| Reference |        | Dimensions (mm) |      |         |     |      |      |      |      |    |
|-----------|--------|-----------------|------|---------|-----|------|------|------|------|----|
| Model     | Series | A               | B    | e       | E   | L    | L'   | M    | S1   | S3 |
| FAA       | 00 ✓   | 8               | 10.3 | M7x0.5  | 2.0 | -    | 15.5 | 9.0  | 6.3  | 9  |
| FAA       | 0S ✓   | 10              | 12.5 | M9x0.6  | 2.0 | 18.5 | 18.0 | 11.2 | 8.2  | 11 |
| FAA       | 1S ✓   | 14              | 16.0 | M12x1.0 | 2.5 | 22.5 | 21.7 | 12.5 | 10.5 | 14 |
| FAA       | 2S ✓   | 18              | 19.5 | M15x1.0 | 4.0 | 25.0 | 25.3 | 13.8 | 13.5 | 17 |
| FAA       | 3S ✓   | 22              | 25.2 | M18x1.0 | 4.0 | 31.0 | 29.0 | 17.0 | 16.5 | 22 |
| FAA       | 4S     | 28              | 32.0 | M25x1.0 | 2.5 | 35.5 | 39.0 | 20.5 | 23.5 | 30 |
| FAA       | 5S     | 40              | 40.0 | M35x1.0 | 2.5 | 45.0 | -    | 28.0 | 33.5 | -  |

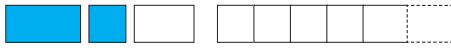
Note: <sup>1</sup> unipole model



## FLA Elbow (90°) plug, cable collet

| Reference |        | Dimensions (mm) |    |      |      |      |    |      |
|-----------|--------|-----------------|----|------|------|------|----|------|
| Model     | Series | A               | A1 | H    | L    | M    | S1 | S2   |
| FLA       | 00 ✓   | 9               | -  | 16.0 | 17.5 | 9.5  | -  | 4.5  |
| FLA       | 0S ✓   | 13              | 13 | 24.5 | 23.0 | 13.0 | 8  | 6.5  |
| FLA       | 1S ✓   | 16              | 16 | 28.5 | 26.5 | 15.5 | 10 | 8.5  |
| FLA       | 2S ✓   | 20              | 20 | 37.0 | 31.0 | 19.0 | 13 | 11.0 |
| FLA       | 3S ✓   | 21              | 21 | 44.0 | 38.5 | 23.5 | 15 | 14.0 |
| FLA       | 4S ✓   | 28              | 28 | 56.0 | 49.0 | 31.0 | 20 | 19.0 |
| FLA       | 5S     | -               | 37 | 76.5 | 65.0 | 40.0 | 30 | 29.0 |

Note: fig.1 is used for the unipole type, fig.2 is used for the multipole type



Part number example see page 3

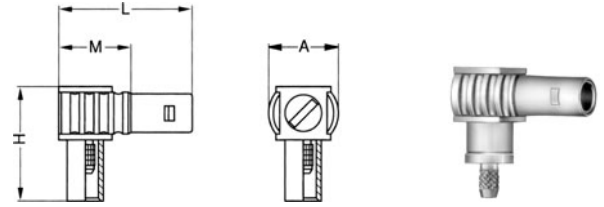


## EINPOLIG / HOCHSTROM | UNIPOLE / HIGH CURRENT

### BAUFORM S-SERIE | MODEL S-SERIES

#### FLS Elbow (90°) plug for cable crimping

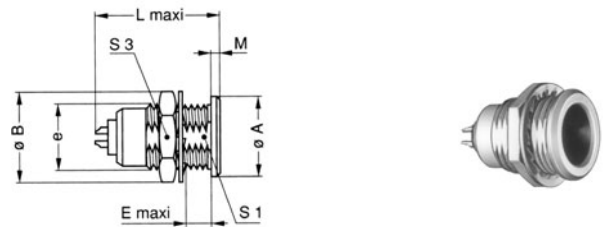
| Reference |        | Dimensions (mm) |    |      |     |
|-----------|--------|-----------------|----|------|-----|
| Model     | Series | A               | H  | L    | M   |
| FLS       | 00 ✓   | 9               | 16 | 17.5 | 9.5 |



#### ERA Fixed socket, nut fixing

| Reference |        | Dimensions (mm) |      |         |      |      |      |     |      |    |
|-----------|--------|-----------------|------|---------|------|------|------|-----|------|----|
| Model     | Series | A               | B    | e       | E    | L    | L'   | M   | S1   | S3 |
| ERA       | 00 ✓   | 8               | 10.3 | M7x0.5  | 5.5  | -    | 15.2 | 1.0 | 6.3  | 9  |
| ERA       | 0S ✓   | 10              | 12.5 | M9x0.6  | 7.0  | 17.5 | 18.5 | 1.2 | 8.2  | 11 |
| ERA       | 1S ✓   | 14              | 16.0 | M12x1.0 | 7.5  | 20.2 | 21.5 | 1.5 | 10.5 | 14 |
| ERA       | 2S ✓   | 18              | 19.5 | M15x1.0 | 8.5  | 24.5 | 26.0 | 1.8 | 13.5 | 17 |
| ERA       | 3S ✓   | 22              | 25.2 | M18x1.0 | 11.5 | 29.0 | 30.0 | 2.0 | 16.5 | 22 |
| ERA       | 4S ✓   | 28              | 32.0 | M25x1.0 | 12.0 | 34.0 | 36.0 | 2.5 | 23.5 | 30 |
| ERA       | 5S ✓   | 40              | 40.0 | M35x1.0 | 15.5 | 45.0 | 78.5 | 3.0 | 33.5 | -  |

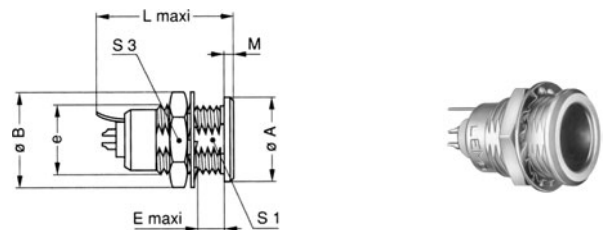
**Note:** the 5S series is delivered with a tapered washer and a round nut  
 ' unipole model



#### ERN Fixed socket, nut fixing, with earthing tag

| Reference |        | Dimensions (mm) |      |         |      |      |      |     |      |    |
|-----------|--------|-----------------|------|---------|------|------|------|-----|------|----|
| Model     | Series | A               | B    | e       | E    | L    | L'   | M   | S1   | S3 |
| ERN       | 0S ✓   | 10              | 12.5 | M9x0.6  | 7.0  | 19.3 | 19.3 | 1.2 | 8.2  | 11 |
| ERN       | 1S ✓   | 14              | 16.0 | M12x1.0 | 7.5  | 23.0 | 23.0 | 1.5 | 10.5 | 14 |
| ERN       | 2S     | 18              | 19.5 | M15x1.0 | 8.5  | 26.3 | 26.3 | 1.8 | 13.5 | 17 |
| ERN       | 3S ✓   | 22              | 25.2 | M18x1.0 | 11.5 | 29.8 | 30.0 | 2.0 | 16.5 | 22 |

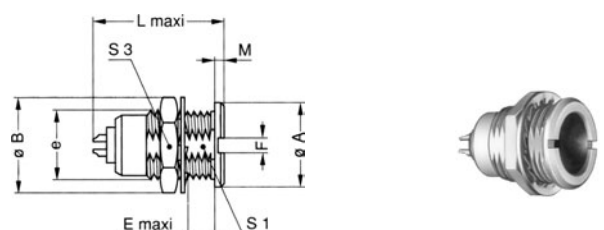
**Note:** ' unipole model



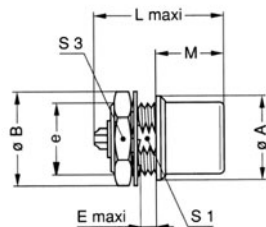
#### ERC Fixed socket, nut fixing with slot in the flange

| Reference |        | Dimensions (mm) |      |         |     |     |      |      |     |      |    |
|-----------|--------|-----------------|------|---------|-----|-----|------|------|-----|------|----|
| Model     | Series | A               | B    | e       | E   | F   | L    | L¹   | M   | S1   | S3 |
| ERC       | 00 ✓   | 8               | 10.3 | M7x0.5  | 5.5 | 1.6 | -    | 15.1 | 1.0 | 6.3  | 9  |
| ERC       | 0S     | 10              | 12.5 | M9x0.6  | 7.0 | 2.0 | 17.5 | 18.5 | 1.2 | 8.2  | 11 |
| ERC       | 1S     | 14              | 16.0 | M12x1.0 | 7.5 | 2.5 | 20.2 | 21.5 | 1.5 | 10.5 | 14 |

**Note:** ' unipole model



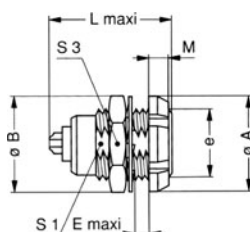
# EINPOLIG / HOCHSTROM | UNIPOLE / HIGH CURRENT BAUFORM S-SERIE | MODEL S-SERIES



## EHP Fixed socket, nut fixing, protruding shell

| Reference |        | Dimensions (mm) |      |         |     |      |      |      |     |    |
|-----------|--------|-----------------|------|---------|-----|------|------|------|-----|----|
| Model     | Series | A               | B    | e       | E   | L    | L'   | M    | S1  | S3 |
| EHP       | 0S ✓   | 10              | 12.5 | M9x0.6  | 2.5 | 17.5 | 18.5 | 12.5 | 8.2 | 11 |
| EHP       | 1S     | 14              | 16.0 | M12x1.0 | 3.5 | 20.2 | 21.5 | 12.0 | -   | 14 |
| EHP       | 3S ✓   | 22              | 25.2 | M18x1.0 | 4.0 | 29.0 | 30.0 | 18.7 | -   | 22 |

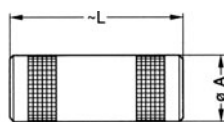
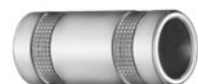
**Note:** <sup>1</sup> unipole model



## ERD Fixed socket with two nuts (back panel mounting)

| Reference |        | Dimensions (mm) |      |         |      |      |      |     |      |    |
|-----------|--------|-----------------|------|---------|------|------|------|-----|------|----|
| Model     | Series | A               | B    | e       | E    | L    | L'   | M   | S1   | S3 |
| ERD       | 0S ✓   | 12              | 12.5 | M9x0.6  | 5.5  | 17.5 | 18.5 | 2.5 | 8.2  | 11 |
| ERD       | 1S ✓   | 16              | 16.0 | M12x1.0 | 6.0  | 20.2 | 21.5 | 3.5 | 10.5 | 14 |
| ERD       | 2S ✓   | 20              | 19.5 | M15x1.0 | 6.5  | 24.5 | 26.0 | 3.5 | 13.5 | 17 |
| ERD       | 3S     | 24              | 25.2 | M18x1.0 | 9.0  | 29.0 | 30.0 | 4.5 | 16.5 | 22 |
| ERD       | 4S     | 30              | 32.0 | M25x1.0 | 10.0 | 34.0 | 36.0 | 4.5 | 23.5 | 30 |

**Note:** the 3S and 4S series are delivered with a conical nut  
<sup>1</sup> unipole model



## RMA Free coupler

| Reference |        | Dimensions (mm) |      |
|-----------|--------|-----------------|------|
| Model     | Series | A               | L    |
| RMA       | 00 ✓   | 6.4             | 22.0 |
| RMA       | 0S ✓   | 8.9             | 25.0 |
| RMA       | 1S     | 11.9            | 28.5 |
| RMA       | 2S     | 14.8            | 31.5 |
| RMA       | 3S ✓   | 17.8            | 38.5 |
| RMA       | 4S ✓   | 24.8            | 46.5 |
| RMA       | 5S     | 34.7            | 60.5 |

**Note:** see page 40 for the available plug and contact configurations and in order to ensure correct contact alignment



Part number example see page 3



## EINPOLIG / HOCHSTROM | UNIPOLE / HIGH CURRENT

### BAUFORM S-SERIE | MODEL S-SERIES

#### RAD Fixed coupler, nut fixing

| Reference |        | Dimensions (mm) |      |         |      |      |     |      |    |
|-----------|--------|-----------------|------|---------|------|------|-----|------|----|
| Model     | Series | A               | B    | e       | E    | L    | M   | S1   | S2 |
| RAD       | 00 ✓   | 8               | 10.3 | M7x0.5  | 5.5  | 22.0 | 1.0 | 6.3  | 9  |
| RAD       | 0S     | 10              | 12.5 | M9x0.6  | 7.0  | 25.0 | 1.2 | 8.2  | 11 |
| RAD       | 1S     | 14              | 16.0 | M12x1.0 | 7.5  | 28.5 | 1.5 | 10.5 | 14 |
| RAD       | 2S     | 18              | 19.5 | M15x1.0 | 8.5  | 31.5 | 1.8 | 13.5 | 17 |
| RAD       | 3S     | 22              | 25.2 | M18x1.0 | 11.5 | 38.5 | 2.0 | 16.5 | 22 |
| RAD       | 4S ✓   | 28              | 32.0 | M25x1.0 | 12.0 | 46.5 | 2.5 | -    | 30 |
| RAD       | 5S     | 40              | 40.0 | M35x1.0 | 15.5 | 60.5 | 3.0 | -    | -  |

**Note:** the 5S series is delivered with a tapered washer and a round nut  
see page 40 for the available plug and contact configurations and in order  
to ensure correct contact alignment



#### SWH Fixed coupler, nut fixing watertight or vacuumtight

| Reference |        | Dimensions (mm) |      |          |    |    |     |      |    |
|-----------|--------|-----------------|------|----------|----|----|-----|------|----|
| Model     | Series | A               | B    | e        | E  | L  | M   | S1   | S3 |
| SWH       | 0S ✓   | 14              | 13.8 | M10x0.75 | 17 | 34 | 2.0 | 9.0  | 12 |
| SWH       | 1S ✓   | 17              | 16.0 | M12x1.00 | 28 | 39 | 2.5 | 10.5 | 14 |
| SWH       | 2S ✓   | 20              | 21.8 | M16x1.00 | 25 | 44 | 4.0 | 15.0 | 19 |
| SWH       | 3S ✓   | 25              | 27.0 | M20x1.00 | 30 | 53 | 4.0 | 18.5 | 24 |
| SWH       | 4S ✓   | 34              | 32.0 | M25x1.00 | 50 | 65 | 4.0 | 23.5 | 30 |
| SWH       | 5S ✓   | 45              | 40.0 | M35x1.00 | 58 | 80 | 5.0 | 33.5 | -  |

**Note:** see page 40 for the available plug and contact configurations and in order  
to ensure correct contact alignment.  
The 5S series is delivered with a round nut.



#### PCA Free socket, cable collet

| Reference |        | Dimensions (mm) |      |      |
|-----------|--------|-----------------|------|------|
| Model     | Series | A               | L    | S2   |
| PCA       | 00 ✓   | 6.5             | 25.0 | 4.5  |
| PCA       | 0S ✓   | 8.9             | 33.5 | 6.5  |
| PCA       | 1S ✓   | 11.9            | 40.5 | 8.5  |
| PCA       | 2S     | 14.8            | 50.0 | 11.0 |
| PCA       | 3S ✓   | 17.8            | 59.0 | 14.0 |
| PCA       | 4S ✓   | 24.8            | 75.0 | 19.0 |
| PCA       | 5S     | 34.7            | 99.0 | 29.0 |



#### PCA Free socket with oversize cable collet

| Reference |        | Dimensions (mm) |      |       |      |      |
|-----------|--------|-----------------|------|-------|------|------|
| Model     | Series | A               | B    | L     | S1   | S2   |
| PCA       | 00 ✓   | 6.5             | 8.0  | 33.0  | 7.0  | 6.5  |
| PCA       | 0S ✓   | 8.9             | 10.0 | 44.5  | 9.0  | 8.5  |
| PCA       | 1S ✓   | 11.9            | 13.0 | 55.0  | 12.0 | 11.0 |
| PCA       | 2S ✓   | 14.8            | 18.0 | 65.0  | 14.0 | 14.0 |
| PCA       | 3S ✓   | 17.8            | 21.0 | 83.0  | 19.0 | 19.0 |
| PCA       | 4S ✓   | 24.8            | 31.8 | 105.0 | 28.5 | 29.0 |

**Note:** the fitting of oversize collets onto this model allows them to be fitted to  
the cables that can be accommodated by the next housing size up



| Reference |        | Dimensions (mm) |      |    |
|-----------|--------|-----------------|------|----|
| Model     | Series | A               | L    | S2 |
| PCA       | 00 ✓   | 6.5             | 25.0 | 6  |
| PCA       | 0S ✓   | 8.9             | 33.5 | 7  |
| PCA       | 1S ✓   | 11.9            | 40.5 | 9  |
| PCA       | 2S ✓   | 14.8            | 50.0 | 12 |
| PCA       | 3S ✓   | 17.8            | 59.0 | 14 |
| PCA       | 4S ✓   | 24.8            | 75.0 | 20 |

[illegible]

| Reference |        | Dimensions (mm) |      |         |      |      |     |      |      |    |
|-----------|--------|-----------------|------|---------|------|------|-----|------|------|----|
| Model     | Series | A               | B    | e       | E    | L    | M   | S1   | S2   | S3 |
| PSA       | 00 ✓   | 8               | 10.3 | M7x0.5  | 5.5  | 25.0 | 1.0 | 6.3  | 4.5  | 9  |
| PSA       | 0S ✓   | 10              | 12.5 | M9x0.6  | 7.0  | 33.5 | 1.2 | 8.2  | 6.5  | 11 |
| PSA       | 1S ✓   | 14              | 16.0 | M12x1.0 | 7.5  | 40.5 | 1.5 | 10.5 | 8.5  | 14 |
| PSA       | 2S ✓   | 18              | 19.5 | M15x1.0 | 8.5  | 50.0 | 1.8 | 13.5 | 11.0 | 17 |
| PSA       | 3S ✓   | 22              | 25.2 | M18x1.0 | 11.5 | 59.0 | 2.0 | 16.5 | 14.0 | 22 |
| PSA       | 4S ✓   | 28              | 32.0 | M25x1.0 | 12.0 | 75.0 | 2.5 | 23.5 | 19.0 | 30 |
| PSA       | 5S     | 40              | 40.0 | M35x1.0 | 15.5 | 99.0 | 3.0 | 33.5 | 29.0 | -  |

BAUFORM E-SERIE | MODEL E-SERIES

Technical drawing of a cable gland (S 2). The drawing includes a perspective view on the left and a side view on the right. The side view shows the following dimensions:

- $\sim L$ : Total length of the gland.
- $\sim M$ : Length of the mounting flange.
- $\varnothing A$ : Outer diameter of the mounting flange.

The side view also shows a cross-section of the gland, indicating the internal structure and the mounting flange.

| Reference |        | Dimensions (mm) |    |      |    |
|-----------|--------|-----------------|----|------|----|
| Model     | Series | A               | L  | M    | S2 |
| FFA       | 0E ✓   | 11              | 34 | 23.0 | 8  |
| FFA       | 1E ✓   | 13              | 42 | 28.0 | 9  |
| FFA       | 2E ✓   | 16              | 52 | 36.0 | 12 |
| FFA       | 3E ✓   | 19              | 61 | 41.0 | 15 |
| FFA       | 4E ✓   | 25              | 71 | 50.5 | 19 |
| FFA       | 5E ✓   | 38              | 92 | 67.0 | 32 |



Part number example see page 3



## EINPOLIG / HOCHSTROM | UNIPOLE / HIGH CURRENT

### BAUFORM E-SERIE | MODEL E-SERIES

#### FFA Straight plug with oversize cable collet – watertight

| Reference |        | Dimensions (mm) |      |     |    |    |    |
|-----------|--------|-----------------|------|-----|----|----|----|
| Model     | Series | A               | B    | L   | M  | S1 | S2 |
| FFA       | 1E ✓   | 13              | 14.5 | 55  | 41 | 12 | 12 |
| FFA       | 2E ✓   | 16              | 17.0 | 65  | 49 | 15 | 15 |
| FFA       | 3E ✓   | 19              | 22.0 | 80  | 60 | 19 | 19 |
| FFA       | 4E ✓   | 25              | 36.0 | 105 | 84 | 30 | 32 |

**Note:** the fitting of oversize collets onto this model allows them to be fitted to the cables that can be accommodated by the next housing size up



#### FFA Straight plug, cable collet and nut for fitting a bend relief – watertight

| Reference |        | Dimensions (mm) |    |      |    |
|-----------|--------|-----------------|----|------|----|
| Model     | Series | A               | L  | M    | S2 |
| FFA       | 0E ✓   | 11              | 34 | 23.0 | 7  |
| FFA       | 1E ✓   | 13              | 42 | 28.0 | 9  |
| FFA       | 2E ✓   | 16              | 52 | 36.0 | 12 |
| FFA       | 3E ✓   | 19              | 60 | 40.0 | 15 |
| FFA       | 4E ✓   | 25              | 71 | 50.5 | 19 |

**Note:** the bend relief must be ordered separately (see page 80)



#### FFF Straight plug non-latching, cable collet – watertight

| Reference |        | Dimensions (mm) |    |    |    |
|-----------|--------|-----------------|----|----|----|
| Model     | Series | A               | L  | M  | S2 |
| FFF       | 0E     | 11              | 34 | 23 | 8  |
| FFF       | 1E ✓   | 13              | 42 | 28 | 9  |

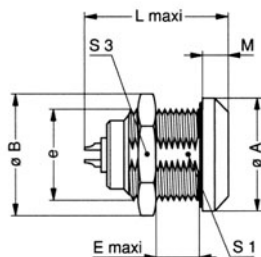


#### FLA Elbow (90°) plug, cable collet – watertight

| Reference |        | Dimensions (mm) |      |    |    |      |    |    |    |
|-----------|--------|-----------------|------|----|----|------|----|----|----|
| Model     | Series | A               | D    | H  | L  | M    | S1 | S2 | S3 |
| FLA       | 0E     | 11.5            | 7.6  | 27 | 36 | 25.0 | 10 | 8  | 8  |
| FLA       | 1E     | 14.0            | 8.8  | 33 | 43 | 29.0 | 12 | 9  | 10 |
| FLA       | 2E     | 17.5            | 10.5 | 40 | 51 | 35.0 | 15 | 12 | 13 |
| FLA       | 3E ✓   | 21.0            | 11.5 | 47 | 60 | 40.0 | 18 | 15 | 15 |
| FLA       | 4E     | 27.5            | 15.5 | 57 | 72 | 51.5 | 24 | 19 | 20 |



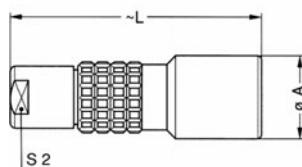
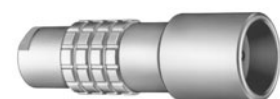
# EINPOLIG / HOCHSTROM | UNIPOLE / HIGH CURRENT BAUFORM E-SERIE | MODEL E-SERIES



## ERA Fixed socket, nut fixing – watertight

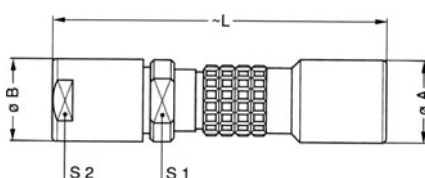
| Reference |        | Dimensions (mm) |      |         |    |      |      |     |      |    |
|-----------|--------|-----------------|------|---------|----|------|------|-----|------|----|
| Model     | Series | A               | B    | e       | E  | L    | L'   | M   | S1   | S3 |
| ERA       | 0E ✓   | 18              | 19.5 | M14x1.0 | 7  | 19.5 | 20.5 | 4.0 | 12.5 | 17 |
| ERA       | 1E ✓   | 20              | 21.5 | M16x1.0 | 9  | 24.0 | 25.3 | 4.5 | 14.5 | 19 |
| ERA       | 2E ✓   | 25              | 27.5 | M20x1.0 | 9  | 28.5 | 30.0 | 5.0 | 18.5 | 24 |
| ERA       | 3E ✓   | 31              | 34.5 | M24x1.0 | 11 | 34.0 | 35.0 | 6.0 | 22.5 | 30 |
| ERA       | 4E ✓   | 37              | 41.5 | M30x1.0 | 9  | 36.0 | 38.0 | 6.5 | 28.5 | 36 |
| ERA       | 5E ✓   | 55              | 54.0 | M45x1.5 | 10 | 44.5 | 78.0 | 9.0 | 42.5 | -  |

**Note:** the 5E series is delivered with a round nut  
 'unipole model



## PCA Free socket, cable collet – watertight

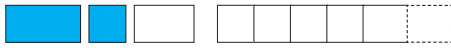
| Reference |        | Dimensions (mm) |      |    |
|-----------|--------|-----------------|------|----|
| Model     | Series | A               | L    | S2 |
| PCA       | 0E ✓   | 13              | 34.0 | 8  |
| PCA       | 1E ✓   | 15              | 45.0 | 9  |
| PCA       | 2E ✓   | 19              | 54.0 | 12 |
| PCA       | 3E ✓   | 23              | 65.0 | 15 |
| PCA       | 4E     | 29              | 75.5 | 19 |
| PCA       | 5E     | 42              | 95.0 | 32 |



## PCA Free socket with oversize cable collet – watertight

| Reference |        | Dimensions (mm) |      |     |    |    |
|-----------|--------|-----------------|------|-----|----|----|
| Model     | Series | A               | B    | L   | S1 | S2 |
| PCA       | 1E ✓   | 15              | 14.5 | 58  | 12 | 12 |
| PCA       | 2E ✓   | 19              | 17.0 | 67  | 15 | 15 |
| PCA       | 3E ✓   | 23              | 22.0 | 84  | 19 | 19 |
| PCA       | 4E ✓   | 29              | 36.0 | 109 | 30 | 32 |

**Note:** the fitting of oversize collets onto this model allows them to be fitted to the cables that can be accommodated by the next housing size up



Part number example see page 3



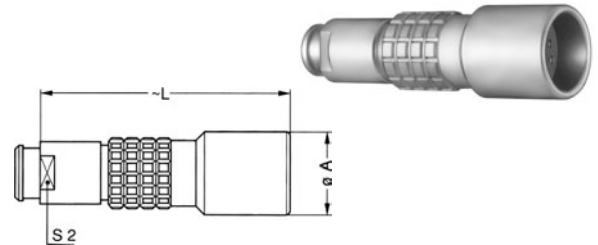
## EINPOLIG / HOCHSTROM | UNIPOLE / HIGH CURRENT

### BAUFORM E-SERIE | MODEL E-SERIES

**PCA** Free socket, cable collet and nut  
for fitting a bend relief – watertight

| Reference |        | Dimensions (mm) |      |    |
|-----------|--------|-----------------|------|----|
| Model     | Series | A               | L    | S2 |
| PCA       | 0E ✓   | 13              | 34.0 | 7  |
| PCA       | 1E ✓   | 15              | 45.0 | 9  |
| PCA       | 2E ✓   | 19              | 54.0 | 12 |
| PCA       | 3E ✓   | 23              | 64.0 | 15 |
| PCA       | 4E ✓   | 29              | 75.5 | 19 |

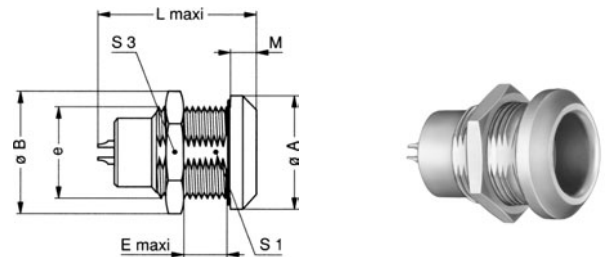
**Note:** the bend relief must be ordered separately (see page 80)



**HGP** Fixed socket, nut fixing, watertight and vacuumtight

| Reference |        | Dimensions (mm) |      |         |      |      |      |     |      |    |
|-----------|--------|-----------------|------|---------|------|------|------|-----|------|----|
| Model     | Series | A               | B    | e       | E    | L    | L'   | M   | S1   | S3 |
| HGP       | 0E ✓   | 18              | 19.5 | M14x1.0 | 7.0  | 23.5 | 22.0 | 4.0 | 12.5 | 17 |
| HGP       | 1E ✓   | 20              | 21.5 | M16x1.0 | 9.0  | 28.0 | 28.0 | 4.5 | 14.5 | 19 |
| HGP       | 2E     | 25              | 27.5 | M20x1.0 | 10.5 | 32.5 | 28.0 | 5.0 | 18.5 | 24 |
| HGP       | 3E     | 31              | 34.5 | M24x1.0 | 15.5 | 39.5 | 38.5 | 6.0 | 22.5 | 30 |
| HGP       | 4E     | 37              | 41.5 | M30x1.0 | 17.5 | 43.0 | 44.0 | 6.5 | 28.5 | 36 |
| HGP       | 5E     | 55              | 54.0 | M45x1.5 | 20.0 | 52.0 | 76.0 | 9.0 | 42.5 | -  |

**Note:** the 5E series is delivered with a round nut  
' unipole model



## EINPOLIG / HOCHSTROM | UNIPOLE / HIGH CURRENT

## KONTAKTFIGURATION SERIE E+S | CONTACTFIGURATION SERIES E+S



| Soldersided seen                                                                   |                                                                                     | Order-No. | Size | Impedance | Contact-ø (øA) | Max. conductor-ø | Valid current | Supply voltage<br>U <sub>s</sub> (kV dc) |     | Test voltage<br>U <sub>e</sub> (kV dc) |     | Cable-order-no. | Type of insulation | Delivery time |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------|------|-----------|----------------|------------------|---------------|------------------------------------------|-----|----------------------------------------|-----|-----------------|--------------------|---------------|
| Male contact                                                                       | Female contact                                                                      |           |      |           |                |                  |               |                                          |     |                                        |     |                 |                    |               |
|    |    | 113       | 00   | -         | 1.3            | 1.0              | 8             | 0.25                                     | 0.4 | 0.8                                    | 1.2 | RG-174/U        | unipole            | ●             |
|    |    | 116       | 0    | -         | 1.6            | 1.4              | 12            | -                                        | 0.7 | -                                      | 2.1 | RG-174/U        | unipole            | ●             |
|    |    | 120       | 1    | -         | 2              | 1.8              | 18            | -                                        | 0.9 | -                                      | 2.7 | RG-174 A/U      | unipole            | ●             |
|    |    | 130       | 1    | -         | 3              | 2.7              | 25            | -                                        | 0.7 | -                                      | 2.1 | 140 470         | unipole            | ●             |
|    |    | 130       | 2    | -         | 3              | 2.7              | 30            | -                                        | 1.0 | -                                      | 3.0 | on request      | unipole            | ●             |
|   |   | 140       | 2    | -         | 4              | 3.7              | 40            | -                                        | 0.8 | -                                      | 2.4 | on request      | unipole            | ●             |
|  |  | 140       | 3    | -         | 4              | 3.7              | 43            | -                                        | 1.1 | -                                      | 3.3 | on request      | unipole            | ●             |
|  |  | 160       | 3    | -         | 6              | 5.5              | 65            | -                                        | 0.8 | -                                      | 2.4 | on request      | unipole            | ●             |
|  |  | 140       | 4    | -         | 4              | 3.7              | 46            | -                                        | 1.4 | -                                      | 4.2 | on request      | unipole            | ●             |
|  |  | 160       | 4    | -         | 6              | 5.5              | 70            | -                                        | 1.3 | -                                      | 3.9 | on request      | unipole            | ●             |
|  |  | 112       | 5    | -         | 12             | 12               | 230           | -                                        | 0.7 | -                                      | 2.1 | on request      | unipole            | ○             |



# EINPOLIG / HOCHSTROM | UNIPOLE / HIGH CURRENT KONFEKTIONIERUNGSANLEITUNG | ASSEMBLING INSTRUCTIONS



| Reference |      |          | Contact<br>ø (mm) | Unisolated length (mm) |     |      |
|-----------|------|----------|-------------------|------------------------|-----|------|
| Series    | Type | Cable    |                   | A                      | B   | C    |
| 0S/0E     | 116  | one-lead | 1.6               | 3.0                    | 4.5 | 6.0  |
| 1S/1E     | 120  | one-lead | 2.0               | 3.0                    | 5.0 | 7.0  |
| 1S/1E     | 130  | one-lead | 3.0               | 3.0                    | 5.0 | 7.0  |
| 2S/2E     | 130  | one-lead | 3.0               | 5.0                    | 6.0 | 9.0  |
| 2S/2E     | 140  | one-lead | 4.0               | 4.0                    | 6.0 | 9.0  |
| 3S/3E     | 140  | one-lead | 4.0               | 4.0                    | 9.0 | 12.0 |
| 3S/3E     | 160  | one-lead | 6.0               | 5.0                    | 9.0 | 12.0 |
| 4S/4E     | 140  | one-lead | 4.0               | 3.5                    | 8.0 | 12.0 |
| 4S/4E     | 160  | one-lead | 6.0               | 5.5                    | 8.0 | 12.0 |
| 5S/5E     | 112  | one-lead | 12.0              | 16.0                   | -   | 19.0 |



**Note:** The dimensions are standard values and may vary depending on the cable quality.

Die Abmessungen sind Richtwerte und können sich je nach Kabelqualität ändern.

**Steckverbindungen  
Connectors  
Kontaktfiguration  
Contactfiguration  
Kabel  
Cable  
Konfektionierungsanleitung  
Assembling Instructions**



**GEMISCHT / MEHRPOLIG HOCHSTROM  
HYBRID / MULTIPOLE HIGH CURRENT**

# GEMISCHT/MEHRPOLIG HOCHSTROM | HYBRIDE/MULTIPOLE HIGH CURRENT

## BAUFORM S-SERIE | MODEL S-SERIES



### FFA Straight plug, cable collet



| Reference |        |
|-----------|--------|
| Model     | Series |
| FFA       | 2S     |
| FFA       | 3S ✓   |
| FFA       | 4S ✓   |
| FFA       | 5S ✓   |

| Dimensions (mm) |     |    |    |
|-----------------|-----|----|----|
| A               | L   | M  | S2 |
| 14.8            | 52  | 40 | 11 |
| 17.8            | 61  | 46 | 14 |
| 24.8            | 77  | 59 | 19 |
| 35.1            | 103 | 78 | 29 |



### FFA Straight plug with oversize cable collet

| Reference |        |
|-----------|--------|
| Model     | Series |
| FFA       | 2S ✓   |
| FFA       | 3S ✓   |
| FFA       | 4S ✓   |
| FFA       | 5S ✓   |

| Dimensions (mm) |      |     |     |      |    |
|-----------------|------|-----|-----|------|----|
| A               | B    | L   | M   | S1   | S2 |
| 14.8            | 18.0 | 67  | 55  | 14.0 | 14 |
| 17.8            | 21.0 | 85  | 70  | 19.0 | 19 |
| 24.8            | 31.8 | 107 | 89  | 28.5 | 29 |
| 35.1            | 41.8 | 138 | 113 | 37.5 | 38 |

**Note:** the fitting of oversize collets onto this model allows them to be fitted to the cables that can be accommodated by the next housing size up

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



| Reference |        |
|-----------|--------|
| Model     | Series |
| FFA       | 2S ✓   |
| FFA       | 3S ✓   |
| FFA       | 4S ✓   |

| Dimensions (mm) |    |    |    |
|-----------------|----|----|----|
| A               | L  | M  | S2 |
| 14.8            | 52 | 40 | 12 |
| 17.8            | 61 | 46 | 14 |
| 24.8            | 77 | 59 | 20 |

**Note:** the bend relief must be ordered separately (see page 80)

### FFP Straight plug, cable collet and inner anti-rotating device



| Reference |        |
|-----------|--------|
| Model     | Series |
| FFP       | 2S     |
| FFP       | 3S ✓   |
| FFP       | 4S ✓   |

| Dimensions (mm) |    |    |    |
|-----------------|----|----|----|
| A               | L  | M  | S2 |
| 14.8            | 52 | 40 | 11 |
| 17.8            | 61 | 46 | 14 |
| 24.8            | 77 | 59 | 19 |



Part number example see page 3

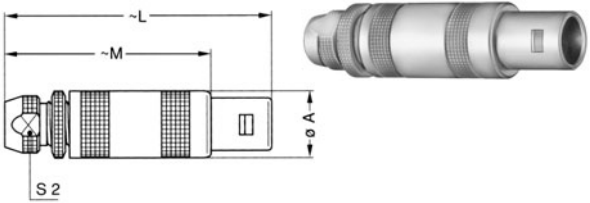


# GEMISCHT/MEHRPOLIG HOCHSTROM | HYBRIDE/MULTIPOLE HIGH CURRENT

## BAUFORM S-SERIE | MODEL S-SERIES

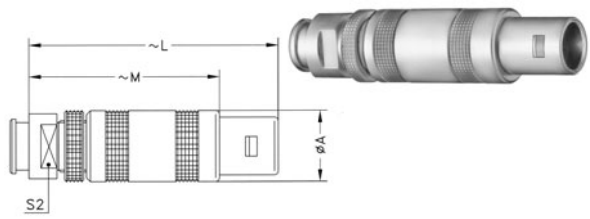
### FFB Straight plug, cable collet and safety locking ring

| Reference |        | Dimensions (mm) |      |      |      |
|-----------|--------|-----------------|------|------|------|
| Model     | Series | A               | L    | M    | S2   |
| FFB       | 2S ✓   | 14.8            | 55.5 | 43.5 | 11.0 |
| FFB       | 3S ✓   | 17.8            | 65.0 | 50.0 | 14.0 |



### FFB Straight plug, cable collet and safety locking ring and nut for fitting a bend relief

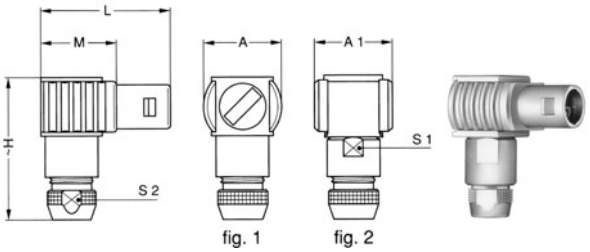
| Reference |        | Dimensions (mm) |      |      |    |
|-----------|--------|-----------------|------|------|----|
| Model     | Series | A               | L    | M    | S2 |
| FFB       | 2S     | 14.8            | 55.5 | 43.5 | 12 |
| FFB       | 3S     | 17.8            | 65.0 | 50.0 | 14 |



**Note:** series 2S and 3S are available on request  
the bend relief must be ordered seperately (see page 80)

### FLA Elbow (90°) plug, cable collet

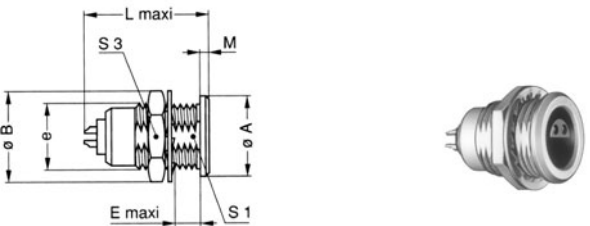
| Reference |        | Dimensions (mm) |    |      |      |      |    |    |
|-----------|--------|-----------------|----|------|------|------|----|----|
| Model     | Series | A               | A1 | H    | L    | M    | S1 | S2 |
| FLA       | 2S     | 20              | 20 | 37.0 | 31.0 | 19.0 | 13 | 11 |
| FLA       | 3S     | 21              | 21 | 44.0 | 38.5 | 23.5 | 15 | 14 |
| FLA       | 4S ✓   | 28              | 28 | 56.0 | 49.0 | 31.0 | 20 | 19 |
| FLA       | 5S ✓   | -               | 37 | 76.5 | 65.0 | 40.0 | 30 | 29 |



**Note:** fig.1 is used for the unipole type; fig.2 is used for the multipole type

### ERA Fixed socket, nut fixing

| Reference |        | Dimensions (mm) |      |         |      |      |      |     |      |    |
|-----------|--------|-----------------|------|---------|------|------|------|-----|------|----|
| Model     | Series | A               | B    | e       | E    | L    | L'   | M   | S1   | S3 |
| ERA       | 2S     | 18              | 19.5 | M15x1.0 | 8.5  | 24.5 | 26.0 | 1.8 | 13.5 | 17 |
| ERA       | 3S ✓   | 22              | 25.2 | M18x1.0 | 11.5 | 29.0 | 30.0 | 2.0 | 16.5 | 22 |
| ERA       | 4S ✓   | 28              | 32.0 | M25x1.0 | 12.0 | 34.0 | 36.0 | 2.5 | 23.5 | 30 |
| ERA       | 5S ✓   | 40              | 40.0 | M35x1.0 | 15.5 | 45.0 | 78.5 | 3.0 | 33.5 | -  |



**Note:** the 5S series is delivered with a tapered washer and a round nut  
1 unipole model

✓ Bei Lemo vorhanden | available at Lemo

# GEMISCHT/MEHRPOLIG HOCHSTROM | HYBRIDE/MULTIPOLE HIGH CURRENT

## BAUFORM S-SERIE | MODEL S-SERIES



### ERN Fixed socket, nut fixing, with earthing tag

| Reference |        | Dimensions (mm) |      |         |      |      |      |     |      |    |
|-----------|--------|-----------------|------|---------|------|------|------|-----|------|----|
| Model     | Series | A               | B    | e       | E    | L    | L'   | M   | S1   | S3 |
| ERN       | 2S ✓   | 18              | 19.5 | M15x1.0 | 8.5  | 26.3 | 26.3 | 1.8 | 13.5 | 17 |
| ERN       | 3S     | 22              | 25.2 | M18x1.0 | 11.5 | 29.8 | 30.0 | 2.0 | 16.5 | 22 |

Note: <sup>1</sup> unipole model



### EHP Fixed socket, nut fixing, protruding shell

| Reference |        | Dimensions (mm) |      |         |   |    |    |      |    |    |
|-----------|--------|-----------------|------|---------|---|----|----|------|----|----|
| Model     | Series | A               | B    | e       | E | L  | L' | M    | S1 | S3 |
| EHP       | 3S ✓   | 22              | 25.2 | M18x1.0 | 4 | 29 | 30 | 18.7 | -  | 22 |

Note: <sup>1</sup> unipole model



### EBC Fixed socket with square flange, protruding shell and screw fixing

| Reference |        | Dimensions (mm) |    |     |      |      |      |      |     |
|-----------|--------|-----------------|----|-----|------|------|------|------|-----|
| Model     | Series | A               | B  | C   | H    | L    | L'   | M    | N   |
| EBC       | 2S     | 22              | 15 | 3.2 | 15.5 | 24.5 | 26.0 | 18.5 | 4.4 |
| EBC       | 3S     | 25              | 18 | 3.2 | 18.0 | 29.0 | 30.0 | 23.5 | 3.0 |
| EBC       | 5S ✓   | 45              | 40 | 4.3 | 36.8 | 45.0 | 53.5 | 15.0 | 4.0 |

Note: <sup>1</sup> unipole model



### ERD Fixed socket with two nuts (back panel mounting)

| Reference |        | Dimensions (mm) |      |         |      |      |    |     |      |    |
|-----------|--------|-----------------|------|---------|------|------|----|-----|------|----|
| Model     | Series | A               | B    | e       | E    | L    | L' | M   | S1   | S3 |
| ERD       | 2S     | 20              | 19.5 | M15x1.0 | 6.5  | 24.5 | 26 | 3.5 | 13.5 | 17 |
| ERD       | 3S ✓   | 24              | 25.2 | M18x1.0 | 9.0  | 29.0 | 30 | 4.5 | 16.5 | 22 |
| ERD       | 4S     | 30              | 32.0 | M25x1.0 | 10.0 | 34.0 | 36 | 4.5 | 23.5 | 30 |

Note: the 3S and 4S series are delivered with a conical nut  
<sup>1</sup> unipole model



Part number example see page 3



## GEMISCHT/MEHRPOLIG HOCHSTROM | HYBRIDE/MULTIPOLE HIGH CURRENT

### BAUFORM S-SERIE | MODEL S-SERIES

**ECP** Fixed socket with two nuts, long threaded shell, with straight contact for printed circuit (back panel mounting)

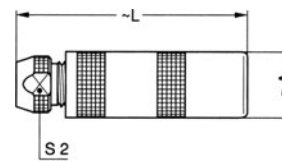
| Reference |        | Dimensions (mm) |      |         |    |     |    |      |    |
|-----------|--------|-----------------|------|---------|----|-----|----|------|----|
| Model     | Series | A               | B    | e       | E  | M   | N  | S1   | S3 |
| ECP       | 2S ✓   | 20              | 19.5 | M15x1.0 | 11 | 3.5 | 20 | 13.5 | 17 |
| ECP       | 3S ✓   | 24              | 25.2 | M18x1.0 | 14 | 4.5 | 24 | 16.5 | 22 |

**Note:** This contact type is available for all EXX socket models. Length 'L' depends on the number of contacts. The 3S-series is delivered with a conical nut.



### PCA Free socket, cable collet

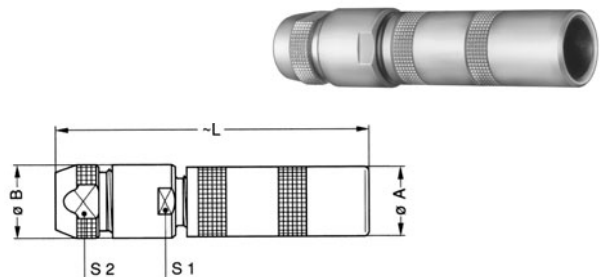
| Reference |        | Dimensions (mm) |    |    |
|-----------|--------|-----------------|----|----|
| Model     | Series | A               | L  | S2 |
| PCA       | 2S     | 14.8            | 50 | 11 |
| PCA       | 3S ✓   | 17.8            | 59 | 14 |
| PCA       | 4S ✓   | 24.8            | 75 | 19 |
| PCA       | 5S ✓   | 34.7            | 99 | 29 |



### PCA Free socket with oversize cable collet

| Reference |        | Dimensions (mm) |      |     |      |    |
|-----------|--------|-----------------|------|-----|------|----|
| Model     | Series | A               | B    | L   | S1   | S2 |
| PCA       | 2S ✓   | 14.8            | 18.0 | 65  | 14.0 | 14 |
| PCA       | 3S ✓   | 17.8            | 21.0 | 83  | 19.0 | 19 |
| PCA       | 4S ✓   | 24.8            | 31.8 | 105 | 28.5 | 29 |

**Note:** the fitting of oversize collets onto this model allows it to be fitted to the cables that can be accommodated by the next housing size up



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

| Reference |        | Dimensions (mm) |    |    |
|-----------|--------|-----------------|----|----|
| Model     | Series | A               | L  | S2 |
| PCA       | 2S ✓   | 14.8            | 50 | 12 |
| PCA       | 3S ✓   | 17.8            | 59 | 14 |
| PCA       | 4S ✓   | 24.8            | 75 | 20 |

**Note:** the bend relief must be ordered separately (see page 80)



# GEMISCHT/MEHRPOLIG HOCHSTROM | HYBRIDE/MULTIPOLE HIGH CURRENT

## BAUFORM S-SERIE | MODEL S-SERIES



### PSA Fixed socket, nut fixing, cable collet



| Reference |        | Dimensions (mm) |      |         |      |    |     |      |    |    |
|-----------|--------|-----------------|------|---------|------|----|-----|------|----|----|
| Model     | Series | A               | B    | e       | E    | L  | M   | S1   | S2 | S3 |
| PSA       | 2S     | 18              | 19.5 | M15x1.0 | 8.5  | 50 | 1.8 | 13.5 | 11 | 17 |
| PSA       | 3S ✓   | 22              | 25.2 | M18x1.0 | 11.5 | 59 | 2.0 | 16.5 | 14 | 22 |
| PSA       | 4S ✓   | 28              | 32.0 | M25x1.0 | 12.0 | 75 | 2.5 | 23.5 | 19 | 30 |
| PSA       | 5S ✓   | 40              | 40.0 | M35x1.0 | 15.5 | 99 | 3.0 | 33.5 | 29 | -  |

**Note:** the 5S series is delivered with a tapered washer and a round nut

### PSP Fixed socket, nut fixing, cable collet and inner anti-rotating device



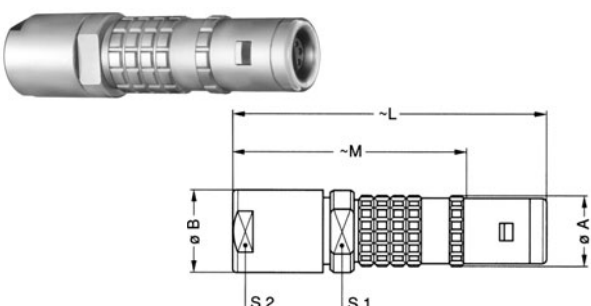
| Reference |        | Dimensions (mm) |      |         |      |    |     |      |    |    |
|-----------|--------|-----------------|------|---------|------|----|-----|------|----|----|
| Model     | Series | A               | B    | e       | E    | L  | M   | S1   | S2 | S3 |
| PSP       | 2S     | 18              | 19.5 | M15x1.0 | 8.5  | 50 | 1.8 | 13.5 | 11 | 17 |
| PSP       | 3S     | 22              | 25.2 | M18x1.0 | 11.5 | 59 | 2.0 | 16.5 | 14 | 22 |
| PSP       | 4S ✓   | 28              | 32.0 | M25x1.0 | 12.0 | 75 | 2.5 | 23.5 | 19 | 30 |

## BAUFORM E-SERIE | MODEL E-SERIES

### FFA Straight plug, cable collet – watertight



| Reference |        | Dimensions (mm) |    |      |    |
|-----------|--------|-----------------|----|------|----|
| Model     | Series | A               | L  | M    | S2 |
| FFA       | 2E ✓   | 16              | 52 | 36.0 | 12 |
| FFA       | 3E ✓   | 19              | 61 | 41.0 | 15 |
| FFA       | 4E ✓   | 25              | 71 | 50.5 | 19 |
| FFA       | 5E     | 38              | 92 | 67.0 | 32 |



### FFA Straight plug with oversize cable collet – watertight

| Reference |        | Dimensions (mm) |    |     |    |    |    |
|-----------|--------|-----------------|----|-----|----|----|----|
| Model     | Series | A               | B  | L   | M  | S1 | S2 |
| FFA       | 2E ✓   | 16              | 17 | 65  | 49 | 15 | 15 |
| FFA       | 3E ✓   | 19              | 22 | 80  | 60 | 19 | 19 |
| FFA       | 4E ✓   | 25              | 36 | 105 | 84 | 30 | 32 |

**Note:** the fitting of oversize collets onto this model allows them to be fitted to the cables that can be accommodated by the next housing size up

✓ Bei Lemo vorhanden | available at Lemo



Part number example see page 3



## GEMISCHT/MEHRPOLIG HOCHSTROM

## HYBRIDE/MULTIPOLE HIGH CURRENT

### BAUFORM E-SERIE

### MODEL E-SERIE

**FFA straight plug, cable collet and nut for fitting a bend relief – watertight**

| Reference |        | Dimensions (mm) |    |      |    |
|-----------|--------|-----------------|----|------|----|
| Model     | Series | A               | L  | M    | S2 |
| FFA       | 2E ✓   | 16              | 52 | 36.0 | 12 |
| FFA       | 3E ✓   | 19              | 60 | 40.0 | 15 |
| FFA       | 4E ✓   | 25              | 71 | 50.5 | 19 |

**Note:** the bend relief must be ordered separately (see page 80)



**FAA Fixed plug non-latching, nut fixing – watertight**

| Reference |        | Dimensions (mm) |      |         |     |      |      |      |      |
|-----------|--------|-----------------|------|---------|-----|------|------|------|------|
| Model     | Series | A               | B    | e       | E   | L    | L'   | M    | S1   |
| FAA       | 2E     | 25              | 27.5 | M20x1.0 | 4.0 | 27.0 | 27.0 | 18.0 | 18.5 |
| FAA       | 3E ✓   | 31              | 34.5 | M24x1.0 | 4.5 | 32.5 | 32.5 | 22.5 | 22.5 |

**Note:** <sup>1</sup> unipole model



**FLA Elbow (90°) plug, cable collet – watertight**

| Reference |        | Dimensions (mm) |      |    |    |      |    |    |    |
|-----------|--------|-----------------|------|----|----|------|----|----|----|
| Model     | Series | A               | D    | H  | L  | M    | S1 | S2 | S3 |
| FLA       | 2E     | 17.5            | 10.5 | 40 | 51 | 35.0 | 15 | 12 | 13 |
| FLA       | 3E ✓   | 21.0            | 11.5 | 47 | 60 | 40.0 | 18 | 15 | 15 |
| FLA       | 4E     | 27.5            | 15.5 | 57 | 72 | 51.5 | 24 | 19 | 20 |



**ERA Fixed socket, nut fixing – watertight**

| Reference |        | Dimensions (mm) |      |         |    |      |    |     |      |
|-----------|--------|-----------------|------|---------|----|------|----|-----|------|
| Model     | Series | A               | B    | e       | E  | L    | L' | M   | S1   |
| ERA       | 2E ✓   | 25              | 27.5 | M20x1.0 | 9  | 28.5 | 30 | 5.0 | 18.5 |
| ERA       | 3E ✓   | 31              | 34.5 | M24x1.0 | 11 | 34.0 | 35 | 6.0 | 22.5 |
| ERA       | 4E ✓   | 37              | 41.5 | M30x1.0 | 9  | 36.0 | 38 | 6.5 | 28.5 |
| ERA       | 5E     | 55              | 54.0 | M45x1.5 | 10 | 44.5 | 78 | 9.0 | 42.5 |

**Note:** the 5E series is delivered with a round nut.  
<sup>1</sup> unipole model



# GEMISCHT/MEHRPOLIG HOCHSTROM | HYBRIDE/MULTIPOLE HIGH CURRENT

## BAUFORM E-SERIE | MODEL E-SERIES



**EEP Fixed socket, nut fixing, with straight contact for printed circuit (back panel mounting) – watertight**

| Reference |        | Dimensions (mm) |    |         |   |     |      |    |      |
|-----------|--------|-----------------|----|---------|---|-----|------|----|------|
| Model     | Series | A               | B  | e       | E | M   | N    | P  | S1   |
| EEP       | 2E ✓   | 25              | 25 | M20x1.0 | 5 | 3.5 | 25.5 | 10 | 18.5 |
| EEP       | 3E ✓   | 30              | 31 | M24x1.0 | 7 | 4.5 | 30.5 | 12 | 22.5 |

**Note:** length 'L' depends on the number of contacts

**PCA Free socket, cable collet – watertight**



| Reference |        | Dimensions (mm) |      |    |
|-----------|--------|-----------------|------|----|
| Model     | Series | A               | L    | S2 |
| PCA       | 2E ✓   | 19              | 54.0 | 12 |
| PCA       | 3E ✓   | 23              | 65.0 | 15 |
| PCA       | 4E ✓   | 29              | 75.5 | 19 |
| PCA       | 5E     | 42              | 95.0 | 32 |

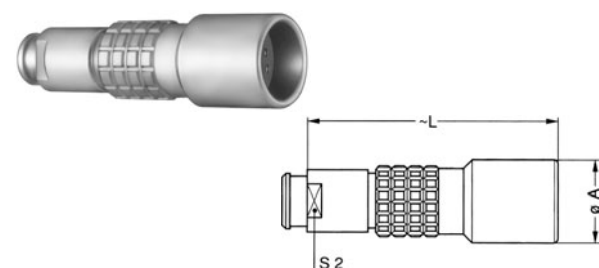
**PCA Free socket with oversize cable collet – watertight**



| Reference |        | Dimensions (mm) |    |     |    |    |
|-----------|--------|-----------------|----|-----|----|----|
| Model     | Series | A               | B  | L   | S1 | S2 |
| PCA       | 2E ✓   | 19              | 17 | 67  | 15 | 15 |
| PCA       | 3E ✓   | 23              | 22 | 84  | 19 | 19 |
| PCA       | 4E ✓   | 29              | 36 | 109 | 30 | 32 |

**Note:** the fitting of oversize collets onto this model allows them to be fitted to the cables that can be accommodated by the next housing size up

**PCA Free socket, cable collet and nut for fitting a bend relief – watertight**



| Reference |        | Dimensions (mm) |      |    |
|-----------|--------|-----------------|------|----|
| Model     | Series | A               | L    | S2 |
| PCA       | 2E ✓   | 19              | 54.0 | 12 |
| PCA       | 3E ✓   | 23              | 64.0 | 15 |
| PCA       | 4E ✓   | 29              | 75.5 | 19 |

**Note:** the bend relief must be ordered separately (see page 80)



Part number example see page 3



## GEMISCHT/MEHRPOLIG HOCHSTROM | HYBRIDE/MULTIPOLE HIGH CURRENT

### BAUFORM E-SERIE | MODEL E-SERIES

#### PSA Fixed socket, nut fixing, cable collet – watertight

| Reference |        | Dimensions (mm) |      |         |    |      |     |      |    |    |
|-----------|--------|-----------------|------|---------|----|------|-----|------|----|----|
| Model     | Series | A               | B    | e       | E  | L    | M   | S1   | S2 | S3 |
| PSA       | 2E     | 25              | 27.5 | M20x1.0 | 9  | 54.0 | 5.0 | 18.5 | 12 | 24 |
| PSA       | 3E     | 31              | 34.5 | M24x1.0 | 11 | 65.0 | 6.0 | 22.5 | 15 | 30 |
| PSA       | 4E ✓   | 37              | 41.5 | M30x1.5 | 9  | 75.5 | 6.5 | 28.5 | 19 | 36 |
| PSA       | 5E     | 51              | 54.0 | M45x1.5 | 10 | 95.0 | 9.0 | -    | 32 | 54 |

**Note:** the 5E series is delivered with a round nut



#### HGP Fixed socket, nut fixing, watertight and vacuumtight

| Reference |        | Dimensions (mm) |      |         |      |      |      |     |      |    |
|-----------|--------|-----------------|------|---------|------|------|------|-----|------|----|
| Model     | Series | A               | B    | e       | E    | L    | L'   | M   | S1   | S3 |
| HGP       | 2E ✓   | 25              | 27.5 | M20x1.0 | 10.5 | 32.5 | 28.0 | 5.0 | 18.5 | 24 |
| HGP       | 3E ✓   | 31              | 34.5 | M24x1.0 | 15.5 | 39.5 | 38.5 | 6.0 | 22.5 | 30 |
| HGP       | 4E     | 37              | 41.5 | M30x1.0 | 17.5 | 43.0 | 44.0 | 6.5 | 28.5 | 36 |
| HGP       | 5E     | 55              | 54.0 | M45x1.5 | 20.0 | 52.0 | 76.0 | 9.0 | 42.5 | -  |

**Note:** the 5E series is delivered with a round nut  
' unipole model

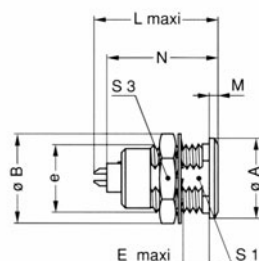


## BAUFORM B-SERIE | MODEL B-SERIES

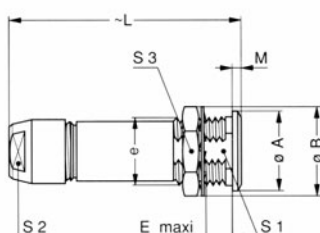
#### FGG Straight plug with key (G) or keys (code A to M and R)

| Reference |        | Dimensions (mm) |     |    |    |    |
|-----------|--------|-----------------|-----|----|----|----|
| Model     | Series | A               | L   | M  | S1 | S2 |
| FGG       | 1B ✓   | 12              | 43  | 32 | 10 | 9  |
| FGG       | 2B ✓   | 15              | 49  | 37 | 13 | 12 |
| FGG       | 3B ✓   | 18              | 58  | 43 | 15 | 14 |
| FGG       | 4B ✓   | 25              | 75  | 57 | 21 | 20 |
| FGG       | 5B ✓   | 35              | 103 | 78 | 31 | 30 |

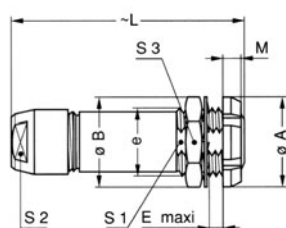




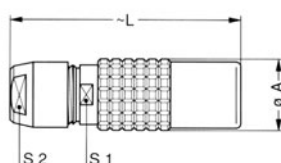
| Reference |        | Dimensions (mm) |    |         |      |      |     |      |      |    |
|-----------|--------|-----------------|----|---------|------|------|-----|------|------|----|
| Model     | Series | A               | B  | e       | E    | L    | M   | N    | S1   | S3 |
| EGG       | 1B ✓   | 14              | 16 | M12x1.0 | 7.5  | 21.7 | 1.5 | 19.5 | 10.5 | 14 |
| EGG       | 2B ✓   | 18              | 20 | M15x1.0 | 8.5  | 25.0 | 1.8 | 21.5 | 13.5 | 17 |
| EGG       | 3B ✓   | 22              | 25 | M18x1.0 | 11.5 | 30.0 | 2.0 | 25.5 | 16.5 | 22 |
| EGG       | 4B ✓   | 28              | 32 | M25x1.0 | 12.0 | 34.5 | 2.5 | 30.5 | 23.5 | 30 |
| EGG       | 5B ✓   | 40              | 40 | M35x1.0 | 15.5 | 45.5 | 3.0 | 36.5 | 33.5 | -  |



| Reference |        | Dimensions (mm) |      |         |      |      |     |      |    |    |
|-----------|--------|-----------------|------|---------|------|------|-----|------|----|----|
| Model     | Series | A               | B    | e       | E    | L    | M   | S1   | S2 | S3 |
| PKG       | 1B ✓   | 14              | 16.0 | M12x1.0 | 7.5  | 40.5 | 1.5 | 10.5 | 9  | 14 |
| PKG       | 2B ✓   | 18              | 19.5 | M15x1.0 | 8.5  | 47.0 | 1.8 | 13.5 | 12 | 17 |
| PKG       | 3B ✓   | 22              | 25.0 | M18x1.0 | 11.5 | 56.0 | 2.0 | 16.5 | 14 | 22 |
| PKG       | 4B ✓   | 28              | 32.0 | M25x1.0 | 12.5 | 73.0 | 2.5 | 23.5 | 20 | 30 |
| PKG       | 5B ✓   | 40              | 40.0 | M35x1.0 | 11.0 | 99.0 | 3.0 | 33.5 | 30 | -  |



| Reference |        | Dimensions (mm) |    |         |      |      |     |      |    |    |
|-----------|--------|-----------------|----|---------|------|------|-----|------|----|----|
| Model     | Series | A               | B  | e       | E    | L    | M   | S1   | S2 | S3 |
| PFG       | 1B ✓   | 16              | 16 | M12x1.0 | 5.0  | 40.5 | 3.5 | 10.5 | 9  | 14 |
| PFG       | 2B ✓   | 20              | 20 | M15x1.0 | 6.5  | 47.0 | 3.5 | 13.5 | 12 | 17 |
| PFG       | 3B ✓   | 24              | 25 | M18x1.0 | 9.0  | 56.0 | 4.5 | 16.5 | 14 | 22 |
| PFG       | 4B ✓   | 30              | 32 | M25x1.0 | 11.0 | 73.0 | 4.5 | 23.5 | 20 | 30 |



| Reference |        | Dimensions (mm) |      |    |    |
|-----------|--------|-----------------|------|----|----|
| Model     | Series | A               | L    | S1 | S2 |
| PHG       | 1B ✓   | 12.5            | 40.5 | 10 | 9  |
| PHG       | 2B ✓   | 16.5            | 47.0 | 13 | 12 |
| PHG       | 3B ✓   | 19.0            | 56.0 | 15 | 14 |
| PHG       | 4B ✓   | 24.4            | 73.0 | 21 | 20 |
| PHG       | 5B ✓   | 34.2            | 99.0 | 31 | 30 |



Part number example see page 3

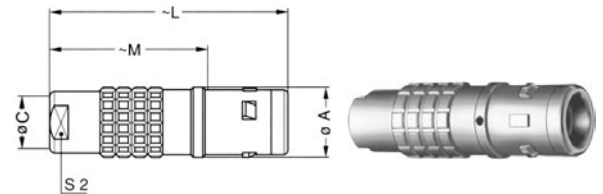


## GEMISCHT/MEHRPOLIG HOCHSTROM | HYBRIDE/MULTIPOLE HIGH CURRENT

### BAUFORM K-SERIE | MODEL K-SERIES

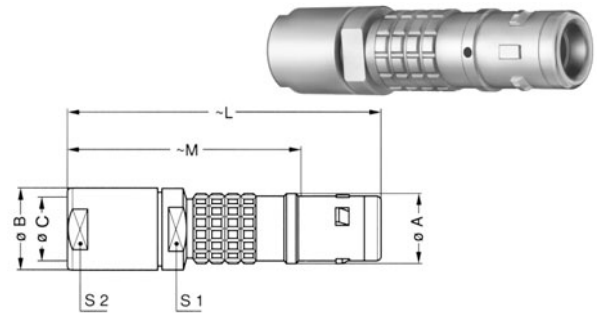
#### FGG Straight plug with key (G) or keys (code A to F and L) and cable collet – watertight

| Reference |        | Dimensions (mm) |      |    |      |      |
|-----------|--------|-----------------|------|----|------|------|
| Model     | Series | A               | C    | L  | M    | S2   |
| FGG       | 1K ✓   | 13              | 7.1  | 42 | 28.0 | 8.9  |
| FGG       | 2K ✓   | 16              | 9.2  | 52 | 36.0 | 11.9 |
| FGG       | 3K ✓   | 19              | 10.5 | 61 | 41.0 | 14.9 |
| FGG       | 4K ✓   | 25              | 14.0 | 71 | 50.5 | 18.9 |
| FGG       | 5K ✓   | 38              | 23.5 | 92 | 67.0 | 31.9 |



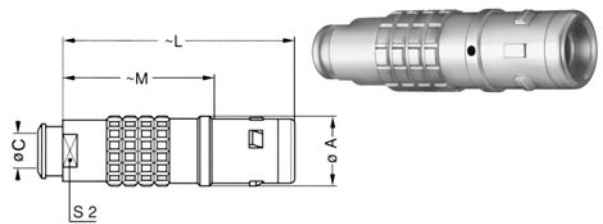
#### FGG Straight plug with key (G) or keys (code A to F and L) and oversize collet – watertight

| Reference |        | Dimensions (mm) |      |      |     |    |      |      |  |
|-----------|--------|-----------------|------|------|-----|----|------|------|--|
| Model     | Series | A               | B    | C    | L   | M  | S1   | S2   |  |
| FGG       | 1K ✓   | 13              | 14.5 | 9.2  | 55  | 41 | 11.9 | 11.9 |  |
| FGG       | 2K ✓   | 16              | 17.0 | 10.5 | 65  | 49 | 14.9 | 14.9 |  |
| FGG       | 3K ✓   | 19              | 22.0 | 15.3 | 80  | 60 | 18.9 | 18.9 |  |
| FGG       | 4K ✓   | 25              | 36.0 | 23.5 | 105 | 84 | 30.0 | 31.9 |  |



#### FGG Straight plug with key (G) or keys (code A to F and L) and bend relief – watertight

| Reference |        | Dimensions (mm) |      |      |      |      |
|-----------|--------|-----------------|------|------|------|------|
| Model     | Series | A               | C    | L    | M    | S2   |
| FGG       | 1K ✓   | 13              | 7.1  | 45.0 | 31.0 | 9.0  |
| FGG       | 2K ✓   | 16              | 8.7  | 49.0 | 33.0 | 11.9 |
| FGG       | 3K ✓   | 19              | 10.8 | 62.0 | 42.0 | 15.0 |
| FGG       | 4K ✓   | 25              | 15.3 | 78.5 | 50.5 | 18.9 |



**Note:** the bend relief must be ordered separately (see page 82)

#### EGG Fixed socket with nut fixing and key (G) or keys (code A to F and L) – watertight

| Reference |        | Dimensions (mm) |      |         |    |      |     |      |    |  |
|-----------|--------|-----------------|------|---------|----|------|-----|------|----|--|
| Model     | Series | A               | B    | e       | E  | L    | M   | S1   | S3 |  |
| EGG       | 1K ✓   | 20              | 21.5 | M16x1.0 | 9  | 26.0 | 4.5 | 14.5 | 19 |  |
| EGG       | 2K ✓   | 25              | 27.5 | M20x1.0 | 9  | 29.0 | 5.0 | 18.5 | 24 |  |
| EGG       | 3K ✓   | 31              | 34.5 | M24x1.0 | 11 | 34.5 | 6.0 | 22.5 | 30 |  |
| EGG       | 4K ✓   | 37              | 41.5 | M30x1.0 | 9  | 35.0 | 6.5 | 28.5 | 36 |  |
| EGG       | 5K ✓   | 54              | 54.0 | M45x1.5 | 10 | 43.5 | 9.0 | 42.5 | 54 |  |



# GEMISCHT/MEHRPOLIG HOCHSTROM | HYBRIDE/MULTIPOLE HIGH CURRENT

## BAUFORM K-SERIE | MODEL K-SERIES



**PKG** Fixed socket, nut fixing, with key (G) or keys (code A to F and L) and cable collet – watertight

| Reference |        | Dimensions (mm) |      |         |    |      |     |      |    |    |
|-----------|--------|-----------------|------|---------|----|------|-----|------|----|----|
| Model     | Series | A               | B    | e       | E  | L    | M   | S1   | S2 | S3 |
| PKG       | 1K ✓   | 20              | 21.5 | M16x1.0 | 9  | 45.0 | 4.5 | 14.5 | 9  | 19 |
| PKG       | 2K ✓   | 25              | 27.5 | M20x1.0 | 9  | 54.0 | 5.0 | 18.5 | 12 | 24 |
| PKG       | 3K ✓   | 31              | 34.5 | M24x1.0 | 11 | 65.0 | 6.0 | 22.5 | 15 | 30 |
| PKG       | 4K ✓   | 37              | 41.5 | M30x1.0 | 9  | 75.5 | 6.5 | 28.5 | 19 | 36 |
| PKG       | 5K ✓   | 55              | 54.0 | M45x1.0 | 15 | 95.0 | 9.0 | 42.5 | 32 | -  |



**PHG** Free socket, nut fixing, with key (G) or keys (code A to F and L) and cable collet – watertight

| Reference |        | Dimensions (mm) |      |      |      |
|-----------|--------|-----------------|------|------|------|
| Model     | Series | A               | C    | L    | S2   |
| PHG       | 1K ✓   | 15              | 7.1  | 45.0 | 8.9  |
| PHG       | 2K ✓   | 19              | 9.2  | 54.0 | 11.9 |
| PHG       | 3K ✓   | 23              | 10.5 | 65.0 | 14.9 |
| PHG       | 4K ✓   | 29              | 14.0 | 75.5 | 18.9 |
| PHG       | 5K ✓   | 42              | 23.5 | 95.0 | 31.9 |



**PHG** Free socket, nut fixing, with key (G) or keys (code A to F and L) and oversize collet – watertight

| Reference |        | Dimensions (mm) |      |      |       |      |      |
|-----------|--------|-----------------|------|------|-------|------|------|
| Model     | Series | A               | B    | C    | L     | S1   | S2   |
| PHG       | 1K ✓   | 15              | 14.5 | 9.2  | 58.0  | 11.9 | 11.9 |
| PHG       | 2K ✓   | 19              | 17.0 | 10.5 | 67.0  | 14.9 | 14.9 |
| PHG       | 3K ✓   | 23              | 22.0 | 14.0 | 86.0  | 18.9 | 18.9 |
| PHG       | 4K ✓   | 29              | 36.0 | 14.0 | 123.5 | 30.0 | 31.9 |



**PHG** Free socket, nut fixing, with key (G) or keys (code A to F and L) and nut for fitting a bend relief – watertight

| Reference |        | Dimensions (mm) |      |      |      |
|-----------|--------|-----------------|------|------|------|
| Model     | Series | A               | C    | L    | S2   |
| PHG       | 1K ✓   | 15              | 7.1  | 48.0 | 9.0  |
| PHG       | 2K ✓   | 19              | 9.2  | 57.0 | 11.9 |
| PHG       | 3K ✓   | 23              | 10.5 | 66.0 | 15.0 |
| PHG       | 4K ✓   | 29              | 14.0 | 75.5 | 18.9 |

**Note:** the bend relief must be ordered separately (see page 80)



Part number example see page 3



# GEMISCHT/MEHRPOLIG HOCHSTROM | HYBRIDE/MULTIPOLE HIGH CURRENT

## KONTAKTFIGURATION SERIE S+E | CONTACTFIGURATION SERIES S+E

| Soldersided seen |                | Order-No. | Size |
|------------------|----------------|-----------|------|
| Male contact     | Female contact |           |      |
|                  |                | 702       | 2    |
|                  |                | 702       | 3    |
|                  |                | 703       | 3    |
|                  |                | 704       | 3    |
|                  |                | 705       | 3    |
|                  |                | 706       | 3    |
|                  |                | 707       | 3    |
|                  |                | 708       | 3    |
|                  |                | 732       | 3    |
|                  |                | 734       | 3    |
|                  |                | 702       | 4    |
|                  |                | 703       | 4    |
|                  |                | 704       | 4    |

| Impedance | Contact-ø         | Max. conductor-ø  | Valid current | Supply voltage<br>U <sub>s</sub> (kV dc) |            | Test voltage<br>U <sub>e</sub> (kV dc) |                   | Cable-order-no.    | Type of insulation | Delivery time |
|-----------|-------------------|-------------------|---------------|------------------------------------------|------------|----------------------------------------|-------------------|--------------------|--------------------|---------------|
| Ω         | mm                | mm                | A             | K-K                                      | K-M        | K-K                                    | K-M               |                    |                    |               |
| -         | 1.3<br>3.0        | 1.0<br>2.7        | 15<br>-       | 0.6<br>3.5                               | 0.8<br>5.0 | 1.8<br>-                               | 2.4<br>-          | 020 140<br>106 330 | mixed              | ●             |
| -         | 1.3<br>2.0<br>2.0 | 1.0<br>1.8<br>1.8 | 10<br>18      | 3.0<br>0.35                              | 3.0<br>0.5 | 4.5<br>8.0<br>1.0                      | 4.5<br>8.0<br>1.5 | 317 440            | mixed              | ●○            |
| -         | 1.3<br>1.3        | 1.0<br>1.0        | 3<br>14       | 3.0<br>0.7                               | 3.0<br>1.0 | 4.5<br>8.0<br>2.1                      | 4.5<br>8.0<br>3.0 | 317 440            | mixed              | ●○            |
| -         | 1.3<br>1.3        | 1.0<br>1.0        | 3<br>10       | 3.0<br>0.35                              | 3.0<br>0.5 | 4.5<br>8.0<br>1.0                      | 4.5<br>8.0<br>1.5 | 317 440            | mixed              | ●             |
| -         | 1.3<br>1.3        | 1.0<br>1.0        | 3<br>9        | 3.0<br>0.35                              | 3.0<br>0.5 | 4.5<br>8.0<br>1.0                      | 4.5<br>8.0<br>1.5 | 317 480            | mixed              | ●             |
| -         | 1.3<br>1.3        | 1.0<br>1.0        | 3<br>8        | 3.0<br>0.35                              | 3.0<br>0.5 | 4.5<br>8.0<br>1.0                      | 4.5<br>8.0<br>1.5 | 317 480            | mixed              | ●             |
| -         | 1.3<br>1.3        | 1.0<br>1.0        | 3<br>8        | 3.0<br>0.35                              | 3.0<br>0.5 | 4.5<br>8.0<br>1.0                      | 4.5<br>8.0<br>1.5 | 317 480            | mixed              | ●             |
| -         | 1.3<br>0.9        | 1.0<br>0.8        | 8<br>6        | 3.0<br>0.25                              | 3.0<br>0.4 | 4.5<br>8.0<br>0.8                      | 4.5<br>8.0<br>1.2 | 317 480            | mixed              | ●             |
| -         | 1.3<br>1.3        | 1.0<br>1.0        | 10<br>14      | 3.0<br>0.7                               | 3.0<br>1.0 | 4.5<br>8.0<br>2.1                      | 4.5<br>8.0<br>3.0 | 321 740            | mixed              | ●             |
| -         | 1.3<br>1.3        | 1.0<br>1.0        | 3<br>10       | 3.0<br>0.7                               | 3.0<br>1.0 | 4.5<br>8.0<br>2.1                      | 4.5<br>8.0<br>3.0 | 321 740            | mixed              | ●             |
| -         | 2.0<br>3.0        | 1.8<br>2.7        | 6<br>22       | 3.0<br>0.7                               | 3.0<br>1.0 | 4.5<br>8.0<br>2.1                      | 4.5<br>8.0<br>3.0 | RG-cable           | mixed              | ●             |
| -         | 2.0<br>2.0        | 1.8<br>1.8        | 6<br>16       | 3.0<br>0.7                               | 3.0<br>1.0 | 4.5<br>8.0<br>2.1                      | 4.5<br>8.0<br>3.0 | on request         | mixed              | ●             |
| -         | 2.0<br>1.3        | 1.8<br>1.0        | 6<br>13       | 3.0<br>0.9                               | 3.0<br>1.3 | 4.5<br>8.0<br>2.7                      | 4.5<br>8.0<br>3.9 | on request         | mixed              | ●             |

# GEMISCHT/MEHRPOLIG HOCHSTROM | HYBRIDE/MULTIPOLE HIGH CURRENT

## KONTAKTFIGURATION SERIE S+E | CONTACTFIGURATION SERIES S+E



| Soldersided seen                                                                    |                                                                                     | Order-No. | Size | Impedance | Contact-ø | Max. conductor-ø | Valid current | Supply voltage<br>U <sub>s</sub> (kV dc) |     | Test voltage<br>U <sub>e</sub> (kV dc) |      | Cable-order-no. | Type of insulation | Delivery time                                                                         |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------|------|-----------|-----------|------------------|---------------|------------------------------------------|-----|----------------------------------------|------|-----------------|--------------------|---------------------------------------------------------------------------------------|
| Male contact                                                                        | Female contact                                                                      |           |      |           |           |                  |               |                                          |     |                                        |      |                 |                    |                                                                                       |
|    |    | 705       | 4    | -         | 2.0       | 1.8              | 6             | 3.0                                      | 3.0 | 4.5                                    | 4.5  | on request      | mixed              |    |
|                                                                                     |                                                                                     |           |      | -         | 1.3       | 1.0              | 11            | 0.7                                      | 1.0 | 8.0                                    | 8.0  |                 |                    |                                                                                       |
|    |    | 706       | 4    | -         | 2.0       | 1.8              | 6             | 3.0                                      | 3.0 | 4.5                                    | 4.5  | on request      | mixed              |    |
|                                                                                     |                                                                                     |           |      | -         | 1.3       | 1.0              | 9             | 0.7                                      | 1.0 | 8.0                                    | 8.0  |                 |                    |                                                                                       |
|   |   | 707       | 4    | -         | 2.0       | 1.8              | 6             | 3.0                                      | 3.0 | 4.5                                    | 4.5  | on request      | mixed              |    |
|                                                                                     |                                                                                     |           |      | -         | 1.3       | 1.0              | 9             | 0.7                                      | 1.0 | 8.0                                    | 8.0  |                 |                    |                                                                                       |
|  |  | 708       | 4    | -         | 2.0       | 1.8              | 6             | 3.0                                      | 3.0 | 4.5                                    | 4.5  | on request      | mixed              |  |
|                                                                                     |                                                                                     |           |      | -         | 1.3       | 1.0              | 9             | 0.7                                      | 1.0 | 8.0                                    | 8.0  |                 |                    |                                                                                       |
|  |  | 709       | 4    | -         | 2.0       | 1.8              | 6             | 3.0                                      | 3.0 | 4.5                                    | 4.5  | on request      | mixed              |  |
|                                                                                     |                                                                                     |           |      | -         | 0.9       | 0.7              | 7             | 0.7                                      | 1.0 | 2.1                                    | 3.0  |                 |                    |                                                                                       |
|  |  | 712       | 4    | -         | 2.0       | 1.8              | 6             | 3.0                                      | 3.0 | 4.5                                    | 4.5  | on request      | mixed              |  |
|                                                                                     |                                                                                     |           |      | -         | 0.9       | 0.8              | 7             | 0.7                                      | 1.0 | 2.1                                    | 3.0  |                 |                    |                                                                                       |
|  |  | 734       | 4    | -         | 2.0       | 1.8              | 14            | 3.0                                      | 3.0 | 4.5                                    | 4.5  | on request      | mixed              |  |
|                                                                                     |                                                                                     |           |      | -         | 1.3       | 1.0              | 13            | 0.7                                      | 1.0 | 8.0                                    | 8.0  |                 |                    |                                                                                       |
|  |  | 714       | 4    | -         | 2.0       | 1.8              | 14            | 3.0                                      | 3.0 | 4.5                                    | 4.5  | on request      | mixed              |  |
|                                                                                     |                                                                                     |           |      | -         | 0.9       | 0.8              | 7             | 0.7                                      | 1.0 | 8.0                                    | 8.0  |                 |                    |                                                                                       |
|  |  | 735       | 4    | -         | 2.0       | 1.8              | 14            | 3.0                                      | 3.0 | 4.5                                    | 4.5  | on request      | mixed              |  |
|                                                                                     |                                                                                     |           |      | -         | 1.3       | 1.0              | 11            | 0.7                                      | 1.0 | 8.0                                    | 8.0  |                 |                    |                                                                                       |
|  |  | 737       | 4    | -         | 2.0       | 1.8              | 14            | 3.0                                      | 3.0 | 4.5                                    | 4.5  | on request      | mixed              |  |
|                                                                                     |                                                                                     |           |      | -         | 1.3       | 1.0              | 9             | 0.7                                      | 1.0 | 8.0                                    | 8.0  |                 |                    |                                                                                       |
|  |  | 742       | 4    | -         | 2.0       | 1.8              | 15            | 3.0                                      | 3.0 | 4.5                                    | 4.5  | on request      | mixed              |  |
|                                                                                     |                                                                                     |           |      | -         | 0.9       | 1.0              | 7             | 0.7                                      | 1.0 | 8.0                                    | 8.0  |                 |                    |                                                                                       |
|  |  | 706       | 5    | -         | 2.0       | 1.8              | 10            | 5.0                                      | 5.0 | 7.5                                    | 7.5  | on request      | mixed              |  |
|                                                                                     |                                                                                     |           |      | -         | 2.0       | 1.8              | 10            | 0.8                                      | 1.0 | 14.0                                   | 14.0 |                 |                    |                                                                                       |



Part number example see page 3



## GEMISCHT/MEHRPOLIG HOCHSTROM | HYBRIDE/MULTIPOLE HIGH CURRENT

### KONTAKTFIGURATION SERIE S+E | CONTACTFIGURATION SERIES S+E

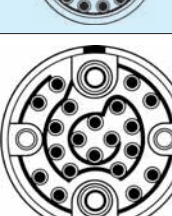
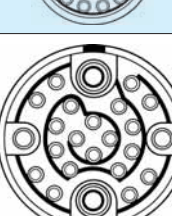
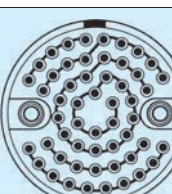
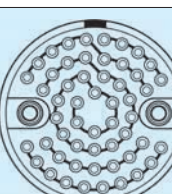
| Soldersided seen |                | Order-No. | Size |
|------------------|----------------|-----------|------|
| Male contact     | Female contact |           |      |
|                  |                | 708       | 5    |
|                  |                | 710       | 5    |
|                  |                | 724       | 5    |
|                  |                | 730       | 5    |
|                  |                | 733       | 5    |
|                  |                | 736       | 5    |
|                  |                | 738       | 5    |
|                  |                | 740       | 5    |
|                  |                | 754       | 5    |
|                  |                | 746       | 5S   |
|                  |                | 760       | 5S   |

| Impedance | Contact-ø | Max. conductor-ø | Valid current | Supply voltage<br>U <sub>S</sub> (kV dc) |     | Test voltage<br>U <sub>E</sub> (kV dc) |      | Cable-order-no.    | Type of insulation | Delivery time |
|-----------|-----------|------------------|---------------|------------------------------------------|-----|----------------------------------------|------|--------------------|--------------------|---------------|
| Ω         | mm        | mm               | A             | K-K                                      | K-M | K-K                                    | K-M  |                    |                    |               |
| -         | 2         | 1.8              | 10            | 5.0                                      | 5.0 | 7.5                                    | 7.5  | on request         | mixed              |               |
| -         | 2         | 1.8              | 15            | 0.4                                      | 0.6 | 14.0                                   | 14.0 |                    |                    |               |
| -         | 2         | 1.8              | 20            | 5.0                                      | 5.0 | 7.5                                    | 7.5  | on request         | mixed              |               |
| -         | 1.6       | 1.4              | 11            | 0.6                                      | 0.8 | 14.0                                   | 14.0 |                    |                    |               |
| -         | 2         | 1.8              | 10            | 5.0                                      | 5.0 | 7.5                                    | 7.5  | on request         | mixed              |               |
| -         | 1.3       | 1.0              | 6             | 0.4                                      | 0.6 | 14.0                                   | 14.0 |                    |                    |               |
| -         | 3         | 2.7              | 12            | 10                                       | 10  | 15                                     | 15   | on request         | mixed              |               |
| -         | 2         | 1.8              | 15            | 0.4                                      | 0.6 | 29                                     | 29   |                    |                    |               |
| -         | 2         | 1.8              | 6             | 5.0                                      | 5.0 | 7.5                                    | 7.5  | see catalogue      | mixed              |               |
| -         | 3         | 2.7              | 10            | 0.2                                      | 1.0 | 14.0                                   | 14.0 |                    |                    |               |
| -         | 2         | 1.8              | 15            | 5.0                                      | 5.0 | 7.5                                    | 7.5  | see catalogue      | mixed              |               |
| -         | 2         | 1.8              | 18            | 0.7                                      | 1.0 | 14.0                                   | 14.0 |                    |                    |               |
| -         | 2         | 1.8              | 6             | 5.0                                      | 5.0 | 7.5                                    | 7.5  | see catalogue      | mixed              |               |
| -         | 2         | 1.8              | 15            | 0.7                                      | 1.0 | 14.0                                   | 14.0 |                    |                    |               |
| -         | 2         | 1.8              | 20            | 5.0                                      | 5.0 | 7.5                                    | 7.5  | see catalogue      | mixed              |               |
| -         | 1.6       | 1.4              | 11            | 0.6                                      | 0.8 | 14.0                                   | 14.0 |                    |                    |               |
| -         | 2         | 1.8              | 6             | 5.0                                      | 5.0 | 7.5                                    | 7.5  | catalogue          | mixed              |               |
| -         | 1.3       | 1.0              | 6             | 0.4                                      | 0.6 | 14.0                                   | 14.0 |                    |                    |               |
| -         | 1.3       | 1.0              | 6             | 0.4                                      | 0.6 | 1.6                                    | 2.2  | 316 250<br>106 330 | mixed              |               |
| -         | 2.0       | 1.8              | -             | 3.5                                      | 5.0 | -                                      | -    |                    |                    |               |
| -         | 1.3       | 1.0              | 6             | 0.4                                      | 0.6 | 1.2                                    | 1.8  | 430 250<br>106 330 | mixed              |               |
| -         | 2.0       | 1.8              | -             | 3.5                                      | 5.0 | -                                      | -    |                    |                    |               |

# GEMISCHT/MEHRPOLIG HOCHSTROM | HYBRIDE/MULTIPOLE HIGH CURRENT

## KONTAKTFIGURATION SERIE B+K | CONTACTFIGURATION SERIES B+K



| Soldersided seen                                                                    |                                                                                     | Order-No. | Standart Group | Watertight Group | High Voltage (HV) |              |         |                |            | Low Voltage (LV) |            |              |          |                |              |                          |                      |               |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------|----------------|------------------|-------------------|--------------|---------|----------------|------------|------------------|------------|--------------|----------|----------------|--------------|--------------------------|----------------------|---------------|
|     |    |           |                |                  | Nb of contacts    | ø Dielectric | AWG max | Us (kV r.m.s.) | Us (kV dc) | Nb of contacts   | ø A        | Contact Type |          | Us (kV r.m.s.) | Us (kV dc)   | Test Voltage (kV r.m.s.) | Test Voltage (kV dc) | Rated Current |
| Male contact                                                                        | Female contact                                                                      |           |                |                  |                   | mm           |         | kV             | kV         |                  | mm         | To solder    | To crimp | kV             | kV           | kV                       | kV                   | A             |
|    |    | 702       | 1B             | 1K               | 1                 | 2.0          | 26      | 2.1            | 3.0        | 2                | 1.3        | ●            | ○        | 0.40           | 0.60         | 1.2                      | 1.8                  | 12.0          |
|    |    | 731       | 1B             | 1K               | 2                 | 0.7          | -       | -              | -          | 1                | 1.3        | ●            | ○        | 0.40           | 0.60         | 1.2                      | 1.8                  | 12.0          |
|    |    | 704       | 2B             | 2K               | 1                 | 2.0          | 20      | 2.1            | 3.0        | 4                | 0.7        | ●            | ○        | 0.40           | 0.60         | 1.2                      | 1.8                  | 5.0           |
|    |    | 718       | 3B             | -                | 1                 | 2.0          | 22      | 3.0            | -          | 18               | 0.7        | ●            | ●        | -              | 0.60         | -                        | 2.0                  | 5.5           |
|   |   | 740       | 3B             | -                | 2                 | 2.0          | 22      | 3.0            | -          | 10               | 0.7        | ●            | ●        | -              | 0.60         | -                        | 2.0                  | 5.5           |
|  |  | 745       | 4B             | 4K               | 2                 | 2.0          | 22      | 5.6            | 8.0        | 16               | 0.9        | ●            | ●        | 0.63           | 0.90         | 1.9                      | 2.7                  | 7.0           |
|   |  | 752       | 5B             | 5K               | 2                 | 3.8          | 14      | 1.5            | 2.2        | 20<br>2          | 1.3<br>1.6 | ●<br>●       | ●<br>○   | 0.53<br>0.90   | 0.70<br>1.30 | 1.6<br>2.9               | 2.3<br>4.1           | 10.0<br>10.0  |
|   |  | 759       | 5B             | 5K               | 2                 | 2.0          | 22      | 5.6            | 8.0        | 54               | 0.9        | ●            | ●        | 0.53           | 0.70         | 1.6                      | 2.3                  | 3.0           |



# GEMISCHT/MEHRPOLIG HOCHSTROM | HYBRIDE/MULTIPOLE HIGH CURRENT PVC-ISOLIERTE KOMBINATIONSKABEL | PVC-INSULATED COMBINATION CABLES

|                                                                                     | Lead Time |      | Price | Order-No. | Amount of Order | Wave impedance   | Constructed of                                                                                               | Twisting                    | Tape           | Screen |        | Outer Sheath |    |
|-------------------------------------------------------------------------------------|-----------|------|-------|-----------|-----------------|------------------|--------------------------------------------------------------------------------------------------------------|-----------------------------|----------------|--------|--------|--------------|----|
|                                                                                     | Stk.      | Req. | €/m   |           |                 |                  |                                                                                                              |                             |                | Mat.   | Mat.   | Ø            |    |
|    | x         | -    | 3.38  | 317 440   | m               | $\Omega (\pm 2)$ |                                                                                                              |                             |                |        |        |              | mm |
|    | x         | -    | 4.97  | 317 480   | 20/100          | 50               | 1 coax cable type RG 174 A/U<br>as well as 4 control wires 14x0.15 mm<br>cross section 0.25 mm <sup>2</sup>  | RG 174+<br>control<br>wires | PETP-<br>Folie | CuSn   | PVC gr | 7.2          |    |
|    | x         | -    | 6.03  | 417 410   | 20/100          | 50               | 1 coax cable type RG 174 A/U<br>as well as 8 control wires 14x0.15 mm<br>cross section 0.25 mm <sup>2</sup>  | RG 174+<br>control<br>wires | PETP-<br>Folie | CuSn   | PVC gr | 7.3          |    |
|  | x         | -    | 5.58  | 321 740   | 20/100          | 50               | 1 coax cable type RG 174 A/U<br>as well as 14 control wires 14x0.15 mm<br>cross section 0.25 mm <sup>2</sup> | RG 174+<br>control<br>wires | PETP-<br>Folie | CuSn   | PVC gr | 10.0         |    |
|  | x         | -    |       |           | 20/100          | 50               | 1 coax cable type RG 174 A/U<br>as well as 6 control wires 18x0.10 mm<br>cross section 0.14 mm <sup>2</sup>  | RG 174+<br>control<br>wires | PETP-<br>Folie | CuSn   | PVC bk | 8.0          |    |

# GEMISCHT/MEHRPOLIG HOCHSTROM | HYBRIDE/MULTIPOLE HIGH CURRENT

## KONFEKTIONIERUNGSANLEITUNG | ASSEMBLING INSTRUCTIONS



Due to different cables,  
please ask for the stripping length





## MATERIALIEN | MATERIALS

### SERIE-Y | SERIES-Y



|  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|

Part number example see page 3

### Housings (Y-series)

| Reference | Material |
|-----------|----------|
| C         | Brass    |

Detailed characteristics of these materials are presented on table.



|  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|

Part number example see page 3

### Insulators (Y-series)

| Reference | Material or form | Note |
|-----------|------------------|------|
| L         | PEEK             | ●    |
| T         | PTFE             | ●    |

Detailed characteristics of these materials are presented on table.



|  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|

Part number example see page 3

### Contacts (Y-series)

### Contacts for plugs, free or fixed sockets

| Reference | Contact type  |
|-----------|---------------|
| A         | Male solder   |
| L         | Female solder |

### Material and treatment

| Component<br>(see picture page 16) | Material (Standard)          | Surface treatment (µm) |    |     |     |
|------------------------------------|------------------------------|------------------------|----|-----|-----|
|                                    |                              | Cu                     | Ni | Cr  | Au  |
| Outer shell and collet nut         | Brass (ASTM C 385)           | 0.5                    | 3  | 0.3 |     |
| Earthing crown                     | Cu-Be (FS-QQ-C-530)          | 0.5                    | 3  |     | 1.5 |
| Latch sleeve                       | Special brass                | 0.5                    | 3  | 0.3 |     |
| Locking ring                       | Brass (ASTM C 385)           | 0.5                    | 3  |     |     |
| Inner sleeve                       | Brass (ASTM C 385)           | 0.5                    | 3  |     |     |
| Other metallic parts               | Brass (ASTM C 385)           | 0.5                    | 3  |     |     |
| O-ring                             | Silicone rubber (ASTM D 200) |                        |    |     |     |
| Insulator                          | PTFE (ASTM D 1457-83)        |                        |    |     |     |
|                                    | PEEK (MIL-P-46183)           |                        |    |     |     |
| Male contact                       | Brass (ASTM C 385)           | 0.5                    | 3  |     | 1.5 |
| Female contact                     | Cu-Be (FS-QQ-C-530)          | 0.5                    | 3  |     | 2.0 |

The surface treatment standards are as follows:

- Nickel FS-QQ-N-290A
- Chrome FS-QQ-C-320B
- Gold MIL-G-45204C type I, class 1.

# MATERIALIEN | MATERIALS

## SERIE B+K | SERIES B+K



Part number example see page 3

### Housings (B + K series)

| Ref.     | Material                      | Surface treatment          |                                 | Note |
|----------|-------------------------------|----------------------------|---------------------------------|------|
|          |                               | Outer shell and collet nut | Latch sleeve and earthing crown |      |
| <b>C</b> | Brass                         | chrome                     | nickel                          | ●    |
| <b>N</b> | Brass                         | nickel                     | nickel                          | ○    |
| <b>K</b> | Brass                         | black chrome               | nickel                          | ○    |
| <b>S</b> | Stainless steel               | without treatment          | nickel-plated brass             | ○    |
| <b>T</b> | Stainless steel               | without treatment          | stainless steel                 | ○    |
| <b>U</b> | Stainless steel <sup>1)</sup> | without treatment          | stainless steel                 | ○    |
| <b>L</b> | Aluminium alloy <sup>2)</sup> | anodized                   | nickel-plated brass             | ○    |
| <b>G</b> | PEEK <sup>3)</sup>            | without treatment          | nickel-plated brass             | ○    |
| <b>P</b> | PSU <sup>4)</sup>             | without treatment          | nickel-plated brass             | ○    |
| <b>R</b> | PPSU <sup>5)</sup>            | without treatment          | nickel-plated brass             | ○    |
| <b>X</b> | Avional <sup>6)</sup>         | nickel                     | nickel-plated brass             | ○    |

#### Note:

detailed characteristics of these materials and treatments are presented on Unipole/Multipole catalogue.

<sup>1)</sup> the other metallic parts are in stainless steel.

<sup>2)</sup> the „variant“ position of the reference is used to specify the anodized colour.

<sup>3)</sup> only available for FGG and ENG models of the B series.

<sup>4)</sup> only available for ENY and FGY models of the B series. For the colour, see the „variant“ position.

<sup>5)</sup> only available for ENY and FGY models of the B series.

<sup>6)</sup> anthracite colour.

● First choice alternative

○ Special order alternative



Part number example see page 3

### Insulators (B + K series)

| Reference | Material |
|-----------|----------|
| <b>L</b>  | PEEK     |

Detailed characteristics of these materials are presented on Unipole/Multipole catalogue.



Part number example see page 3

### Contacts (B + K series)

#### Contacts for plugs, free or fixed sockets

| Reference | Contact type                     |
|-----------|----------------------------------|
| <b>A</b>  | Male solder                      |
| <b>C</b>  | Male crimp (fig.1) <sup>1)</sup> |
| <b>B</b>  | Male crimp (fig.2) <sup>1)</sup> |
| <b>G</b>  | Male crimp (fig.2) <sup>1)</sup> |

| Reference | Contact type                       |
|-----------|------------------------------------|
| <b>L</b>  | Female solder                      |
| <b>M</b>  | Female crimp (fig.1) <sup>1)</sup> |
| <b>P</b>  | Female crimp (fig.2) <sup>1)</sup> |
| <b>U</b>  | Female crimp (fig.2) <sup>1)</sup> |

#### Note:

<sup>1)</sup> there are two forms of crimp barrels. Please consult adjacent table for contact selection and see Unipole/Multipole catalogue.



## MATERIALIEN | MATERIALS

### SERIE S+E | SERIES S+E



Part number example see page 3

## Housings (S + E series)

| Ref. | Material                      | Surface treatment          |                                 | Note |
|------|-------------------------------|----------------------------|---------------------------------|------|
|      |                               | Outer shell and collet nut | Latch sleeve and earthing crown |      |
| C    | Brass <sup>1)</sup>           | chrome                     | nickel                          | ●    |
| D    | Brass                         | gold-plated                | nickel                          | ○    |
| N    | Brass                         | nickel                     | nickel                          | ○    |
| K    | Brass                         | black chrome               | nickel                          | ○    |
| S    | Stainless steel               | without treatment          | nickel-plated brass             | ○    |
| T    | Stainless steel               | without treatment          | stainless steel                 | ○    |
| U    | Stainless steel <sup>2)</sup> | without treatment          | stainless steel                 | ○    |
| L    | Aluminium alloy <sup>3)</sup> | anodized                   | nickel-plated brass             | ○    |
| B    | POM black <sup>4)</sup>       | without treatment          | nickel-plated brass             | ○    |
| G    | PEEK <sup>4)</sup>            | without treatment          | nickel-plated brass             | ○    |
| P    | PSU <sup>5)</sup>             | without treatment          | nickel-plated brass             | ○    |
| R    | PPSU <sup>6)</sup>            | without treatment          | nickel-plated brass             | ○    |

### Note:

detailed characteristics of these materials are presented on Unipole/Multipole catalogue.

<sup>1)</sup> in the E series the latch sleeve is chrome-plated.

<sup>2)</sup> the other metallic components are in stainless steel.

<sup>3)</sup> the „variant“ position of the reference is used to specify the anodized colour.

<sup>4)</sup> only available for FFP, ERN and PCP models of the S series.

<sup>5)</sup> available only for the FFL model of the S series.

<sup>6)</sup> See colours in „variant“ position. available only for the FFL model of the S series.

● First choice alternative  
○ Special order alternative



Part number example see page 3

## Insulators (S + E series)

| Reference | Material or form   | Note |
|-----------|--------------------|------|
| L         | PEEK               | ●    |
| T         | PTFE <sup>1)</sup> | ●    |

### Note:

detailed characteristics of these materials are presented on Unipole/Multipole catalogue.

<sup>1)</sup> only for unipole types.

● First choice alternative      ○ Special order alternative



Part number example see page 3

## Contacts (S + E series)

### Contacts for plugs, free or fixed sockets

| Ref. | Contact type                  |
|------|-------------------------------|
| A    | Male solder                   |
| C    | Male crimp <sup>1) 4)</sup>   |
| L    | Female solder                 |
| M    | Female crimp <sup>2) 4)</sup> |

### Note:

<sup>1)</sup> for the FFS model of the 00 series and FFA or FFL models of the S series.

<sup>2)</sup> for the PSS model of the 00 series and PCA or PSA models of the S series.

<sup>3)</sup> for the FTA model of the S series.

<sup>4)</sup> for conductor range that can fit with crimp contacts consult Unipole/ Multipole catalogue.

### Contacts for couplers

| Ref. | Contact type    | unipole | multipole |
|------|-----------------|---------|-----------|
| A    | Male - Female   | ○       | —         |
| L    | Female - Male   | ○       | ●         |
| M    | Female - Female | ●       | ○         |

Multipole connectors are fitted with hermaphroditic inserts including male and female contacts. However, by convention, the letter indicating the contact type in the part number composition will be the male contact (reference A) for plugs and female contact (reference A) for sockets. In case of an odd number of contacts, the letter of reference corresponds to the one with the large number of contacts. For example, a 309 type connector with contact (reference A) will include 5 male and 4 female contacts.

**For RAD and SWH fixed couplers, the first contact type mentioned is always the one at the flange end.** Connectors can be configured „inverted“ i.e. plugs equipped with female contacts (reference L), sockets with male contacts (reference A). This solution is particularly useful when plugs are mated to a coupler and it is essential to respect contact alignment.

# SPANNZANGEN | COLLETS

## SERIE Y | SERIES Y



| Reference |    | Serie | ø Collet (mm) |      | ø Cable (mm) |      | Part number of the collet <sup>1)</sup> | Lead time |
|-----------|----|-------|---------------|------|--------------|------|-----------------------------------------|-----------|
| Type      | ø  |       | ø A           | ø B  | max.         | min. |                                         |           |
| C         | 17 | 1Y    | 1.7           | –    | 1.6          | 1.3  | FFA.1S.717.CN                           | ○         |
| C         | 22 |       | 2.2           | –    | 2.1          | 1.7  | FFA.1S.722.CN                           | ○         |
| C         | 27 |       | 2.7           | –    | 2.6          | 2.2  | FFA.1S.727.CN                           | ●         |
| C         | 32 |       | 3.2           | –    | 3.1          | 2.6  | FFA.1S.732.CN                           | ●         |
| C         | 37 |       | 3.7           | –    | 3.6          | 2.7  | FFA.1S.737.CN                           | ●         |
| C         | 42 |       | 4.2           | –    | 4.1          | 3.3  | FFA.1S.742.CN                           | ●         |
| C         | 47 |       | 4.7           | –    | 4.6          | 3.8  | FFA.1S.747.CN                           | ●         |
| C         | 52 |       | 5.2           | –    | 5.1          | 4.3  | FFA.1S.752.CN                           | ●         |
| C         | 57 |       | 5.7           | –    | 5.6          | 4.8  | FFA.1S.757.CN                           | ●         |
| C         | 62 |       | 6.2           | 5.2  | 6.1          | 5.3  | FFA.1S.762.CN                           | ●         |
| C         | 66 |       | 6.6           | 5.5  | 6.5          | 5.9  | FFA.1S.766.CN                           | ●         |
| C         | 68 |       | 6.8           | 5.5  | 6.7          | 6.0  | FFA.1S.768.CN                           | ○         |
| C         | 42 | 3Y    | 4.2           | –    | 4.0          | 3.1  | FFA.3S.742.CN                           | ○         |
| C         | 52 |       | 5.2           | –    | 5.0          | 4.1  | FFA.3S.752.CN                           | ●         |
| C         | 57 |       | 5.7           | –    | 5.5          | 4.6  | FFA.3S.757.CN                           | ●         |
| C         | 62 |       | 6.2           | –    | 6.0          | 5.1  | FFA.3S.762.CN                           | ●         |
| C         | 67 |       | 6.7           | –    | 6.5          | 5.6  | FFA.3S.767.CN                           | ●         |
| C         | 72 |       | 7.2           | –    | 7.0          | 6.1  | FFA.3S.772.CN                           | ●         |
| C         | 77 |       | 7.7           | –    | 7.5          | 6.6  | FFA.3S.777.CN                           | ●         |
| C         | 82 |       | 8.2           | –    | 8.0          | 7.1  | FFA.3S.782.CN                           | ●         |
| C         | 87 |       | 8.7           | –    | 8.5          | 7.6  | FFA.3S.787.CN                           | ●         |
| C         | 92 |       | 9.2           | 8.7  | 9.0          | 8.1  | FFA.3S.792.CN                           | ●         |
| C         | 97 |       | 9.7           | 8.7  | 9.5          | 9.1  | FFA.3S.797.CN                           | ●         |
| C         | 10 |       | 10.2          | 8.7  | 10.0         | 9.6  | FFA.3S.710.CN                           | ○         |
| C         | 11 |       | 10.7          | 8.7  | 10.5         | 10.1 | FFA.3S.711.CN                           | ●         |
| C         | 12 | 6Y    | 12.2          | 12.2 | 12.0         | 11.1 | FFB.6Y.712.CN                           | ●         |
| C         | 14 |       | 14.2          | 14.2 | 14.0         | 13.1 | FFB.6Y.714.CN                           | ●         |
| C         | 21 |       | 21.2          | 21.2 | 21.0         | 20.0 | FFB.6Y.721.CN                           | ●         |
| C         | 27 |       | 26.6          | 23.0 | 26.4         | 25.5 | FFB.6Y.727.CN                           | ○         |
| C         | 29 |       | 29.0          | 24.5 | 28.8         | 27.9 | FFB.6Y.729.CN                           | ○         |
| C         | 30 |       | 30.2          | 27.2 | 30.0         | 29.1 | FFB.6Y.730.CN                           | ●         |

### Note:

<sup>1)</sup> for ordering collets separately.

● on stock

○ on request

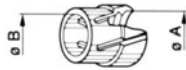


Part number example see page 3

# SPANNZANGEN | COLLETS SERIE B | SERIES B



## D and M type collets

|  |    |       |               |      |              |  |  |  |                                                |                               |
|-----------------------------------------------------------------------------------|----|-------|---------------|------|--------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------|-------------------------------|
| Reference                                                                         |    | Serie | ø Collet (mm) |      | ø Cable (mm) |                                                                                     | Part number of the collet <sup>1)</sup>                                             | Part number of the reducer <sup>2)</sup>                                            | Part number of the reducing cone <sup>2)</sup> | Part number of the collet nut |
| Type                                                                              | ø  |       | ø A           | ø B  | max.         | min.                                                                                |                                                                                     |                                                                                     |                                                |                               |
| M                                                                                 | 27 | 1B    | 2.7           | –    | 2.6          | 2.2                                                                                 | FFC.00.727.CN                                                                       | FGG.1B.138.LN                                                                       | FGG.1B.158.LN                                  | FGG.1B.130.LC                 |
| M                                                                                 | 31 |       | 3.1           | –    | 3.0          | 2.6                                                                                 | FFC.00.731.CN                                                                       | FGG.1B.138.LN                                                                       | FGG.1B.158.LN                                  | FGG.1B.130.LC                 |
| D                                                                                 | 42 |       | 4.2           | –    | 4.0          | 3.1                                                                                 | FGG.1B.742.DN                                                                       | –                                                                                   | –                                              | FGG.1B.130.LC                 |
| D                                                                                 | 52 |       | 5.2           | –    | 5.0          | 4.1                                                                                 | FGG.1B.752.DN                                                                       | –                                                                                   | –                                              | FGG.1B.130.LC                 |
| D                                                                                 | 62 |       | 6.2           | –    | 6.0          | 5.1                                                                                 | FGG.1B.762.DN                                                                       | –                                                                                   | –                                              | FGG.1B.130.LC                 |
| D                                                                                 | 72 |       | 7.2           | 6.7  | 7.0          | 6.1                                                                                 | FGG.1B.772.DN                                                                       | –                                                                                   | –                                              | FGG.1B.130.LC                 |
| D                                                                                 | 76 |       | 7.6           | 6.7  | 7.5          | 7.1                                                                                 | FGG.1B.776.DN <sup>3)</sup>                                                         | –                                                                                   | –                                              | FGG.1B.132.LC                 |
| M                                                                                 | 21 | 2B    | 2.1           | –    | 2.0          | 1.5                                                                                 | FGG.0B.721.DN                                                                       | FGG.2B.138.LN                                                                       | FGG.2B.158.LN                                  | FGG.2B.130.LC                 |
| M                                                                                 | 31 |       | 3.1           | –    | 3.0          | 2.1                                                                                 | FGG.0B.731.DN                                                                       | FGG.2B.138.LN                                                                       | FGG.2B.158.LN                                  | FGG.2B.130.LC                 |
| M                                                                                 | 42 |       | 4.2           | –    | 4.0          | 3.1                                                                                 | FGG.0B.742.DN                                                                       | FGG.2B.138.LN                                                                       | FGG.2B.158.LN                                  | FGG.2B.130.LC                 |
| D                                                                                 | 52 |       | 5.2           | –    | 5.0          | 4.1                                                                                 | FGG.2B.752.DN                                                                       | –                                                                                   | –                                              | FGG.2B.130.LC                 |
| D                                                                                 | 62 |       | 6.2           | –    | 6.0          | 5.1                                                                                 | FGG.2B.762.DN                                                                       | –                                                                                   | –                                              | FGG.2B.130.LC                 |
| D                                                                                 | 72 |       | 7.2           | –    | 7.0          | 6.1                                                                                 | FGG.2B.772.DN                                                                       | –                                                                                   | –                                              | FGG.2B.130.LC                 |
| D                                                                                 | 82 |       | 8.2           | –    | 8.0          | 7.1                                                                                 | FGG.2B.782.DN                                                                       | –                                                                                   | –                                              | FGG.2B.130.LC                 |
| D                                                                                 | 92 |       | 9.2           | 8.6  | 9.0          | 8.1                                                                                 | FGG.2B.792.DN                                                                       | –                                                                                   | –                                              | FGG.2B.130.LC                 |
| D                                                                                 | 99 |       | 9.9           | 8.6  | 9.7          | 9.1                                                                                 | FGG.2B.799.DN <sup>3)</sup>                                                         | –                                                                                   | –                                              | FGG.2B.132.LC                 |
| M                                                                                 | 52 | 3B    | 5.2           | –    | 5.0          | 4.1                                                                                 | FGG.1B.752.DN                                                                       | FGG.3B.138.LN                                                                       | FGG.3B.158.LN                                  | FGG.3B.130.LC                 |
| D                                                                                 | 62 |       | 6.2           | –    | 6.0          | 5.1                                                                                 | FGG.3B.762.DN                                                                       | –                                                                                   | –                                              | FGG.3B.130.LC                 |
| D                                                                                 | 72 |       | 7.2           | –    | 7.0          | 6.1                                                                                 | FGG.3B.772.DN                                                                       | –                                                                                   | –                                              | FGG.3B.130.LC                 |
| D                                                                                 | 82 |       | 8.2           | –    | 8.0          | 7.1                                                                                 | FGG.3B.782.DN                                                                       | –                                                                                   | –                                              | FGG.3B.130.LC                 |
| D                                                                                 | 92 |       | 9.2           | –    | 9.0          | 8.1                                                                                 | FGG.3B.792.DN                                                                       | –                                                                                   | –                                              | FGG.3B.130.LC                 |
| D                                                                                 | 10 |       | 10.2          | –    | 10.0         | 9.1                                                                                 | FGG.3B.710.DN                                                                       | –                                                                                   | –                                              | FGG.3B.130.LC                 |
| D                                                                                 | 11 |       | 11.2          | 10.2 | 11.0         | 10.1                                                                                | FGG.3B.711.DN                                                                       | –                                                                                   | –                                              | FGG.3B.130.LC                 |
| D                                                                                 | 12 |       | 11.9          | 10.2 | 11.7         | 11.1                                                                                | FGG.3B.712.DN <sup>3)</sup>                                                         | –                                                                                   | –                                              | FGG.3B.132.LC                 |

### Note:

- <sup>1)</sup> for ordering collets separately.
- <sup>2)</sup> for ordering an M type collet, a reducer and its reducing cone should also be ordered.
- <sup>3)</sup> these collets cannot be used for connector models with nut for fitting a bend relief.

All dimensions are in millimetres.

## SPANNZANGEN | COLLETS

### SERIE B | SERIES B



### D and M type collets

| Reference |    | Serie | ø Collet (mm) |      | ø Cable (mm) |      | Part number of the collet <sup>1)</sup> | Part number of the reducer <sup>2)</sup> | Part number of the reducing cone <sup>2)</sup> | Part number of the collet nut |
|-----------|----|-------|---------------|------|--------------|------|-----------------------------------------|------------------------------------------|------------------------------------------------|-------------------------------|
| Type      | ø  |       | ø A           | ø B  | max.         | min. |                                         |                                          |                                                |                               |
| M         | 62 | 4B    | 6.2           | –    | 6.0          | 5.1  | FGG.2B.762.DN                           | FGG.4B.138.LN                            | FGG.4B.158.LN                                  | FGG.4B.130.LC                 |
| M         | 72 |       | 7.2           | –    | 7.0          | 6.1  | FGG.2B.772.DN                           | FGG.4B.138.LN                            | FGG.4B.158.LN                                  | FGG.4B.130.LC                 |
| M         | 82 |       | 8.2           | –    | 8.0          | 7.1  | FGG.2B.782.DN                           | FGG.4B.138.LN                            | FGG.4B.158.LN                                  | FGG.4B.130.LC                 |
| M         | 92 |       | 9.2           | 8.6  | 9.0          | 8.1  | FGG.2B.792.DN                           | FGG.4B.138.LN                            | FGG.4B.158.LN                                  | FGG.4B.130.LC                 |
| D         | 10 |       | 10.8          | –    | 10.5         | 9.1  | FGG.4B.710.DN                           | –                                        | –                                              | FGG.4B.130.LC                 |
| D         | 12 |       | 12.3          | –    | 12.0         | 10.6 | FGG.4B.712.DN                           | –                                        | –                                              | FGG.4B.130.LC                 |
| D         | 13 |       | 13.8          | 12.5 | 13.5         | 12.1 | FGG.4B.713.DN                           | –                                        | –                                              | FGG.4B.130.LC                 |
| D         | 15 |       | 15.3          | 12.5 | 15.0         | 13.6 | FGG.4B.715.DN                           | –                                        | –                                              | FGG.4B.130.LC                 |
| D         | 16 |       | 16.3          | 12.5 | 16.0         | 15.1 | FGG.4B.716.DN <sup>3)</sup>             | –                                        | –                                              | FGG.4B.132.LC                 |
| D         | 11 | 5B    | 11.8          | –    | 11.5         | 9.6  | FGG.5B.711.DN                           | –                                        | –                                              | FGG.5B.130.LC                 |
| D         | 13 |       | 13.8          | –    | 13.5         | 11.6 | FGG.5B.713.DN                           | –                                        | –                                              | FGG.5B.130.LC                 |
| D         | 15 |       | 15.8          | –    | 15.5         | 13.6 | FGG.5B.715.DN                           | –                                        | –                                              | FGG.5B.130.LC                 |
| D         | 17 |       | 17.8          | –    | 17.5         | 15.6 | FGG.5B.717.DN <sup>3)</sup>             | –                                        | –                                              | FGG.5B.130.LC                 |
| D         | 19 |       | 19.8          | –    | 19.5         | 17.6 | FGG.5B.719.DN <sup>3)</sup>             | –                                        | –                                              | FGG.5B.130.LC                 |
| D         | 21 |       | 21.8          | –    | 21.5         | 19.6 | FGG.5B.721.DN <sup>3)</sup>             | –                                        | –                                              | FGG.5B.130.LC                 |
| D         | 23 |       | 23.8          | 21.8 | 23.5         | 21.6 | FGG.5B.723.DN <sup>3)</sup>             | –                                        | –                                              | FGG.5B.130.LC                 |
| D         | 25 |       | 25.3          | 21.8 | 25.0         | 23.6 | FGG.5B.725.DN <sup>3)</sup>             | –                                        | –                                              | FGG.5B.132.LC                 |

### Bend relief collet nut and bend relief



| Reference |           | Serie | Part number of the collet nut | Bend relief to be used <sup>1)</sup> |
|-----------|-----------|-------|-------------------------------|--------------------------------------|
| Type      | ø         |       |                               |                                      |
| M         | 27 and 31 | 1B    | FFM.1B.130.LC                 | GMA.1B.***.●●                        |
| D         | 42 to 72  |       | FFM.1B.130.LC                 | GMA.1B.***.●●                        |
| M         | 21 and 31 | 2B    | FFM.2B.132.LC                 | GMA.0B.***.●●                        |
| M         | 42        |       | FFM.2B.130.LC                 | GMA.2B.***.●●                        |
| D         | 52 to 92  |       | FFM.2B.130.LC                 | GMA.2B.***.●●                        |
| M         | 52        | 3B    | FFM.3B.131.LC                 | GMA.1B.***.●●                        |
| D         | 62 to 11  |       | FFM.3B.130.LC                 | GMA.3B.***.●●                        |
| M         | 62 and 72 | 4B    | FFM.4B.132.LC                 | GMA.2B.***.●●                        |
| M         | 82 and 92 |       | FFM.4B.130.LC                 | GMA.4B.***.●●                        |
| D         | 10 to 15  |       | FFM.4B.130.LC                 | GMA.4B.***.●●                        |
| D         | 11 to 15  | 5B    | FFM.5B.130.LC                 | GMA.4B.***.●●                        |

#### Note:

- <sup>1)</sup> for ordering collet separately.
- <sup>2)</sup> for ordering an M type collet, a reducer and its reducing cone should also be ordered.
- <sup>3)</sup> these collets cannot be used for connector models with collet nut for fitting a bend relief.

#### Note:

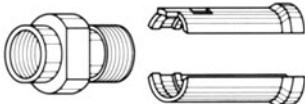
- <sup>1)</sup> the bend relief is to be ordered separately (see page 80). All dimensions are in millimetres.



Part number example see page 3

# SPANNZANGEN | COLLETS SERIE K | SERIES K

## C + K type collets

|  |    |       |               |      |              |      |  |                                                                                     |  |
|-----------------------------------------------------------------------------------|----|-------|---------------|------|--------------|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Reference                                                                         |    | Serie | ø Collet (mm) |      | ø Cable (mm) |      | Part number of the collet system <sup>1)</sup>                                      | Part number of the oversize collet and of the two split centre-pieces <sup>2)</sup> | Part number of the collet nut <sup>2)</sup>                                         |
| Type                                                                              | ø  |       | ø A           | ø B  | max.         | min. |                                                                                     |                                                                                     |                                                                                     |
| C                                                                                 | 15 | 1K    | 1.6           | –    | 1.5          | 1.3  | FFA.1E.715.CNS                                                                      | –                                                                                   | FFA.1E.130.LC                                                                       |
| C                                                                                 | 20 |       | 2.2           | –    | 2.0          | 1.6  | FFA.1E.720.CNS                                                                      | –                                                                                   | FFA.1E.130.LC                                                                       |
| C                                                                                 | 25 |       | 3.2           | –    | 2.5          | 2.1  | FFA.1E.725.CNS                                                                      | –                                                                                   | FFA.1E.130.LC                                                                       |
| C                                                                                 | 30 |       | 3.2           | –    | 3.0          | 2.6  | FFA.1E.730.CNS                                                                      | –                                                                                   | FFA.1E.130.LC                                                                       |
| C                                                                                 | 35 |       | 4.2           | –    | 3.5          | 3.1  | FFA.1E.735.CNS                                                                      | –                                                                                   | FFA.1E.130.LC                                                                       |
| C                                                                                 | 40 |       | 4.2           | –    | 4.0          | 3.6  | FFA.1E.740.CNS                                                                      | –                                                                                   | FFA.1E.130.LC                                                                       |
| C                                                                                 | 45 |       | 5.2           | –    | 4.5          | 4.1  | FFA.1E.745.CNS                                                                      | –                                                                                   | FFA.1E.130.LC                                                                       |
| C                                                                                 | 50 |       | 5.2           | –    | 5.0          | 4.6  | FFA.1E.750.CNS                                                                      | –                                                                                   | FFA.1E.130.LC                                                                       |
| C                                                                                 | 55 |       | 6.2           | 6.2  | 5.5          | 5.1  | FFA.1E.755.CNS                                                                      | –                                                                                   | FFA.1E.130.LC                                                                       |
| C                                                                                 | 60 |       | 6.2           | 6.2  | 6.0          | 5.6  | FFA.1E.760.CNS                                                                      | –                                                                                   | FFA.1E.130.LC                                                                       |
| C                                                                                 | 65 |       | 7.2           | 6.7  | 6.5          | 6.1  | FFA.1E.765.CNS                                                                      | –                                                                                   | FFA.1E.130.LC                                                                       |
| K                                                                                 | 70 |       | 7.2           | –    | 7.0          | 6.6  | FFA.2E.770.CNS                                                                      | FFA.1K.137.LCN                                                                      | FFA.2E.130.LC <sup>2)</sup>                                                         |
| K                                                                                 | 75 |       | 8.2           | 8.2  | 7.5          | 7.1  | FFA.2E.775.CNS                                                                      | FFA.1K.137.LCN                                                                      | FFA.2E.130.LC <sup>2)</sup>                                                         |
| K                                                                                 | 80 |       | 8.2           | 8.2  | 8.0          | 7.6  | FFA.2E.780.CNS                                                                      | FFA.1K.137.LCN                                                                      | FFA.2E.130.LC <sup>2)</sup>                                                         |
| K                                                                                 | 85 |       | 9.2           | 8.6  | 8.5          | 8.1  | FFA.2E.785.CNS                                                                      | FFA.1K.137.LCN                                                                      | FFA.2E.130.LC <sup>2)</sup>                                                         |
| C                                                                                 | 15 | 2K    | 2.2           | –    | 1.5          | 1.3  | FFA.2E.715.CNS                                                                      | –                                                                                   | FFA.2E.130.LC                                                                       |
| C                                                                                 | 20 |       | 2.2           | –    | 2.0          | 1.6  | FFA.2E.720.CNS                                                                      | –                                                                                   | FFA.2E.130.LC                                                                       |
| C                                                                                 | 25 |       | 3.2           | –    | 2.5          | 2.1  | FFA.2E.725.CNS                                                                      | –                                                                                   | FFA.2E.130.LC                                                                       |
| C                                                                                 | 30 |       | 3.2           | –    | 3.0          | 2.6  | FFA.2E.730.CNS                                                                      | –                                                                                   | FFA.2E.130.LC                                                                       |
| C                                                                                 | 35 |       | 4.2           | –    | 3.5          | 3.1  | FFA.2E.735.CNS                                                                      | –                                                                                   | FFA.2E.130.LC                                                                       |
| C                                                                                 | 40 |       | 4.2           | –    | 4.0          | 3.6  | FFA.2E.740.CNS                                                                      | –                                                                                   | FFA.2E.130.LC                                                                       |
| C                                                                                 | 45 |       | 5.2           | –    | 4.5          | 4.1  | FFA.2E.745.CNS                                                                      | –                                                                                   | FFA.2E.130.LC                                                                       |
| C                                                                                 | 50 |       | 5.2           | –    | 5.0          | 4.6  | FFA.2E.750.CNS                                                                      | –                                                                                   | FFA.2E.130.LC                                                                       |
| C                                                                                 | 55 |       | 6.2           | –    | 5.5          | 5.1  | FFA.2E.755.CNS                                                                      | –                                                                                   | FFA.2E.130.LC                                                                       |
| C                                                                                 | 60 |       | 6.2           | –    | 6.0          | 5.6  | FFA.2E.760.CNS                                                                      | –                                                                                   | FFA.2E.130.LC                                                                       |
| C                                                                                 | 65 |       | 7.2           | –    | 6.5          | 6.1  | FFA.2E.765.CNS                                                                      | –                                                                                   | FFA.2E.130.LC                                                                       |
| C                                                                                 | 70 |       | 7.2           | –    | 7.0          | 6.6  | FFA.2E.770.CNS                                                                      | –                                                                                   | FFA.2E.130.LC                                                                       |
| C                                                                                 | 75 |       | 8.2           | 8.2  | 7.5          | 7.1  | FFA.2E.775.CNS                                                                      | –                                                                                   | FFA.2E.130.LC                                                                       |
| C                                                                                 | 80 |       | 8.2           | 8.2  | 8.0          | 7.6  | FFA.2E.780.CNS                                                                      | –                                                                                   | FFA.2E.130.LC                                                                       |
| C                                                                                 | 85 |       | 9.2           | 8.6  | 8.5          | 8.1  | FFA.2E.785.CNS                                                                      | –                                                                                   | FFA.2E.130.LC                                                                       |
| K                                                                                 | 90 |       | 9.2           | –    | 9.0          | 8.6  | FFA.3E.790.CNS                                                                      | FFA.2K.137.LCN                                                                      | FFA.3E.130.LC <sup>2)</sup>                                                         |
| K                                                                                 | 95 |       | 10.2          | 10.2 | 9.5          | 9.1  | FFA.3E.795.CNS                                                                      | FFA.2K.137.LCN                                                                      | FFA.3E.130.LC <sup>2)</sup>                                                         |
| K                                                                                 | 10 |       | 10.2          | 10.2 | 10.0         | 9.6  | FFA.3E.710.CNS                                                                      | FFA.2K.137.LCN                                                                      | FFA.3E.130.LC <sup>2)</sup>                                                         |
| K                                                                                 | 11 |       | 11.2          | 10.6 | 11.0         | 10.1 | FFA.3E.711.CNS                                                                      | FFA.2K.137.LCN                                                                      | FFA.3E.130.LC <sup>2)</sup>                                                         |

### Note:

<sup>1)</sup> for ordering the collet system separately.

<sup>2)</sup> for ordering the K type collet, the oversize collet and the split centre-pieces, as well as the corresponding collet nut should also be ordered.  
All dimensions are in millimetres.

# SPANNZANGEN COLLETS

## SERIE K SERIES K



### C + K type collets



| Reference |    | Serie | ø Collet (mm) |      | ø Cable (mm) |      | Part number of the collet system <sup>1)</sup> | Part number of the oversize collet and of the two split centre-pieces <sup>2)</sup> | Part number of the collet nut <sup>2)</sup> |
|-----------|----|-------|---------------|------|--------------|------|------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------|
| Type      | ø  |       | ø A           | ø B  | max.         | min. |                                                |                                                                                     |                                             |
| C         | 30 | 3K    | 3.2           | —    | 3.0          | 2.6  | FFA.3E.730.CNS                                 | —                                                                                   | FFA.3E.130.LC                               |
| C         | 35 |       | 4.2           | —    | 3.5          | 3.1  | FFA.3E.735.CNS                                 | —                                                                                   | FFA.3E.130.LC                               |
| C         | 40 |       | 4.2           | —    | 4.0          | 3.6  | FFA.3E.740.CNS                                 | —                                                                                   | FFA.3E.130.LC                               |
| C         | 45 |       | 5.2           | —    | 4.5          | 4.1  | FFA.3E.745.CNS                                 | —                                                                                   | FFA.3E.130.LC                               |
| C         | 50 |       | 5.2           | —    | 5.0          | 4.6  | FFA.3E.750.CNS                                 | —                                                                                   | FFA.3E.130.LC                               |
| C         | 55 |       | 6.2           | —    | 5.5          | 5.1  | FFA.3E.755.CNS                                 | —                                                                                   | FFA.3E.130.LC                               |
| C         | 60 |       | 6.2           | —    | 6.0          | 5.6  | FFA.3E.760.CNS                                 | —                                                                                   | FFA.3E.130.LC                               |
| C         | 65 |       | 7.2           | —    | 6.5          | 6.1  | FFA.3E.765.CNS                                 | —                                                                                   | FFA.3E.130.LC                               |
| C         | 70 |       | 7.2           | —    | 7.0          | 6.6  | FFA.3E.770.CNS                                 | —                                                                                   | FFA.3E.130.LC                               |
| C         | 75 |       | 8.2           | —    | 7.5          | 7.1  | FFA.3E.775.CNS                                 | —                                                                                   | FFA.3E.130.LC                               |
| C         | 80 |       | 8.2           | —    | 8.0          | 7.6  | FFA.3E.780.CNS                                 | —                                                                                   | FFA.3E.130.LC                               |
| C         | 85 |       | 9.2           | —    | 8.5          | 8.1  | FFA.3E.785.CNS                                 | —                                                                                   | FFA.3E.130.LC                               |
| C         | 90 |       | 9.2           | —    | 9.0          | 8.6  | FFA.3E.790.CNS                                 | —                                                                                   | FFA.3E.130.LC                               |
| C         | 95 |       | 10.2          | 10.2 | 9.5          | 9.1  | FFA.3E.795.CNS                                 | —                                                                                   | FFA.3E.130.LC                               |
| C         | 10 |       | 10.2          | 10.2 | 10.0         | 9.6  | FFA.3E.710.CNS                                 | —                                                                                   | FFA.3E.130.LC                               |
| C         | 11 |       | 11.2          | 11.2 | 10.5         | 10.1 | FFA.3E.711.CNS                                 | —                                                                                   | FFA.3E.130.LC                               |
| K         | 11 |       | 12.3          | —    | 12.0         | 10.6 | FFA.4E.711.CNS                                 | FFA.3K.137.LCN                                                                      | FFA.4E.130.LC <sup>2)</sup>                 |
| K         | 12 |       | 13.8          | 13.8 | 12.8         | 12.1 | FFA.4E.712.CNS                                 | FFA.3K.137.LCN                                                                      | FFA.4E.130.LC <sup>2)</sup>                 |
| K         | 13 |       | 13.8          | 13.8 | 13.5         | 12.9 | FFA.4E.713.CNS                                 | FFA.3K.137.LCN                                                                      | FFA.4E.130.LC <sup>2)</sup>                 |
| K         | 14 |       | 15.3          | 15.3 | 14.0         | 13.6 | FFA.4E.714.CNS                                 | FFA.3K.137.LCN                                                                      | FFA.4E.130.LC <sup>2)</sup>                 |
| K         | 15 |       | 15.3          | 15.3 | 15.0         | 14.1 | FFA.4E.715.CNS                                 | FFA.3K.137.LCN                                                                      | FFA.4E.130.LC <sup>2)</sup>                 |
| C         | 50 | 4K    | 6.3           | —    | 5.0          | 4.8  | FFA.4E.750.CNS                                 | —                                                                                   | FFA.4E.130.LC                               |
| C         | 55 |       | 6.3           | —    | 5.5          | 5.1  | FFA.4E.755.CNS                                 | —                                                                                   | FFA.4E.130.LC                               |
| C         | 60 |       | 6.3           | —    | 6.0          | 5.6  | FFA.4E.760.CNS                                 | —                                                                                   | FFA.4E.130.LC                               |
| C         | 65 |       | 7.3           | —    | 6.5          | 6.1  | FFA.4E.765.CNS                                 | —                                                                                   | FFA.4E.130.LC                               |
| C         | 70 |       | 7.3           | —    | 7.0          | 6.6  | FFA.4E.770.CNS                                 | —                                                                                   | FFA.4E.130.LC                               |
| C         | 75 |       | 8.3           | —    | 7.5          | 7.1  | FFA.4E.775.CNS                                 | —                                                                                   | FFA.4E.130.LC                               |
| C         | 80 |       | 8.3           | —    | 8.0          | 7.6  | FFA.4E.780.CNS                                 | —                                                                                   | FFA.4E.130.LC                               |
| C         | 85 |       | 9.3           | —    | 8.5          | 8.1  | FFA.4E.785.CNS                                 | —                                                                                   | FFA.4E.130.LC                               |
| C         | 90 |       | 9.3           | —    | 9.0          | 8.6  | FFA.4E.790.CNS                                 | —                                                                                   | FFA.4E.130.LC                               |
| C         | 95 |       | 10.8          | —    | 9.5          | 9.1  | FFA.4E.795.CNS                                 | —                                                                                   | FFA.4E.130.LC                               |
| C         | 10 |       | 10.8          | —    | 10.5         | 9.6  | FFA.4E.710.CNS                                 | —                                                                                   | FFA.4E.130.LC                               |
| C         | 11 |       | 12.3          | —    | 12.0         | 10.6 | FFA.4E.711.CNS                                 | —                                                                                   | FFA.4E.130.LC                               |
| C         | 12 |       | 13.8          | 13.8 | 12.8         | 12.1 | FFA.4E.712.CNS                                 | —                                                                                   | FFA.4E.130.LC                               |
| C         | 13 |       | 13.8          | 13.8 | 13.5         | 12.9 | FFA.4E.713.CNS                                 | —                                                                                   | FFA.4E.130.LC                               |
| C         | 14 |       | 15.3          | 15.3 | 14.0         | 13.6 | FFA.4E.714.CNS                                 | —                                                                                   | FFA.4E.130.LC                               |
| C         | 15 |       | 15.3          | 15.3 | 15.0         | 14.1 | FFA.4E.715.CNS                                 | —                                                                                   | FFA.4E.130.LC                               |
| K         | 16 |       | 17.8          | —    | 16.5         | 15.6 | FFA.4K.716.CNS                                 | FFA.4K.137.LCN <sup>3)</sup>                                                        | FFA.4K.136.LC <sup>2)</sup>                 |
| K         | 17 |       | 17.8          | —    | 17.5         | 16.6 | FFA.4K.717.CNS                                 | FFA.4K.137.LCN                                                                      | FFA.4K.136.LC <sup>2)</sup>                 |
| K         | 18 |       | 19.8          | —    | 18.5         | 17.6 | FFA.4K.718.CNS                                 | FFA.4K.137.LCN                                                                      | FFA.4K.136.LC <sup>2)</sup>                 |
| K         | 19 |       | 19.8          | —    | 19.5         | 18.6 | FFA.4K.719.CNS                                 | FFA.4K.137.LCN                                                                      | FFA.4K.136.LC <sup>2)</sup>                 |
| K         | 20 |       | 21.8          | —    | 20.5         | 19.6 | FFA.4K.720.CNS                                 | FFA.4K.137.LCN                                                                      | FFA.4K.136.LC <sup>2)</sup>                 |
| K         | 21 |       | 21.8          | —    | 21.5         | 20.6 | FFA.4K.721.CNS                                 | FFA.4K.137.LCN                                                                      | FFA.4K.136.LC <sup>2)</sup>                 |
| K         | 22 |       | 23.8          | 23.8 | 22.5         | 21.6 | FFA.4K.722.CNS                                 | FFA.4K.137.LCN                                                                      | FFA.4K.136.LC <sup>2)</sup>                 |
| K         | 23 |       | 23.8          | 23.8 | 23.5         | 22.6 | FFA.4K.723.CNS                                 | FFA.4K.137.LCN                                                                      | FFA.4K.136.LC <sup>2)</sup>                 |

**Note:** <sup>1)</sup> for ordering the collet system separately.  
<sup>2)</sup> for ordering the K type collet, the oversize collet and the split centre-pieces, as well as the corresponding collet nut should also be ordered.

<sup>3)</sup> in 4K series, the centre-piece is made of one piece.

All dimensions are in millimetres.



Part number example see page 3

## SPANNZANGEN | COLLETS

### SERIE K | SERIES K

### C type collets

|  |    |       |               |      |              |      |  |                               |
|-----------------------------------------------------------------------------------|----|-------|---------------|------|--------------|------|-------------------------------------------------------------------------------------|-------------------------------|
| Reference                                                                         |    | Serie | ø Collet (mm) |      | ø Cable (mm) |      | Part number of the collet system <sup>1)</sup>                                      | Part number of the collet nut |
| Type                                                                              | ø  |       | ø A           | ø B  | max.         | min. |                                                                                     |                               |
| C                                                                                 | 10 | 5K    | 11.8          | –    | 10.5         | 9.6  | FFA.5K.710.CNS                                                                      | FFA.5K.130.LC                 |
| C                                                                                 | 11 |       | 11.8          | –    | 11.5         | 10.6 | FFA.5K.711.CNS                                                                      | FFA.5K.130.LC                 |
| C                                                                                 | 12 |       | 13.8          | –    | 12.5         | 11.6 | FFA.5K.712.CNS                                                                      | FFA.5K.130.LC                 |
| C                                                                                 | 13 |       | 13.8          | –    | 13.5         | 12.6 | FFA.5K.713.CNS                                                                      | FFA.5K.130.LC                 |
| C                                                                                 | 14 |       | 15.8          | –    | 14.5         | 13.6 | FFA.5K.714.CNS                                                                      | FFA.5K.130.LC                 |
| C                                                                                 | 15 |       | 15.8          | –    | 15.5         | 14.6 | FFA.5K.715.CNS                                                                      | FFA.5K.130.LC                 |
| C                                                                                 | 16 |       | 17.8          | –    | 16.5         | 15.6 | FFA.5K.716.CNS                                                                      | FFA.5K.130.LC                 |
| C                                                                                 | 17 |       | 17.8          | –    | 17.5         | 16.6 | FFA.5K.717.CNS                                                                      | FFA.5K.130.LC                 |
| C                                                                                 | 18 |       | 19.8          | –    | 18.5         | 17.6 | FFA.5K.718.CNS                                                                      | FFA.5K.130.LC                 |
| C                                                                                 | 19 |       | 19.8          | –    | 19.5         | 18.6 | FFA.5K.719.CNS                                                                      | FFA.5K.130.LC                 |
| C                                                                                 | 20 |       | 21.8          | –    | 20.5         | 19.6 | FFA.5K.720.CNS                                                                      | FFA.5K.130.LC                 |
| C                                                                                 | 21 |       | 21.8          | –    | 21.5         | 20.6 | FFA.5K.721.CNS                                                                      | FFA.5K.130.LC                 |
| C                                                                                 | 22 |       | 23.8          | 23.8 | 22.5         | 21.6 | FFA.5K.722.CNS                                                                      | FFA.5K.130.LC                 |
| C                                                                                 | 23 |       | 23.8          | 23.8 | 23.5         | 22.6 | FFA.5K.723.CNS                                                                      | FFA.5K.130.LC                 |

**Note:**

<sup>1)</sup> for ordering the collet system separately.

### Bend relief collet nut and bend relief

|  |          |       |  |                                      |  |
|-------------------------------------------------------------------------------------|----------|-------|---------------------------------------------------------------------------------------|--------------------------------------|--|
| Reference                                                                           |          | Serie | Part number of the collet nut                                                         | Bend relief to be used <sup>1)</sup> |  |
| Type                                                                                | ø        |       |                                                                                       |                                      |  |
| C                                                                                   | 15 to 65 | 1K    | FFM.1E.130.LC                                                                         | GMA.1B.●●●.●●                        |  |
| K                                                                                   | 70 to 85 |       | FFM.2E.130.LC                                                                         | GMA.2B.●●●.●●                        |  |
| C                                                                                   | 15 to 85 | 2K    | FFM.2E.130.LC                                                                         | GMA.2B.●●●.●●                        |  |
| K                                                                                   | 90 to 11 |       | FFM.3E.130.LC                                                                         | GMA.3B.●●●.●●                        |  |
| C                                                                                   | 30 to 10 | 3K    | FFM.3E.130.LC                                                                         | GMA.3B.●●●.●●                        |  |
| K                                                                                   | 11 to 15 |       | FFM.4E.130.LC                                                                         | GMA.4B.●●●.●●                        |  |
| C                                                                                   | 50 to 15 | 4K    | FFM.4E.130.LC                                                                         | GMA.4B.●●●.●●                        |  |

**Note:**

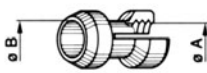
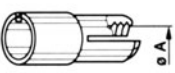
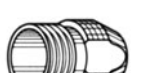
<sup>1)</sup> the bend relief is to be ordered separately (see page 80).  
All dimensions are in millimetres.

# SPANNZANGEN | COLLETS

## SERIE S | SERIES S



### C, K and L type collets

|           |    |  |               |  |              |  |                                         |  |                                                |
|-----------|----|-----------------------------------------------------------------------------------|---------------|-----------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------|-----------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------|
|           |    | C or K type collets                                                               |               | L type collet                                                                     |              |                                                                                     |                                         |                                                                                     |                                                |
| Reference |    | Serie                                                                             | ø Collet (mm) |                                                                                   | ø Cable (mm) |                                                                                     | Part number of the collet <sup>1)</sup> | Part number of the oversize collet and of the split centre-pieces <sup>3)</sup>     | Part number of the collet nut <sup>3) 5)</sup> |
| Type      | ø  |                                                                                   | ø A           | ø B                                                                               | max.         | min.                                                                                |                                         |                                                                                     |                                                |
| C         | 17 | OS                                                                                | 1.7           | –                                                                                 | 1.6          | 1.3                                                                                 | FFA.OS.717.CN                           | –                                                                                   | FFA.OS.130.LC                                  |
| C         | 22 |                                                                                   | 2.2           | –                                                                                 | 2.1          | 1.7                                                                                 | FFA.OS.722.CN                           | –                                                                                   | FFA.OS.130.LC                                  |
| C         | 27 |                                                                                   | 2.7           | –                                                                                 | 2.6          | 2.2                                                                                 | FFA.OS.727.CN                           | –                                                                                   | FFA.OS.130.LC                                  |
| C         | 32 |                                                                                   | 3.2           | –                                                                                 | 3.1          | 2.7                                                                                 | FFA.OS.732.CN                           | –                                                                                   | FFA.OS.130.LC                                  |
| C         | 37 |                                                                                   | 3.7           | –                                                                                 | 3.6          | 3.0                                                                                 | FFA.OS.737.CN                           | –                                                                                   | FFA.OS.130.LC                                  |
| C         | 42 |                                                                                   | 4.2           | 3.7                                                                               | 4.1          | 3.3                                                                                 | FFA.OS.742.CN                           | –                                                                                   | FFA.OS.130.LC                                  |
| C         | 44 |                                                                                   | 4.4           | 3.7                                                                               | 4.3          | 3.5                                                                                 | FFA.OS.744.CN                           | –                                                                                   | FFA.OS.132.LC                                  |
| K         | 47 |                                                                                   | 4.7           | –                                                                                 | 4.6          | 3.8                                                                                 | FFA.1S.747.CN                           | FFA.OS.137.LCN                                                                      | FFA.1S.130.LC                                  |
| K         | 52 |                                                                                   | 5.2           | –                                                                                 | 5.1          | 4.3                                                                                 | FFA.1S.752.CN                           | FFA.OS.137.LCN                                                                      | FFA.1S.130.LC                                  |
| K         | 57 |                                                                                   | 5.7           | –                                                                                 | 5.6          | 4.8                                                                                 | FFA.1S.757.CN                           | FFA.OS.137.LCN                                                                      | FFA.1S.130.LC                                  |
| K         | 62 |                                                                                   | 6.2           | 5.2                                                                               | 6.1          | 5.3                                                                                 | FFA.1S.762.CN                           | FFA.OS.137.LCN                                                                      | FFA.1S.130.LC                                  |
| K         | 66 |                                                                                   | 6.6           | 5.4                                                                               | 6.5          | 5.9                                                                                 | FFA.1S.766.CN                           | FFA.OS.137.LCN                                                                      | FFA.1S.131.LC                                  |
| K         | 68 |                                                                                   | 6.8           | –                                                                                 | 6.7          | 6.0                                                                                 | FFA.1S.768.CN                           | FFA.OS.137.LCN                                                                      | FFA.1S.131.LC                                  |
| C         | 17 |                                                                                   | 1.7           | –                                                                                 | 1.6          | 1.3                                                                                 | FLA.OS.717.CN <sup>4)</sup>             | –                                                                                   | FFA.OS.130.LC                                  |
| C         | 22 |                                                                                   | 2.2           | –                                                                                 | 2.1          | 1.7                                                                                 | FLA.OS.722.CN <sup>4)</sup>             | –                                                                                   | FFA.OS.130.LC                                  |
| C         | 27 |                                                                                   | 2.7           | –                                                                                 | 2.6          | 2.2                                                                                 | FLA.OS.727.CN <sup>4)</sup>             | –                                                                                   | FFA.OS.130.LC                                  |
| C         | 32 |                                                                                   | 3.2           | –                                                                                 | 3.1          | 2.7                                                                                 | FLA.OS.732.CN <sup>4)</sup>             | –                                                                                   | FFA.OS.130.LC                                  |
| C         | 37 |                                                                                   | 3.7           | –                                                                                 | 3.6          | 3.0                                                                                 | FLA.OS.737.CN <sup>4)</sup>             | –                                                                                   | FFA.OS.130.LC                                  |
| C         | 42 |                                                                                   | 4.2           | 3.7                                                                               | 4.1          | 3.3                                                                                 | FLA.OS.742.CN <sup>4)</sup>             | –                                                                                   | FFA.OS.130.LC                                  |
| C         | 44 |                                                                                   | 4.4           | 3.7                                                                               | 4.3          | 3.5                                                                                 | FLA.OS.744.CN <sup>4)</sup>             | –                                                                                   | FFA.OS.132.LC                                  |
| L         | 17 |                                                                                   | 1.7           | –                                                                                 | 1.6          | 1.3                                                                                 | FFA.OS.717.LN                           | –                                                                                   | FFA.OS.130.LC                                  |
| L         | 22 |                                                                                   | 2.2           | –                                                                                 | 2.1          | 1.7                                                                                 | FFA.OS.722.LN                           | –                                                                                   | FFA.OS.130.LC                                  |
| L         | 27 |                                                                                   | 2.7           | –                                                                                 | 2.6          | 2.2                                                                                 | FFA.OS.727.LN                           | –                                                                                   | FFA.OS.130.LC                                  |
| L         | 32 |                                                                                   | 3.2           | –                                                                                 | 3.1          | 2.7                                                                                 | FFA.OS.732.LN                           | –                                                                                   | FFA.OS.130.LC                                  |
| L         | 37 |                                                                                   | 3.7           | –                                                                                 | 3.6          | 3.0                                                                                 | FFA.OS.737.LN                           | –                                                                                   | FFA.OS.130.LC                                  |
| L         | 42 |                                                                                   | 4.2           | –                                                                                 | 4.1          | 3.3                                                                                 | FFA.OS.742.LN                           | –                                                                                   | FFA.OS.130.LC                                  |
| L         | 44 |                                                                                   | 4.4           | –                                                                                 | 4.3          | 3.5                                                                                 | FFA.OS.744.LN                           | –                                                                                   | FFA.OS.132.LC                                  |

**Note:** see following page for text of notes <sup>1)</sup> through <sup>5)</sup>.  
All dimensions are in millimetres.

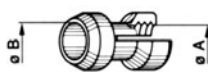
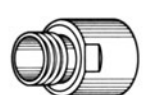
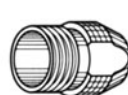


Part number example see page 3

# SPANNZANGEN | COLLETS SERIE S | SERIES S



## C, K and L type collets

|  |    |       |  |     |              |  |  |                                                                                 |                                                |
|-----------------------------------------------------------------------------------|----|-------|-----------------------------------------------------------------------------------|-----|--------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|------------------------------------------------|
| C or K type collets                                                               |    |       | L type collet                                                                     |     |              |                                                                                     |                                                                                     |                                                                                 |                                                |
| Reference                                                                         |    | Serie | ø Collet (mm)                                                                     |     | ø Cable (mm) |                                                                                     | Part number of the collet <sup>1)</sup>                                             | Part number of the oversize collet and of the split centre-pieces <sup>3)</sup> | Part number of the collet nut <sup>3) 5)</sup> |
| Type                                                                              | ø  |       | ø A                                                                               | ø B | 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                                                                               | 5.4 | 6.5          | 5.9                                                                                 | FFA.1S.766.CN                                                                       | –                                                                               | FFA.1S.131.LC                                  |
| C                                                                                 | 68 |       | 6.8                                                                               | –   | 6.7          | 6.0                                                                                 | FFA.1S.768.CN                                                                       | –                                                                               | 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>4)</sup>                                                         | –                                                                               | FFA.1S.130.LC                                  |
| C                                                                                 | 22 |       | 2.2                                                                               | –   | 2.1          | 1.7                                                                                 | FLA.1S.722.CN <sup>4)</sup>                                                         | –                                                                               | FFA.1S.130.LC                                  |
| C                                                                                 | 27 |       | 2.7                                                                               | –   | 2.6          | 2.2                                                                                 | FLA.1S.727.CN <sup>4)</sup>                                                         | –                                                                               | FFA.1S.130.LC                                  |
| C                                                                                 | 32 |       | 3.2                                                                               | –   | 3.1          | 2.6                                                                                 | FLA.1S.732.CN <sup>4)</sup>                                                         | –                                                                               | FFA.1S.130.LC                                  |
| C                                                                                 | 37 |       | 3.7                                                                               | –   | 3.6          | 2.7                                                                                 | FLA.1S.737.CN <sup>4)</sup>                                                         | –                                                                               | FFA.1S.130.LC                                  |
| C                                                                                 | 42 |       | 4.2                                                                               | –   | 4.1          | 3.3                                                                                 | FLA.1S.742.CN <sup>4)</sup>                                                         | –                                                                               | FFA.1S.130.LC                                  |
| C                                                                                 | 47 |       | 4.7                                                                               | –   | 4.6          | 3.8                                                                                 | FLA.1S.747.CN <sup>4)</sup>                                                         | –                                                                               | FFA.1S.130.LC                                  |
| C                                                                                 | 52 |       | 5.2                                                                               | –   | 5.1          | 4.3                                                                                 | FLA.1S.752.CN <sup>4)</sup>                                                         | –                                                                               | FFA.1S.130.LC                                  |
| C                                                                                 | 57 |       | 5.7                                                                               | –   | 5.6          | 4.8                                                                                 | FLA.1S.757.CN <sup>4)</sup>                                                         | –                                                                               | FFA.1S.130.LC                                  |
| C                                                                                 | 62 |       | 6.2                                                                               | 5.2 | 6.1          | 5.3                                                                                 | FLA.1S.762.CN <sup>4)</sup>                                                         | –                                                                               | FFA.1S.130.LC                                  |
| C                                                                                 | 66 |       | 6.6                                                                               | 5.4 | 6.5          | 5.9                                                                                 | FLA.1S.766.CN <sup>4)</sup>                                                         | –                                                                               | FFA.1S.131.LC                                  |
| C                                                                                 | 68 |       | 6.8                                                                               | 5.5 | 6.7          | 6.0                                                                                 | FLA.1S.768.CN <sup>4)</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                                                                       | –                                                                               | FFA.1S.131.LC                                  |

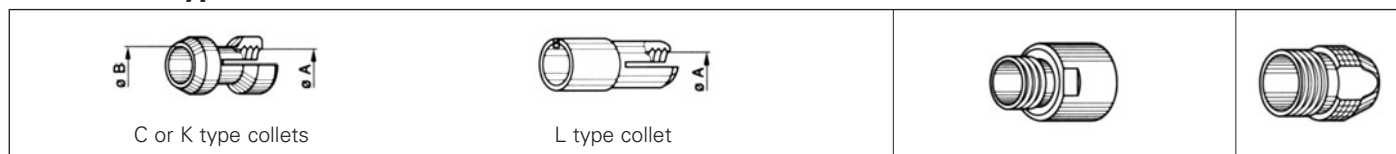
### Note:

- <sup>1)</sup> for ordering collets separately.
  - <sup>2)</sup> these collets can only be used with the FLA model.
  - <sup>3)</sup> for ordering a K type collet separately, the oversize collet and the corresponding collet nut should also be ordered.
  - <sup>4)</sup> these collets should be used with FLA, FFP and PCP models.
  - <sup>5)</sup> for models with bend relief, the FFM.●●.130.LC collet nut should be ordered (see page 76).
- All dimensions are in millimetres.

# SPANNZANGEN | COLLETS SERIE S | SERIES S



## C, K and L type collets



| Reference |    | Serie | ø Collet (mm) |     | ø Cable (mm) |      | Part number of the collet <sup>1)</sup> | Part number of the oversize collet and of the split centre-pieces <sup>3)</sup> | Part number of the collet nut <sup>3) 5)</sup> |
|-----------|----|-------|---------------|-----|--------------|------|-----------------------------------------|---------------------------------------------------------------------------------|------------------------------------------------|
| Type      | ø  |       | ø A           | ø B | max.         | min. |                                         |                                                                                 |                                                |
| C         | 17 | 2S    | 1.7           | –   | 1.6          | 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          | 9.0 | 10.5         | 10.1 | FFA.3S.711.CN                           | FFA.2S.137.LCN                                                                  | FFA.3S.130.LC                                  |
| C         | 17 |       | 1.7           | –   | 1.6          | 1.3  | FLA.2S.717.CN <sup>4)</sup>             | –                                                                               | FFA.2S.130.LC                                  |
| C         | 27 |       | 2.7           | –   | 2.5          | 1.7  | FLA.2S.727.CN <sup>4)</sup>             | –                                                                               | FFA.2S.130.LC                                  |
| C         | 32 |       | 3.2           | –   | 3.0          | 2.5  | FLA.2S.732.CN <sup>4)</sup>             | –                                                                               | FFA.2S.130.LC                                  |
| C         | 42 |       | 4.2           | –   | 4.0          | 3.1  | FLA.2S.742.CN <sup>4)</sup>             | –                                                                               | FFA.2S.130.LC                                  |
| C         | 52 |       | 5.2           | –   | 5.0          | 4.1  | FLA.2S.752.CN <sup>4)</sup>             | –                                                                               | FFA.2S.130.LC                                  |
| C         | 62 |       | 6.2           | –   | 6.0          | 5.1  | FLA.2S.762.CN <sup>4)</sup>             | –                                                                               | FFA.2S.130.LC                                  |
| C         | 72 |       | 7.2           | 6.7 | 7.0          | 6.1  | FLA.2S.772.CN <sup>4)</sup>             | –                                                                               | FFA.2S.130.LC                                  |
| C         | 77 |       | 7.7           | 6.7 | 7.5          | 7.1  | FLA.2S.777.CN <sup>4)</sup>             | –                                                                               | FFA.2S.130.LC                                  |
| C         | 82 |       | 8.2           | 6.7 | 8.0          | 7.6  | FLA.2S.782.CN <sup>4)</sup>             | –                                                                               | FFA.2S.130.LC                                  |
| C         | 87 |       | 8.7           | 6.7 | 8.5          | 8.1  | FLA.2S.787.CN <sup>4)</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           | –   | 8.0          | 7.6  | FFA.2S.782.LN                           | –                                                                               | FFA.2S.130.LC                                  |
| L         | 87 |       | 8.7           | –   | 8.5          | 8.1  | FFA.2S.787.LN                           | –                                                                               | FFA.2S.130.LC                                  |

### Note:

<sup>1)</sup> for ordering collets separately.

<sup>3)</sup> for ordering a K type collet separately, the oversize collet and the corresponding collet nut should also be ordered.

<sup>4)</sup> these collets should be used with FLA, FFP and PCP models.

<sup>5)</sup> for models with bend relief, the FFM.●●.130.LC collet nut should be ordered (see page 76).

All dimensions are in millimetres.



C or K type collets



L type collet



**Note:**

All dimensions are in millimetres.

# SPANNZANGEN COLLETS

## SERIE S SERIES S



### C, K and L type collets



| Reference |    | Serie | ø Collet (mm) |      | ø Cable (mm) |      | Part number of the collet <sup>1)</sup> | Part number of the oversize collet and of the split centre-pieces <sup>3)</sup> | Part number of the collet nut <sup>3) 5)</sup> |
|-----------|----|-------|---------------|------|--------------|------|-----------------------------------------|---------------------------------------------------------------------------------|------------------------------------------------|
| Type      | ø  |       | ø A           | ø B  | max.         | min. |                                         |                                                                                 |                                                |
| C         | 52 | 4S    | 5.2           | –    | 5.0          | 4.1  | FFA.4S.752.CN                           | –                                                                               | FFA.4S.130.LC                                  |
| C         | 62 |       | 6.2           | –    | 6.0          | 5.1  | FFA.4S.762.CN                           | –                                                                               | FFA.4S.130.LC                                  |
| C         | 72 |       | 7.2           | –    | 7.0          | 6.1  | FFA.4S.772.CN                           | –                                                                               | FFA.4S.130.LC                                  |
| C         | 82 |       | 8.2           | –    | 8.0          | 7.1  | FFA.4S.782.CN                           | –                                                                               | FFA.4S.130.LC                                  |
| C         | 92 |       | 9.2           | –    | 9.0          | 8.1  | FFA.4S.792.CN                           | –                                                                               | FFA.4S.130.LC                                  |
| C         | 10 |       | 10.2          | –    | 10.0         | 9.1  | FFA.4S.710.CN                           | –                                                                               | FFA.4S.130.LC                                  |
| C         | 11 |       | 11.2          | –    | 11.0         | 10.1 | FFA.4S.711.CN                           | –                                                                               | FFA.4S.130.LC                                  |
| C         | 12 |       | 12.2          | –    | 12.0         | 11.1 | FFA.4S.712.CN                           | –                                                                               | FFA.4S.130.LC                                  |
| C         | 13 |       | 13.2          | 12.2 | 13.0         | 12.6 | FFA.4S.713.CN                           | –                                                                               | FFA.4S.130.LC                                  |
| K         | 14 |       | 14.2          | –    | 14.0         | 13.1 | FFA.5S.714.CN                           | FFA.4S.137.LCN                                                                  | FFA.5S.130.LC                                  |
| K         | 15 |       | 15.2          | –    | 15.0         | 14.1 | FFA.5S.715.CN                           | FFA.4S.137.LCN                                                                  | FFA.5S.130.LC                                  |
| K         | 16 |       | 16.2          | –    | 16.0         | 15.1 | FFA.5S.716.CN                           | FFA.4S.137.LCN                                                                  | FFA.5S.130.LC                                  |
| K         | 17 |       | 17.2          | –    | 17.0         | 16.1 | FFA.5S.717.CN                           | FFA.4S.137.LCN                                                                  | FFA.5S.130.LC                                  |
| K         | 18 |       | 18.2          | –    | 18.0         | 17.1 | FFA.5S.718.CN                           | FFA.4S.137.LCN                                                                  | FFA.5S.130.LC                                  |
| K         | 19 |       | 19.2          | –    | 19.0         | 18.1 | FFA.5S.719.CN                           | FFA.4S.137.LCN                                                                  | FFA.5S.130.LC                                  |
| K         | 20 |       | 20.2          | 19.7 | 20.0         | 19.1 | FFA.5S.720.CN                           | FFA.4S.137.LCN                                                                  | FFA.5S.130.LC                                  |
| K         | 21 |       | 21.2          | 19.7 | 21.0         | 20.1 | FFA.5S.721.CN                           | FFA.4S.137.LCN                                                                  | FFA.5S.130.LC                                  |
| K         | 22 |       | 22.2          | 19.7 | 22.0         | 21.1 | FFA.5S.722.CN                           | FFA.4S.137.LCN                                                                  | FFA.5S.130.LC                                  |
| C         | 52 |       | 5.2           | –    | 5.0          | 4.1  | FLA.4S.752.CN <sup>4)</sup>             | –                                                                               | FFA.4S.130.LC                                  |
| C         | 62 |       | 6.2           | –    | 6.0          | 5.1  | FLA.4S.762.CN <sup>4)</sup>             | –                                                                               | FFA.4S.130.LC                                  |
| C         | 72 |       | 7.2           | –    | 7.0          | 6.1  | FLA.4S.772.CN <sup>4)</sup>             | –                                                                               | FFA.4S.130.LC                                  |
| C         | 82 |       | 8.2           | –    | 8.0          | 7.1  | FLA.4S.782.CN <sup>4)</sup>             | –                                                                               | FFA.4S.130.LC                                  |
| C         | 92 |       | 9.2           | –    | 9.0          | 8.1  | FLA.4S.792.CN <sup>4)</sup>             | –                                                                               | FFA.4S.130.LC                                  |
| C         | 10 |       | 10.2          | –    | 10.0         | 9.1  | FLA.4S.710.CN <sup>4)</sup>             | –                                                                               | FFA.4S.130.LC                                  |
| C         | 11 |       | 11.2          | –    | 11.0         | 10.1 | FLA.4S.711.CN <sup>4)</sup>             | –                                                                               | FFA.4S.130.LC                                  |
| C         | 12 |       | 12.2          | –    | 12.0         | 11.1 | FLA.4S.712.CN <sup>4)</sup>             | –                                                                               | FFA.4S.130.LC                                  |
| C         | 13 |       | 13.2          | 12.2 | 13.0         | 12.6 | FLA.4S.713.CN <sup>4)</sup>             | –                                                                               | FFA.4S.130.LC                                  |
| L         | 52 |       | 5.2           | –    | 5.0          | 4.1  | FFA.4S.752.LN                           | –                                                                               | FFA.4S.130.LC                                  |
| L         | 62 |       | 6.2           | –    | 6.0          | 5.1  | FFA.4S.762.LN                           | –                                                                               | FFA.4S.130.LC                                  |
| L         | 72 |       | 7.2           | –    | 7.0          | 6.1  | FFA.4S.772.LN                           | –                                                                               | FFA.4S.130.LC                                  |
| L         | 82 |       | 8.2           | –    | 8.0          | 7.1  | FFA.4S.782.LN                           | –                                                                               | FFA.4S.130.LC                                  |
| L         | 92 |       | 9.2           | –    | 9.0          | 8.1  | FFA.4S.792.LN                           | –                                                                               | FFA.4S.130.LC                                  |
| L         | 10 |       | 10.2          | –    | 10.0         | 9.1  | FFA.4S.710.LN                           | –                                                                               | FFA.4S.130.LC                                  |
| L         | 11 |       | 11.2          | –    | 11.0         | 10.1 | FFA.4S.711.LN                           | –                                                                               | FFA.4S.130.LC                                  |
| L         | 12 |       | 12.2          | –    | 12.0         | 11.1 | FFA.4S.712.LN                           | –                                                                               | FFA.4S.130.LC                                  |
| L         | 13 |       | 13.2          | –    | 13.0         | 12.6 | FFA.4S.713.LN                           | –                                                                               | FFA.4S.130.LC                                  |

#### Note:

<sup>1)</sup> for ordering collets separately.

<sup>3)</sup> for ordering a K type collet separately, the oversize collet and the corresponding collet nut should also be ordered.

<sup>4)</sup> these collets should be used with FLA, FFP and PCP models.

<sup>5)</sup> for models with bend relief, the FFM.●●.130.LC collet nut should be ordered (see page 76).

All dimensions are in millimetres. These notes also apply to the following page.



Part number example see page 3



# SPANNZANGEN | COLLETS SERIE S | SERIES S

## C and K type collets



C or K type collet



| Reference |    | Serie | ø Collet (mm) |      | ø Cable (mm) |      | Part number of the collet <sup>1)</sup> | Part number of the oversize collet and of the split centre-pieces <sup>3)</sup> | Part number of the collet nut <sup>3)</sup> |
|-----------|----|-------|---------------|------|--------------|------|-----------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------|
| Type      | ø  |       | ø A           | ø B  | max.         | min. |                                         |                                                                                 |                                             |
| C         | 72 | 5S    | 7.2           | –    | 7.0          | 6.1  | FFA.5S.772.CN                           | –                                                                               | FFA.5S.130.LC                               |
| C         | 82 |       | 8.2           | –    | 8.0          | 7.1  | FFA.5S.782.CN                           | –                                                                               | FFA.5S.130.LC                               |
| C         | 92 |       | 9.2           | –    | 9.0          | 8.1  | FFA.5S.792.CN                           | –                                                                               | FFA.5S.130.LC                               |
| C         | 10 |       | 10.2          | –    | 10.0         | 9.1  | FFA.5S.710.CN                           | –                                                                               | FFA.5S.130.LC                               |
| C         | 11 |       | 11.2          | –    | 11.0         | 10.1 | FFA.5S.711.CN                           | –                                                                               | FFA.5S.130.LC                               |
| C         | 12 |       | 12.2          | –    | 12.0         | 11.1 | FFA.5S.712.CN                           | –                                                                               | FFA.5S.130.LC                               |
| C         | 13 |       | 13.2          | –    | 13.0         | 12.1 | FFA.5S.713.CN                           | –                                                                               | FFA.5S.130.LC                               |
| C         | 14 |       | 14.2          | –    | 14.0         | 13.1 | FFA.5S.714.CN                           | –                                                                               | FFA.5S.130.LC                               |
| C         | 15 |       | 15.2          | –    | 15.0         | 14.1 | FFA.5S.715.CN                           | –                                                                               | FFA.5S.130.LC                               |
| C         | 16 |       | 16.2          | –    | 16.0         | 15.1 | FFA.5S.716.CN                           | –                                                                               | FFA.5S.130.LC                               |
| C         | 17 |       | 17.2          | –    | 17.0         | 16.1 | FFA.5S.717.CN                           | –                                                                               | FFA.5S.130.LC                               |
| C         | 18 |       | 18.2          | –    | 18.0         | 17.1 | FFA.5S.718.CN                           | –                                                                               | FFA.5S.130.LC                               |
| C         | 19 |       | 19.2          | –    | 19.0         | 18.1 | FFA.5S.719.CN                           | –                                                                               | FFA.5S.130.LC                               |
| C         | 20 |       | 20.2          | 19.7 | 20.0         | 19.1 | FFA.5S.720.CN                           | –                                                                               | FFA.5S.130.LC                               |
| C         | 21 |       | 21.2          | 19.7 | 21.0         | 20.1 | FFA.5S.721.CN                           | –                                                                               | FFA.5S.130.LC                               |
| C         | 22 |       | 22.2          | 19.7 | 22.0         | 21.1 | FFA.5S.722.CN                           | –                                                                               | FFA.5S.130.LC                               |
| K         | 23 |       | 23.2          | –    | 23.0         | 22.1 | FFA.6S.723.CN                           | FFA.5S.137.LCN                                                                  | FFA.6S.130.LC                               |
| K         | 24 |       | 24.2          | –    | 24.0         | 23.1 | FFA.6S.724.CN                           | FFA.5S.137.LCN                                                                  | FFA.6S.130.LC                               |
| K         | 25 |       | 25.2          | –    | 25.0         | 24.1 | FFA.6S.725.CN                           | FFA.5S.137.LCN                                                                  | FFA.6S.130.LC                               |
| K         | 26 |       | 26.2          | –    | 26.0         | 25.1 | FFA.6S.726.CN                           | FFA.5S.137.LCN                                                                  | FFA.6S.130.LC                               |
| K         | 27 |       | 27.2          | –    | 27.0         | 26.1 | FFA.6S.727.CN                           | FFA.5S.137.LCN                                                                  | FFA.6S.130.LC                               |
| K         | 28 |       | 28.2          | 27.2 | 28.0         | 27.1 | FFA.6S.728.CN                           | FFA.5S.137.LCN                                                                  | FFA.6S.130.LC                               |
| K         | 29 |       | 29.2          | 27.2 | 29.0         | 28.1 | FFA.6S.729.CN                           | FFA.5S.137.LCN                                                                  | FFA.6S.130.LC                               |
| K         | 30 |       | 30.2          | 27.2 | 30.0         | 29.1 | FFA.6S.730.CN                           | FFA.5S.137.LCN                                                                  | FFA.6S.130.LC                               |
| C         | 72 | 5S    | 7.2           | –    | 7.0          | 6.1  | FLA.5S.772.CN <sup>2)</sup>             | –                                                                               | FFA.5S.130.LC                               |
| C         | 82 |       | 8.2           | –    | 8.0          | 7.1  | FLA.5S.782.CN <sup>2)</sup>             | –                                                                               | FFA.5S.130.LC                               |
| C         | 92 |       | 9.2           | –    | 9.0          | 8.1  | FLA.5S.792.CN <sup>2)</sup>             | –                                                                               | FFA.5S.130.LC                               |
| C         | 10 |       | 10.2          | –    | 10.0         | 9.1  | FLA.5S.710.CN <sup>2)</sup>             | –                                                                               | FFA.5S.130.LC                               |
| C         | 11 |       | 11.2          | –    | 11.0         | 10.1 | FLA.5S.711.CN <sup>2)</sup>             | –                                                                               | FFA.5S.130.LC                               |
| C         | 12 |       | 12.2          | –    | 12.0         | 11.1 | FLA.5S.712.CN <sup>2)</sup>             | –                                                                               | FFA.5S.130.LC                               |
| C         | 13 |       | 13.2          | –    | 13.0         | 12.1 | FLA.5S.713.CN <sup>2)</sup>             | –                                                                               | FFA.5S.130.LC                               |
| C         | 14 |       | 14.2          | –    | 14.0         | 13.1 | FLA.5S.714.CN <sup>2)</sup>             | –                                                                               | FFA.5S.130.LC                               |
| C         | 15 |       | 15.2          | –    | 15.0         | 14.1 | FLA.5S.715.CN <sup>2)</sup>             | –                                                                               | FFA.5S.130.LC                               |
| C         | 16 |       | 16.2          | –    | 16.0         | 15.1 | FLA.5S.716.CN <sup>2)</sup>             | –                                                                               | FFA.5S.130.LC                               |
| C         | 17 |       | 17.2          | –    | 17.0         | 16.1 | FLA.5S.717.CN <sup>2)</sup>             | –                                                                               | FFA.5S.130.LC                               |
| C         | 18 |       | 18.2          | –    | 18.0         | 17.1 | FLA.5S.718.CN <sup>2)</sup>             | –                                                                               | FFA.5S.130.LC                               |
| C         | 19 |       | 19.2          | –    | 19.0         | 18.1 | FLA.5S.719.CN <sup>2)</sup>             | –                                                                               | FFA.5S.130.LC                               |
| C         | 20 |       | 20.2          | 19.7 | 20.0         | 19.1 | FLA.5S.720.CN <sup>2)</sup>             | –                                                                               | FFA.5S.130.LC                               |
| C         | 21 |       | 21.2          | 19.7 | 21.0         | 20.1 | FLA.5S.721.CN <sup>2)</sup>             | –                                                                               | FFA.5S.130.LC                               |
| C         | 22 |       | 22.2          | 19.7 | 22.0         | 21.1 | FLA.5S.722.CN <sup>2)</sup>             | –                                                                               | FFA.5S.130.LC                               |

Continuation on page 76

# SPANNZANGEN COLLETS

## SERIE S SERIES S



### L type collet



| Reference |    | Serie | ø Collet (mm) |     | ø Cable (mm) |      | Part number of the collet <sup>1)</sup> | Part number of the oversize collet and of the split centre-pieces <sup>3)</sup> | Part number of the collet nut <sup>3)</sup> |
|-----------|----|-------|---------------|-----|--------------|------|-----------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------|
| Type      | ø  |       | ø A           | ø B | max.         | min. |                                         |                                                                                 |                                             |
| L         | 92 | 5S    | 9.2           | –   | 9.0          | 8.1  | FFA.5S.792.LN                           | –                                                                               | FFA.5S.130.LC                               |
| L         | 10 |       | 10.2          | –   | 10.0         | 9.1  | FFA.5S.710.LN                           | –                                                                               | FFA.5S.130.LC                               |
| L         | 11 |       | 11.2          | –   | 11.0         | 10.1 | FFA.5S.711.LN                           | –                                                                               | FFA.5S.130.LC                               |
| L         | 12 |       | 12.2          | –   | 12.0         | 11.1 | FFA.5S.712.LN                           | –                                                                               | FFA.5S.130.LC                               |
| L         | 13 |       | 13.2          | –   | 13.0         | 12.1 | FFA.5S.713.LN                           | –                                                                               | FFA.5S.130.LC                               |
| L         | 14 |       | 14.2          | –   | 14.0         | 13.1 | FFA.5S.714.LN                           | –                                                                               | FFA.5S.130.LC                               |
| L         | 15 |       | 15.2          | –   | 15.0         | 14.1 | FFA.5S.715.LN                           | –                                                                               | FFA.5S.130.LC                               |
| L         | 16 |       | 16.2          | –   | 16.0         | 15.1 | FFA.5S.716.LN                           | –                                                                               | FFA.5S.130.LC                               |
| L         | 17 |       | 17.2          | –   | 17.0         | 16.1 | FFA.5S.717.LN                           | –                                                                               | FFA.5S.130.LC                               |
| L         | 18 |       | 18.2          | –   | 18.0         | 17.1 | FFA.5S.718.LN                           | –                                                                               | FFA.5S.130.LC                               |
| L         | 19 |       | 19.2          | –   | 19.0         | 18.1 | FFA.5S.719.LN                           | –                                                                               | FFA.5S.130.LC                               |
| L         | 20 |       | 20.2          | –   | 20.0         | 19.1 | FFA.5S.720.LN                           | –                                                                               | FFA.5S.130.LC                               |
| L         | 21 |       | 21.2          | –   | 21.0         | 20.1 | FFA.5S.721.LN                           | –                                                                               | FFA.5S.130.LC                               |

### Bend relief nut and bend relief



| Reference |          | Serie | Part number of the collet nut | Bend relief to be used <sup>1)</sup> |
|-----------|----------|-------|-------------------------------|--------------------------------------|
| Type      | ø        |       |                               |                                      |
| C         | 27 to 42 | 0S    | FFM.0S.130.LC                 | GMA.0B.0••.D•                        |
| K         | 47 to 62 |       | FFM.1S.130.LC                 | GMA.1B.0••.D•                        |
| L         | 27 to 42 |       | FFM.0S.130.LC                 | GMA.0B.0••.D•                        |
| C         | 27 to 62 | 1S    | FFM.1S.130.LC                 | GMA.1B.0••.D•                        |
| K         | 72 to 82 |       | FFM.2S.130.LC                 | GMA.2B.0••.D•                        |
| L         | 27 to 62 |       | FFM.1S.130.LC                 | GMA.1B.0••.D•                        |
| C         | 42 to 82 | 2S    | FFM.2S.130.LC                 | GMA.2B.0••.D•                        |
| K         | 92 to 10 |       | FFM.3S.130.LC                 | GMA.3B.0••.D•                        |
| L         | 42 to 82 |       | FFM.2S.130.LC                 | GMA.2B.0••.D•                        |
| C         | 52 to 10 | 3S    | FFM.3S.130.LC                 | GMA.3B.0••.D•                        |
| K         | 12 to 13 |       | FFM.4S.130.LC                 | GMA.4B.0••.D•                        |
| L         | 52 to 10 |       | FFM.3S.130.LC                 | GMA.3B.0••.D•                        |
| C         | 82 to 13 | 4S    | FFM.4S.130.LC                 | GMA.4B.0••.D•                        |
| L         | 82 to 13 |       | FFM.4S.130.LC                 | GMA.4B.0••.D•                        |

Note:

<sup>1)</sup> the bend relief is to be ordered separately (see page 80).



Part number example see page 3

# SPANNZANGEN | COLLETS SERIE E | SERIES E

## C and K type collets

| Reference |           | Serie | ø Collet (mm) |      | ø Cable (mm) |      | Part number of the collet system <sup>1)</sup> | Part number of the oversize collet and of the split centre-pieces <sup>2)</sup> | Part number of the collet nut <sup>2)</sup> |
|-----------|-----------|-------|---------------|------|--------------|------|------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------|
| Type      | ø         |       | ø A           | ø B  | max.         | min. |                                                |                                                                                 |                                             |
| <b>C</b>  | <b>10</b> | 0E    | 1.6           | –    | 1.2          | 1.0  | FFA.0E.710.CNS                                 | –                                                                               | FFA.00.130.LC                               |
| <b>C</b>  | <b>15</b> |       | 1.6           | –    | 1.5          | 1.3  | FFA.0E.715.CNS                                 | –                                                                               | FFA.00.130.LC                               |
| <b>C</b>  | <b>20</b> |       | 2.1           | –    | 2.0          | 1.6  | FFA.0E.720.CNS                                 | –                                                                               | FFA.00.130.LC                               |
| <b>C</b>  | <b>25</b> |       | 3.1           | –    | 2.5          | 2.1  | FFA.0E.725.CNS                                 | –                                                                               | FFA.00.130.LC                               |
| <b>C</b>  | <b>30</b> |       | 3.1           | –    | 3.0          | 2.6  | FFA.0E.730.CNS                                 | –                                                                               | FFA.00.130.LC                               |
| <b>C</b>  | <b>35</b> |       | 4.2           | 4.2  | 3.5          | 3.1  | FFA.0E.735.CNS                                 | –                                                                               | FFA.00.130.LC                               |
| <b>C</b>  | <b>40</b> |       | 4.2           | 4.2  | 4.0          | 3.6  | FFA.0E.740.CNS                                 | –                                                                               | FFA.00.130.LC                               |
| <b>C</b>  | <b>45</b> |       | 5.2           | 5.2  | 4.5          | 4.1  | FFA.0E.745.CNS                                 | –                                                                               | FFA.00.130.LC                               |
| <b>C</b>  | <b>50</b> |       | 5.2           | 5.2  | 5.0          | 4.6  | FFA.0E.750.CNS                                 | –                                                                               | FFA.00.130.LC                               |
| <b>C</b>  | <b>15</b> | 1E    | 1.6           | –    | 1.5          | 1.3  | FFA.1E.715.CNS                                 | –                                                                               | FFA.1E.130.LC                               |
| <b>C</b>  | <b>20</b> |       | 2.2           | –    | 2.0          | 1.6  | FFA.1E.720.CNS                                 | –                                                                               | FFA.1E.130.LC                               |
| <b>C</b>  | <b>25</b> |       | 3.2           | –    | 2.5          | 2.1  | FFA.1E.725.CNS                                 | –                                                                               | FFA.1E.130.LC                               |
| <b>C</b>  | <b>30</b> |       | 3.2           | –    | 3.0          | 2.6  | FFA.1E.730.CNS                                 | –                                                                               | FFA.1E.130.LC                               |
| <b>C</b>  | <b>35</b> |       | 4.2           | –    | 3.5          | 3.1  | FFA.1E.735.CNS                                 | –                                                                               | FFA.1E.130.LC                               |
| <b>C</b>  | <b>40</b> |       | 4.2           | –    | 4.0          | 3.6  | FFA.1E.740.CNS                                 | –                                                                               | FFA.1E.130.LC                               |
| <b>C</b>  | <b>45</b> |       | 5.2           | –    | 4.5          | 4.1  | FFA.1E.745.CNS                                 | –                                                                               | FFA.1E.130.LC                               |
| <b>C</b>  | <b>50</b> |       | 5.2           | –    | 5.0          | 4.6  | FFA.1E.750.CNS                                 | –                                                                               | FFA.1E.130.LC                               |
| <b>C</b>  | <b>55</b> |       | 6.2           | 6.2  | 5.5          | 5.1  | FFA.1E.755.CNS                                 | –                                                                               | FFA.1E.130.LC                               |
| <b>C</b>  | <b>60</b> |       | 6.2           | 6.2  | 6.0          | 5.6  | FFA.1E.760.CNS                                 | –                                                                               | FFA.1E.130.LC                               |
| <b>C</b>  | <b>65</b> |       | 7.2           | 6.7  | 6.5          | 6.1  | FFA.1E.765.CNS                                 | –                                                                               | FFA.1E.130.LC                               |
| <b>K</b>  | <b>70</b> |       | 7.2           | –    | 7.0          | 6.6  | FFA.2E.770.CNS                                 | FFA.1E.137.LCN                                                                  | FFA.2E.130.LC                               |
| <b>K</b>  | <b>75</b> |       | 8.2           | 8.2  | 7.5          | 7.1  | FFA.2E.775.CNS                                 | FFA.1E.137.LCN                                                                  | FFA.2E.130.LC                               |
| <b>K</b>  | <b>80</b> |       | 8.2           | 8.2  | 8.0          | 7.6  | FFA.2E.780.CNS                                 | FFA.1E.137.LCN                                                                  | FFA.2E.130.LC                               |
| <b>K</b>  | <b>85</b> |       | 9.2           | 8.6  | 8.5          | 8.1  | FFA.2E.785.CNS                                 | FFA.1E.137.LCN                                                                  | FFA.2E.130.LC                               |
| <b>C</b>  | <b>15</b> | 2E    | 2.2           | –    | 1.5          | 1.3  | FFA.2E.715.CNS                                 | –                                                                               | FFA.2E.130.LC                               |
| <b>C</b>  | <b>20</b> |       | 2.2           | –    | 2.0          | 1.6  | FFA.2E.720.CNS                                 | –                                                                               | FFA.2E.130.LC                               |
| <b>C</b>  | <b>25</b> |       | 3.2           | –    | 2.5          | 2.1  | FFA.2E.725.CNS                                 | –                                                                               | FFA.2E.130.LC                               |
| <b>C</b>  | <b>30</b> |       | 3.2           | –    | 3.0          | 2.6  | FFA.2E.730.CNS                                 | –                                                                               | FFA.2E.130.LC                               |
| <b>C</b>  | <b>35</b> |       | 4.2           | –    | 3.5          | 3.1  | FFA.2E.735.CNS                                 | –                                                                               | FFA.2E.130.LC                               |
| <b>C</b>  | <b>40</b> |       | 4.2           | –    | 4.0          | 3.6  | FFA.2E.740.CNS                                 | –                                                                               | FFA.2E.130.LC                               |
| <b>C</b>  | <b>45</b> |       | 5.2           | –    | 4.5          | 4.1  | FFA.2E.745.CNS                                 | –                                                                               | FFA.2E.130.LC                               |
| <b>C</b>  | <b>50</b> |       | 5.2           | –    | 5.0          | 4.6  | FFA.2E.750.CNS                                 | –                                                                               | FFA.2E.130.LC                               |
| <b>C</b>  | <b>55</b> |       | 6.2           | –    | 5.5          | 5.1  | FFA.2E.755.CNS                                 | –                                                                               | FFA.2E.130.LC                               |
| <b>C</b>  | <b>60</b> |       | 6.2           | –    | 6.0          | 5.6  | FFA.2E.760.CNS                                 | –                                                                               | FFA.2E.130.LC                               |
| <b>C</b>  | <b>65</b> |       | 7.2           | –    | 6.5          | 6.1  | FFA.2E.765.CNS                                 | –                                                                               | FFA.2E.130.LC                               |
| <b>C</b>  | <b>70</b> |       | 7.2           | –    | 7.0          | 6.6  | FFA.2E.770.CNS                                 | –                                                                               | FFA.2E.130.LC                               |
| <b>C</b>  | <b>75</b> |       | 8.2           | 8.2  | 7.5          | 7.1  | FFA.2E.775.CNS                                 | –                                                                               | FFA.2E.130.LC                               |
| <b>C</b>  | <b>80</b> |       | 8.2           | 8.2  | 8.0          | 7.6  | FFA.2E.780.CNS                                 | –                                                                               | FFA.2E.130.LC                               |
| <b>C</b>  | <b>85</b> |       | 9.2           | 8.6  | 8.5          | 8.1  | FFA.2E.785.CNS                                 | –                                                                               | FFA.2E.130.LC                               |
| <b>K</b>  | <b>90</b> |       | 9.2           | –    | 9.0          | 8.6  | FFA.3E.790.CNS                                 | FFA.2E.137.LCN                                                                  | FFA.3E.130.LC                               |
| <b>K</b>  | <b>95</b> |       | 10.2          | 10.2 | 9.5          | 9.1  | FFA.3E.795.CNS                                 | FFA.2E.137.LCN                                                                  | FFA.3E.130.LC                               |
| <b>K</b>  | <b>10</b> |       | 10.2          | 10.2 | 10.0         | 9.6  | FFA.3E.710.CNS                                 | FFA.2E.137.LCN                                                                  | FFA.3E.130.LC                               |
| <b>K</b>  | <b>11</b> |       | 11.2          | 10.6 | 11.0         | 10.1 | FFA.3E.711.CNS                                 | FFA.2E.137.LCN                                                                  | FFA.3E.130.LC                               |

### Note:

<sup>1)</sup> for ordering the collet system separately.

<sup>2)</sup> for ordering a K type collet separately, the oversize collet and the corresponding collet nut should also be ordered (see page 79).

All dimensions are in millimetres.

# SPANNZANGEN COLLETS

## SERIE E SERIES E



### C and K type collets



| Reference |    | Serie | ø Collet (mm) |      | ø Cable (mm) |      | Part number of the collet system <sup>1)</sup> | Part number of the oversize collet and of the split centre-pieces <sup>2)</sup> | Part number of the collet nut <sup>2)</sup> |
|-----------|----|-------|---------------|------|--------------|------|------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------|
| Type      | ø  |       | ø A           | ø B  | max.         | min. |                                                |                                                                                 |                                             |
| C         | 30 | 3E    | 3.2           | –    | 3.0          | 2.6  | FFA.3E.730.CNS                                 | –                                                                               | FFA.3E.130.LC                               |
| C         | 35 |       | 4.2           | –    | 3.5          | 3.1  | FFA.3E.735.CNS                                 | –                                                                               | FFA.3E.130.LC                               |
| C         | 40 |       | 4.2           | –    | 4.0          | 3.6  | FFA.3E.740.CNS                                 | –                                                                               | FFA.3E.130.LC                               |
| C         | 45 |       | 5.2           | –    | 4.5          | 4.1  | FFA.3E.745.CNS                                 | –                                                                               | FFA.3E.130.LC                               |
| C         | 50 |       | 5.2           | –    | 5.0          | 4.6  | FFA.3E.750.CNS                                 | –                                                                               | FFA.3E.130.LC                               |
| C         | 55 |       | 6.2           | –    | 5.5          | 5.1  | FFA.3E.755.CNS                                 | –                                                                               | FFA.3E.130.LC                               |
| C         | 60 |       | 6.2           | –    | 6.0          | 5.6  | FFA.3E.760.CNS                                 | –                                                                               | FFA.3E.130.LC                               |
| C         | 65 |       | 7.2           | –    | 6.5          | 6.1  | FFA.3E.765.CNS                                 | –                                                                               | FFA.3E.130.LC                               |
| C         | 70 |       | 7.2           | –    | 7.0          | 6.6  | FFA.3E.770.CNS                                 | –                                                                               | FFA.3E.130.LC                               |
| C         | 75 |       | 8.2           | –    | 7.5          | 7.1  | FFA.3E.775.CNS                                 | –                                                                               | FFA.3E.130.LC                               |
| C         | 80 |       | 8.2           | –    | 8.0          | 7.6  | FFA.3E.780.CNS                                 | –                                                                               | FFA.3E.130.LC                               |
| C         | 85 |       | 9.2           | –    | 8.5          | 8.1  | FFA.3E.785.CNS                                 | –                                                                               | FFA.3E.130.LC                               |
| C         | 90 |       | 9.2           | –    | 9.0          | 8.6  | FFA.3E.790.CNS                                 | –                                                                               | FFA.3E.130.LC                               |
| C         | 95 |       | 10.2          | 10.2 | 9.5          | 9.1  | FFA.3E.795.CNS                                 | –                                                                               | FFA.3E.130.LC                               |
| C         | 10 |       | 10.2          | 10.2 | 10.0         | 9.6  | FFA.3E.710.CNS                                 | –                                                                               | FFA.3E.130.LC                               |
| C         | 11 |       | 11.2          | 11.2 | 11.0         | 10.1 | FFA.3E.711.CNS                                 | –                                                                               | FFA.3E.130.LC                               |
| K         | 11 |       | 12.3          | –    | 12.0         | 10.6 | FFA.4E.711.CNS                                 | FFA.3E.137.LCN                                                                  | FFA.4E.130.LC                               |
| K         | 12 |       | 13.8          | 13.8 | 12.8         | 12.1 | FFA.4E.712.CNS                                 | FFA.3E.137.LCN                                                                  | FFA.4E.130.LC                               |
| K         | 13 |       | 13.8          | 13.8 | 13.5         | 12.9 | FFA.4E.713.CNS                                 | FFA.3E.137.LCN                                                                  | FFA.4E.130.LC                               |
| K         | 14 |       | 15.3          | 15.3 | 14.0         | 13.6 | FFA.4E.714.CNS                                 | FFA.3E.137.LCN                                                                  | FFA.4E.130.LC                               |
| K         | 15 |       | 15.3          | 15.3 | 15.0         | 14.1 | FFA.4E.715.CNS                                 | FFA.3E.137.LCN                                                                  | FFA.4E.130.LC                               |
| C         | 50 | 4E    | 6.3           | –    | 5.0          | 4.6  | FFA.4E.750.CNS                                 | –                                                                               | FFA.4E.130.LC                               |
| C         | 55 |       | 6.3           | –    | 5.5          | 5.1  | FFA.4E.755.CNS                                 | –                                                                               | FFA.4E.130.LC                               |
| C         | 60 |       | 6.3           | –    | 6.0          | 5.6  | FFA.4E.760.CNS                                 | –                                                                               | FFA.4E.130.LC                               |
| C         | 65 |       | 7.3           | –    | 6.5          | 6.1  | FFA.4E.765.CNS                                 | –                                                                               | FFA.4E.130.LC                               |
| C         | 70 |       | 7.3           | –    | 7.0          | 6.6  | FFA.4E.770.CNS                                 | –                                                                               | FFA.4E.130.LC                               |
| C         | 75 |       | 8.3           | –    | 7.5          | 7.1  | FFA.4E.775.CNS                                 | –                                                                               | FFA.4E.130.LC                               |
| C         | 80 |       | 8.3           | –    | 8.0          | 7.6  | FFA.4E.780.CNS                                 | –                                                                               | FFA.4E.130.LC                               |
| C         | 85 |       | 9.3           | –    | 8.5          | 8.1  | FFA.4E.785.CNS                                 | –                                                                               | FFA.4E.130.LC                               |
| C         | 90 |       | 9.3           | –    | 9.0          | 8.6  | FFA.4E.790.CNS                                 | –                                                                               | FFA.4E.130.LC                               |
| C         | 95 |       | 10.8          | –    | 9.5          | 9.1  | FFA.4E.795.CNS                                 | –                                                                               | FFA.4E.130.LC                               |
| C         | 10 |       | 10.8          | –    | 10.5         | 9.6  | FFA.4E.710.CNS                                 | –                                                                               | FFA.4E.130.LC                               |
| C         | 11 |       | 12.3          | –    | 12.0         | 10.6 | FFA.4E.711.CNS                                 | –                                                                               | FFA.4E.130.LC                               |
| C         | 12 |       | 13.8          | 13.8 | 12.8         | 12.1 | FFA.4E.712.CNS                                 | –                                                                               | FFA.4E.130.LC                               |
| C         | 13 |       | 13.8          | 13.8 | 13.5         | 12.9 | FFA.4E.713.CNS                                 | –                                                                               | FFA.4E.130.LC                               |
| C         | 14 |       | 15.3          | 15.3 | 14.0         | 13.6 | FFA.4E.714.CNS                                 | –                                                                               | FFA.4E.130.LC                               |
| C         | 15 |       | 15.3          | 15.3 | 15.0         | 14.1 | FFA.4E.715.CNS                                 | –                                                                               | FFA.4E.130.LC                               |
| K         | 16 |       | 17.8          | –    | 16.5         | 15.6 | FFA.4K.716.CNS                                 | FFA.4E.137.LCN <sup>3)</sup>                                                    | FFA.4K.136.LC                               |
| K         | 17 |       | 17.8          | –    | 17.5         | 16.6 | FFA.4K.717.CNS                                 | FFA.4E.137.LCN                                                                  | FFA.4K.136.LC                               |
| K         | 18 |       | 19.8          | –    | 18.5         | 17.6 | FFA.4K.718.CNS                                 | FFA.4E.137.LCN                                                                  | FFA.4K.136.LC                               |
| K         | 19 |       | 19.8          | –    | 19.5         | 18.6 | FFA.4K.719.CNS                                 | FFA.4E.137.LCN                                                                  | FFA.4K.136.LC                               |
| K         | 20 |       | 21.8          | –    | 20.5         | 19.6 | FFA.4K.720.CNS                                 | FFA.4E.137.LCN                                                                  | FFA.4K.136.LC                               |
| K         | 21 |       | 21.8          | –    | 21.5         | 20.6 | FFA.4K.721.CNS                                 | FFA.4E.137.LCN                                                                  | FFA.4K.136.LC                               |
| K         | 22 |       | 23.8          | 23.8 | 22.5         | 21.6 | FFA.4K.722.CNS                                 | FFA.4E.137.LCN                                                                  | FFA.4K.136.LC                               |
| K         | 23 |       | 23.8          | 23.8 | 23.5         | 22.6 | FFA.4K.723.CNS                                 | FFA.4E.137.LCN                                                                  | FFA.4K.136.LC                               |

**Note:** <sup>1)</sup> for ordering the collet system separately.

<sup>2)</sup> for ordering a K type collet separately, the oversize collet and the corresponding collet nut should also be ordered (see page 79).

<sup>3)</sup> in 4E series, the centre-piece is made of one piece. All dimensions are in millimetres.



Part number example see page 3

# SPANNZANGEN | COLLETS SERIE E | SERIES E



## C type collets

| Reference |    | Serie | ø Collet (mm) |      | ø Cable (mm) |      | Part number of the collet system <sup>1)</sup> | Part number of the collet nut |
|-----------|----|-------|---------------|------|--------------|------|------------------------------------------------|-------------------------------|
| Type      | ø  |       | ø A           | ø B  | max.         | min. |                                                |                               |
| C         | 10 | 5E    | 11.8          | –    | 10.5         | 9.6  | FFA.5K.710.CNS                                 | FFA.5K.130.LC                 |
| C         | 11 |       | 11.8          | –    | 11.5         | 10.6 | FFA.5K.711.CNS                                 | FFA.5K.130.LC                 |
| C         | 12 |       | 13.8          | –    | 12.5         | 11.6 | FFA.5K.712.CNS                                 | FFA.5K.130.LC                 |
| C         | 13 |       | 13.8          | –    | 13.5         | 12.6 | FFA.5K.713.CNS                                 | FFA.5K.130.LC                 |
| C         | 14 |       | 15.8          | –    | 14.5         | 13.6 | FFA.5K.714.CNS                                 | FFA.5K.130.LC                 |
| C         | 15 |       | 15.8          | –    | 15.5         | 14.6 | FFA.5K.715.CNS                                 | FFA.5K.130.LC                 |
| C         | 16 |       | 17.8          | –    | 16.5         | 15.6 | FFA.5K.716.CNS                                 | FFA.5K.130.LC                 |
| C         | 17 |       | 17.8          | –    | 17.5         | 16.6 | FFA.5K.717.CNS                                 | FFA.5K.130.LC                 |
| C         | 18 |       | 19.8          | –    | 18.5         | 17.6 | FFA.5K.718.CNS                                 | FFA.5K.130.LC                 |
| C         | 19 |       | 19.8          | –    | 19.5         | 18.6 | FFA.5K.719.CNS                                 | FFA.5K.130.LC                 |
| C         | 20 |       | 21.8          | –    | 20.5         | 19.6 | FFA.5K.720.CNS                                 | FFA.5K.130.LC                 |
| C         | 21 |       | 21.8          | –    | 21.5         | 20.6 | FFA.5K.721.CNS                                 | FFA.5K.130.LC                 |
| C         | 22 |       | 23.8          | 23.8 | 22.5         | 21.6 | FFA.5K.722.CNS                                 | FFA.5K.130.LC                 |
| C         | 23 |       | 23.8          | 23.8 | 23.5         | 22.6 | FFA.5K.723.CNS                                 | FFA.5K.130.LC                 |

**Note:**

<sup>1)</sup> for ordering the collet system separately.

## Bend relief nut and bend relief

| Reference |          | Serie | Part number of the collet nut | Bend relief to be used <sup>1)</sup> |
|-----------|----------|-------|-------------------------------|--------------------------------------|
| Type      | ø        |       |                               |                                      |
| C         | 10 to 50 | 0E    | FFM.0E.130.LC                 | GMA.0B.***.●●                        |
| C         | 15 to 65 | 1E    | FFM.1E.130.LC                 | GMA.1B.***.●●                        |
| K         | 70 to 85 |       | FFM.2E.130.LC                 | GMA.2B.***.●●                        |
| C         | 15 to 85 | 2E    | FFM.2E.130.LC                 | GMA.2B.***.●●                        |
| K         | 90 to 11 |       | FFM.3E.130.LC                 | GMA.3B.***.●●                        |
| C         | 30 to 10 | 3E    | FFM.3E.130.LC                 | GMA.3B.***.●●                        |
| K         | 11 to 15 |       | FFM.4E.130.LC                 | GMA.4B.***.●●                        |
| C         | 50 to 15 | 4E    | FFM.4E.130.LC                 | GMA.4B.***.●●                        |

**Note:**

<sup>1)</sup> the bend relief is to be ordered separately (see page 80).

All dimensions are in millimetres.



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2820 Gentofte  
Tel: (+45) 45 20 44 00  
Fax: (+45) 45 20 44 01  
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### NORWAY / ICELAND

#### LEMO Norway A/S

Stanseveien 6B  
0975 Oslo  
Tel: (+47) 22 91 70 40  
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info-no@lemo.com

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#### LEMO France Sàrl

165, avenue Jean Jaurès  
94700 Maisons Alfort  
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Barcelona  
Tel: (+34 93) 860 44 20  
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info-es@lemo.com

### GERMANY

#### LEMO Elektronik GmbH

Hanns-Schwindt-Str. 6  
81829 München  
Tel: (+49 89) 42 77 03  
Fax: (+49 89) 420 21 92  
info@lemo.de

### SWEDEN / FINLAND

#### LEMO Nordic AB

Mariehällsvägen 39A  
168 65 Bromma  
Tel: (+46 8) 635 60 60  
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### HONG KONG

#### LEMO Hong Kong Ltd.

Room 33, 7th Floor  
HITEC, 1 Trademart Drive  
Kowloon Bay - Hong Kong  
Tel: (+852) 21 74 04 68  
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Grundstrasse 22 B  
6343 Rotkreuz  
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#### REDEL Elektronika Kft

Vágóhíd u. 26  
1201 Budapest XX.  
Tel: (+36 1) 421 47 10  
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### UNITED KINGDOM

#### LEMO UK Ltd

Unit 15 & 16  
Hazelwood Trading Estate  
Worthing  
West Sussex, BN14 8NP  
Tel: (+44 1903) 23 45 43  
Fax: (+44 1903) 20 62 31  
lemo-uk@lemo.com

### ITALY

#### LEMO Italia srl

Viale Lunigiana 25  
20125 Milano  
Tel: (+39 02) 66 71 10 46  
Fax: (+39 02) 66 71 10 66  
sales.it@lemo.com

### USA

#### LEMO USA Inc

P.O. Box 2408  
Rohnert Park  
CA 94927-2408  
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(+1 800) 444 53 66  
Fax: (+1 707) 578 08 69  
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