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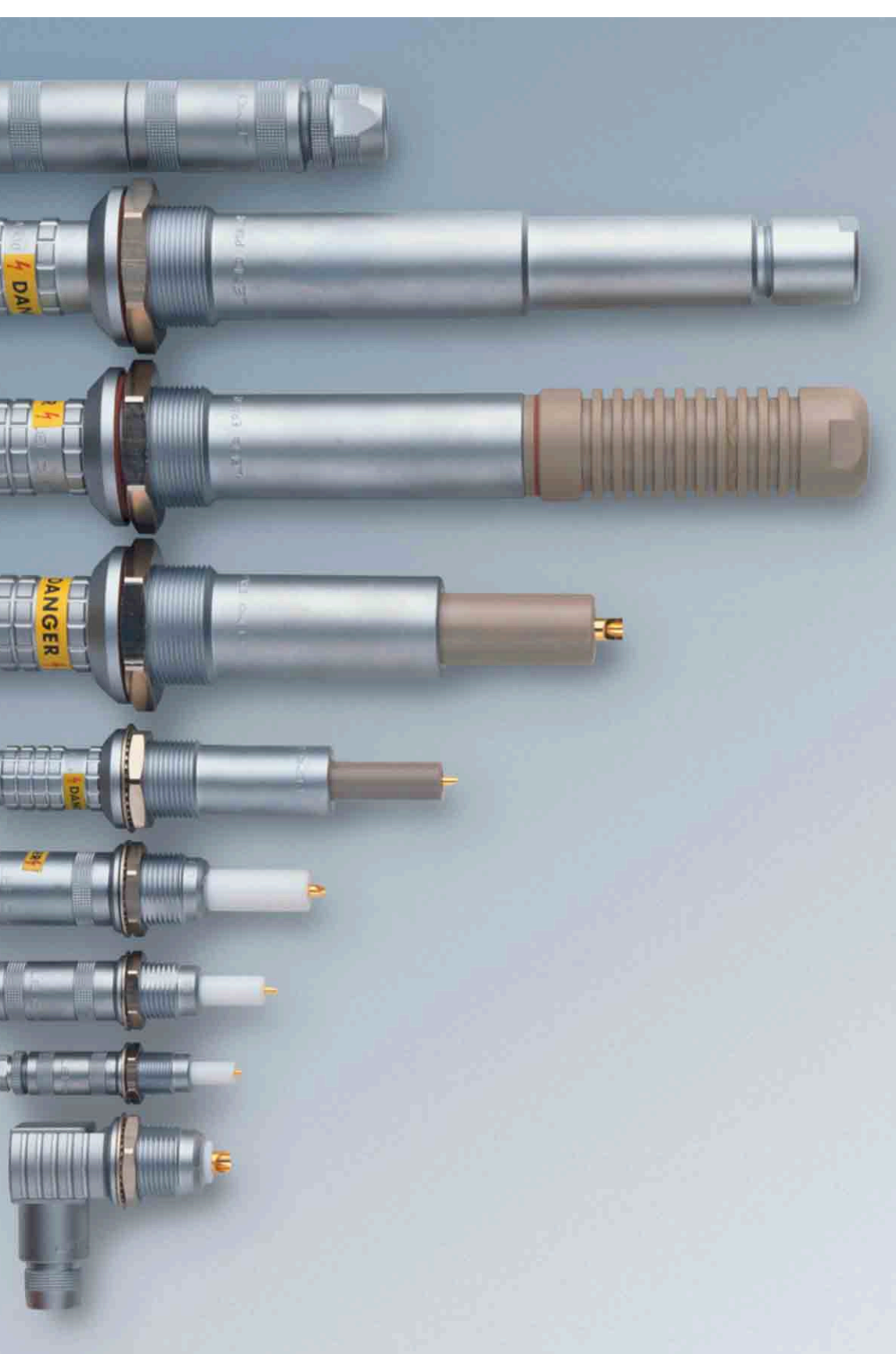
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**CONNECTORS  
(HIGH VOLTAGE,  
HIGH CURRENT,  
HYBRIDE)**

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



 **LEMO**

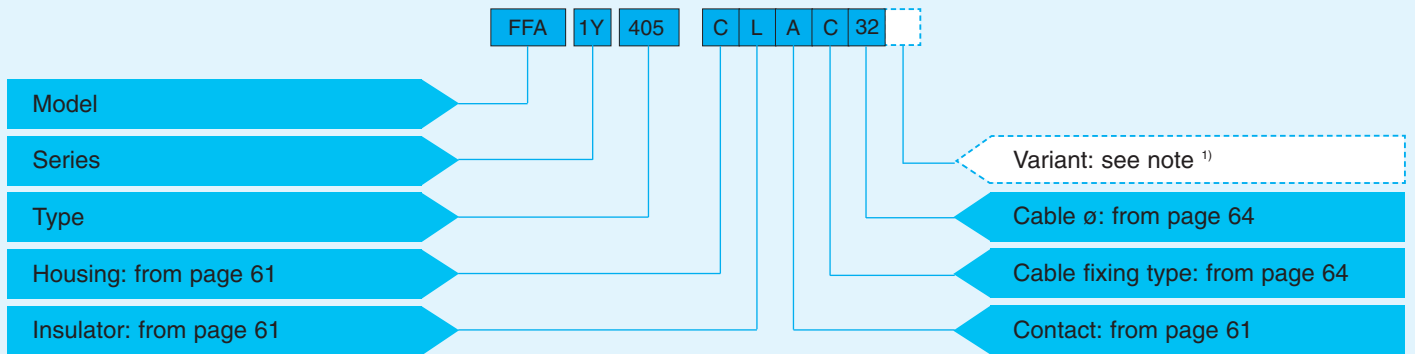


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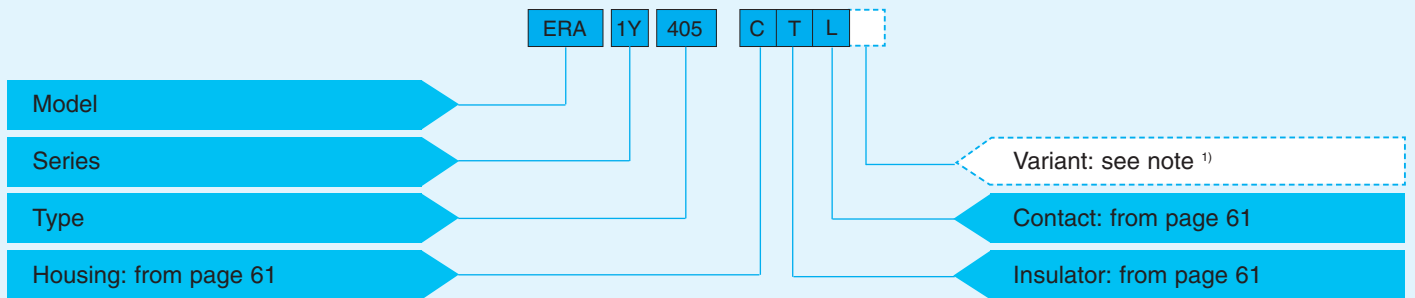
## BESTELLBEISPIELE | PART NUMBER EXAMPLES

### Straight plug



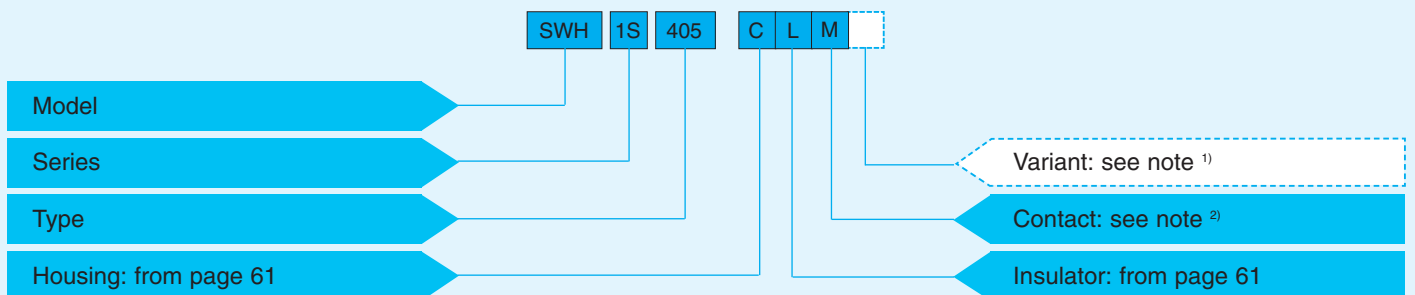
FFA.1Y.405.CLAC32 = straight plug with cable collet, 1Y series, high voltage 5kV, outer shell in chrome plated brass, PEEK insulator, 1 male solder contact, C type collet for a 3,2 mm diameter cable.

### 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:**  
 "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**

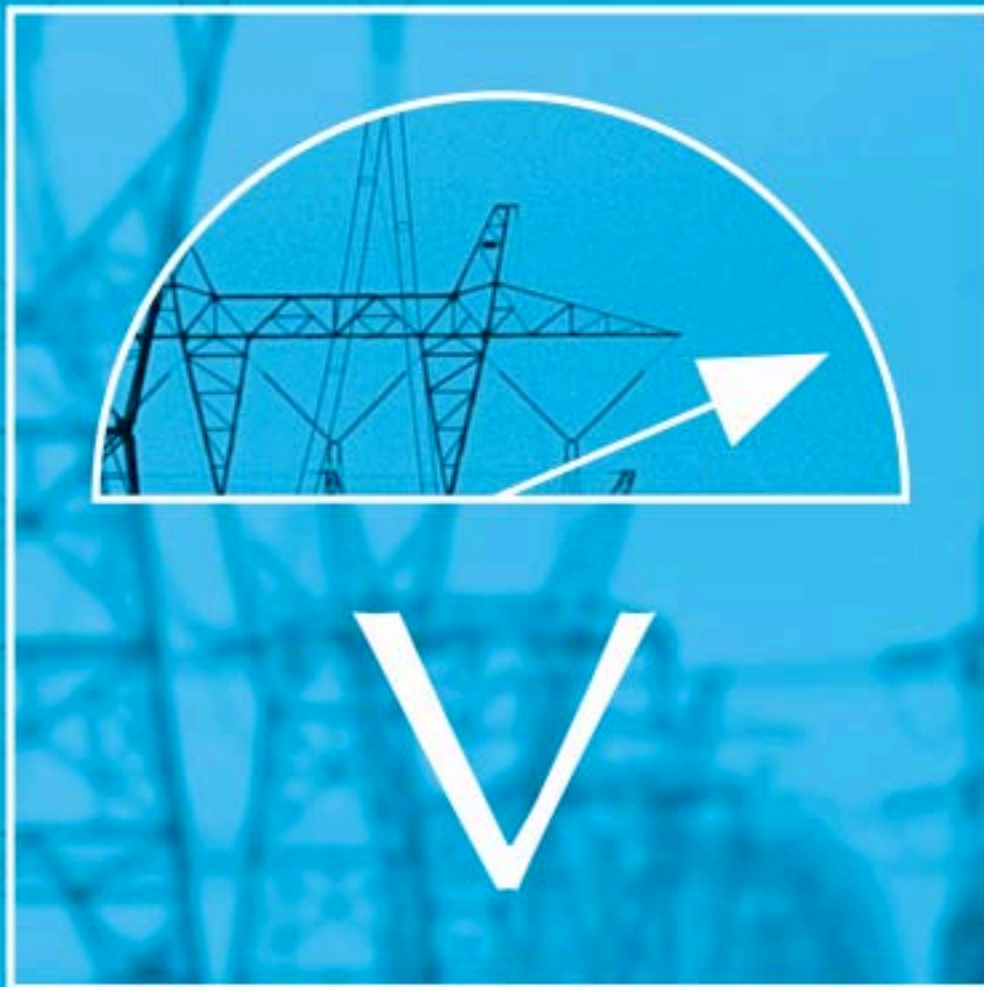
**Contactfiguration**

**Kabel**

**Cable**

**Konfektionierungsanleitung**

**Assembling Instructions**

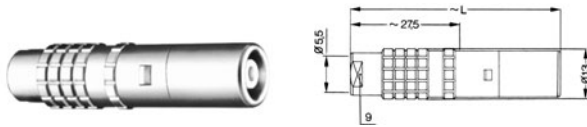


**HOCHSPANNUNG**  
**HIGH VOLTAGE**

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



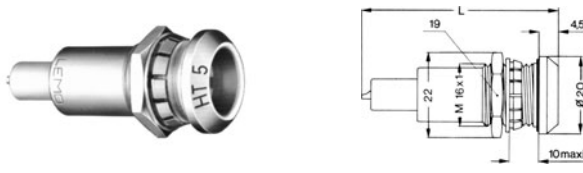
**FFA Straight plug with cable collet**



Reference		
Model	Series	Type
FFA	1Y	405 ✓
FFA	1Y	410 ✓

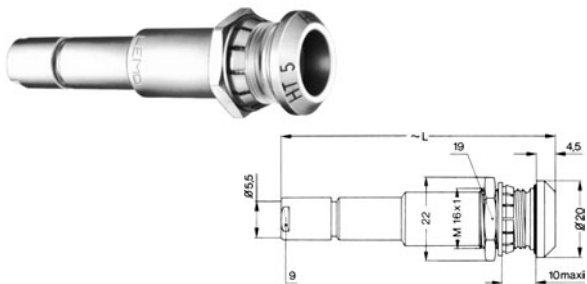
Dimensions L (mm)	
male contact	female contact
54	66
63	83

**ERA Fixed socket, nut fixing**



Reference		
Model	Series	Type
ERA	1Y	405 ✓
ERA	1Y	410 ✓

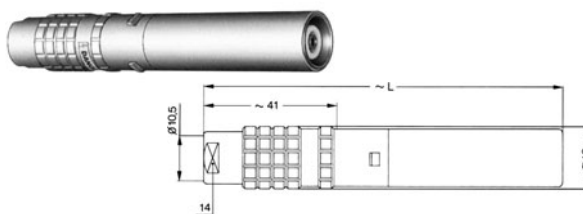
Dimensions L (mm)	
male contact	female contact
61	51
79	69



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

Reference		
Model	Series	Type
PSA	1Y	405 ✓
PSA	1Y	410 ✓

Dimensions L (mm)	
male contact	female contact
71	74
81	93



**FFA Straight plug with cable collet**

Reference		
Model	Series	Type
FFA	3Y	415 ✓
FFA	3Y	430 ✓

Dimensions L (mm)	
male contact	female contact
96	105
113	198



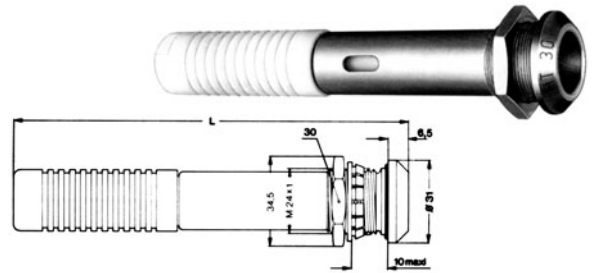
Part number example see page 3



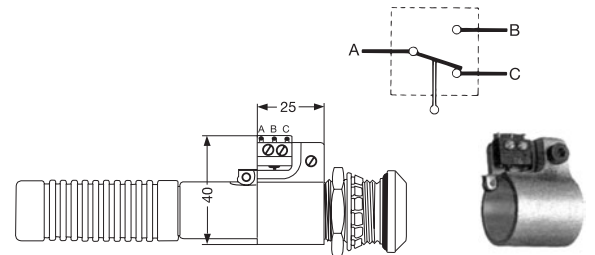
**HOCHSPANNUNG | HIGH VOLTAGE**  
**BAUFORM Y-SERIE | MODEL Y-SERIES**

**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

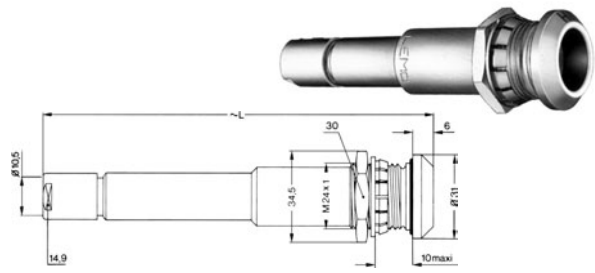


**ERA.3Y.260.CZZ Microswitch for fitting onto fixed socket**



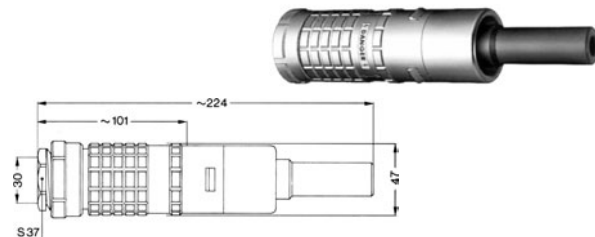
**PSA Fixed socket, nut fixing, with cable collet**

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



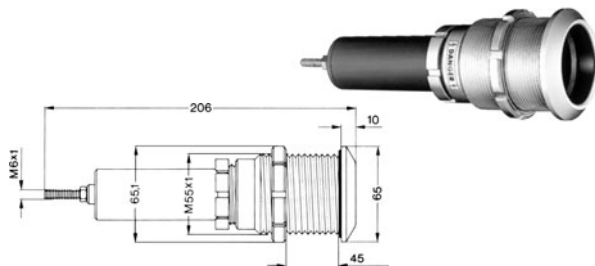
**FFB.6Y Straight plug with cable collet and safety nut**

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



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

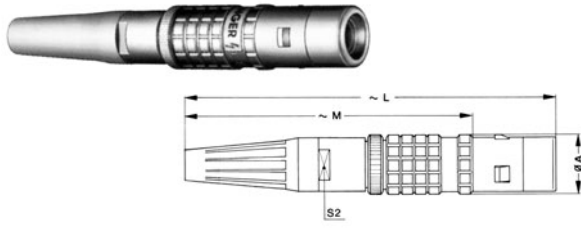
50 kV Version, technische Daten auf Anfrage.  
 50 kV version, technical informations on request.



**HOCHSPANNUNG | HIGH VOLTAGE**  
**BAUFORM 1Y.3Y-SERIE | MODEL 1Y.3Y-SERIES**

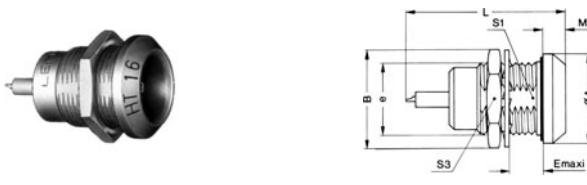


**FFR Straight plug for cable crimping, with bend relief and safety ring**



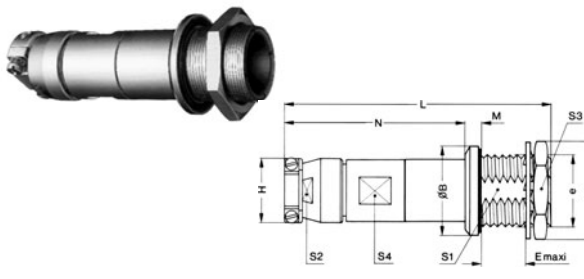
Reference		Dimensions (mm)			
Model	Series	A	L	M	S2
FFR	1Y ✓	13	83	65	9
FFR	3Y ✓	19	114	84	15

**ERA Fixed socket, nut fixing**



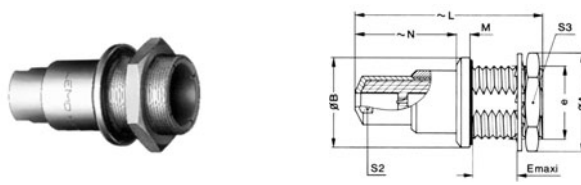
Reference		Dimensions (mm)							
Model	Series	A	B	e	E	L	M	S1	S3
ERA	1Y ✓	20	22.0	M16x1.0	8	34	4.5	14.5	19
ERA	3Y ✓	31	34.5	M24x1.0	12	50	6.5	22.5	30

**PEP Fixed socket, nut fixing, with cable collet nut (back panel mounting)**



Reference		Dimensions (mm)											
Model	Series	A	B	e	E	H	L	M	N	S1	S2	S3	S4
PEP	3Y ✓	35	31	M24x1.0	13	24	86	3.5	62	22.5	20	30	20

**VCP Fixed socket, nut fixing, with key, vacuumtight (back panel mounting)**



Reference		Dimensions (mm)								
Model	Series	A	B	e	E	L	M	N	S2	S3
VCP	1Y	20	22.0	M16x1.0	8	42	3.0	24	9	19
VCP	3Y ✓	31	34.5	M24x1.0	12	60	3.5	36	15	30

**Note:** HGP (flange version)  
 VPP (watertight version)





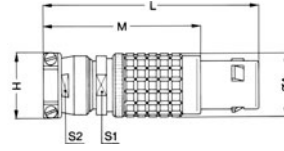
Part number example see page 3



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

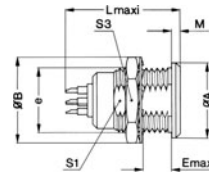
**FCJ Straight plug with cable clamp and safety ring, keyway (J)**

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



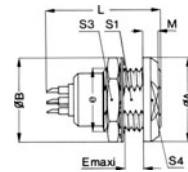
**EGJ Fixed socket, nut fixing, with keyway (J)**

Reference		Dimensions (mm)							
Model	Series	A	B	e	E	L	M	S1	S3
EGJ	4B ✓	28	32	M25x1.0	12.5	38	2.5	23.5	30
EGJ	5B ✓	40	40	M35x1.0	11.0	43	3.0	33.5	-



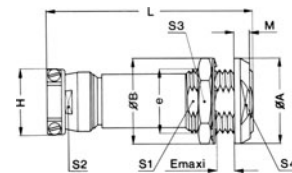
**ECJ Fixed socket, with two nuts and keyway (J) (back panel mounting)**

Reference		Dimensions (mm)								
Model	Series	A	B	e	E	L	M	S1	S3	S4
ECJ	4B ✓	30	32	M25x1.0	10.5	38	4.5	23.5	27	27
ECJ	5B	41	40	M35x1.0	9.0	43	5.0	33.5	37	37



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

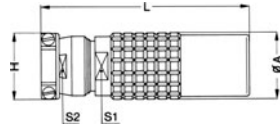
Reference		Dimensions (mm)										
Model	Series	A	B	e	E	H	L	M	S1	S2	S3	S4
PFJ	4B ✓	30	32	M25x1.0	10.5	24	75	4.5	23.5	20	30	27
PFJ	5B ✓	41	40	M35x1.0	9.0	34	103	5.0	33.5	30	-	37



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

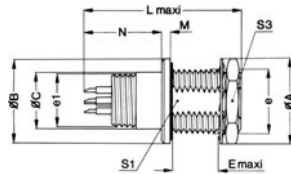


**PHJ Free socket with cable clamp and keyway (J)**



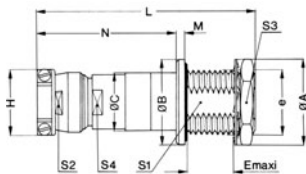
Reference		Dimensions (mm)				
Model	Series	A	H	L	S1	S2
PHJ	4B ✓	24.4	24	75	21	20
PHJ	5B ✓	34.2	34	103	31	31

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



Reference		Dimensions (mm)										
Model	Series	A	B	C	E	e	e1	L	M	N	S1	S3
VEJ	4B ✓	32	32	25	13	M25x1	M22x1	58	3.5	34.5	23.5	30
VEJ	5B	40	45	34	13	M35x1	M30x1	73	5.0	42.0	33.5	-

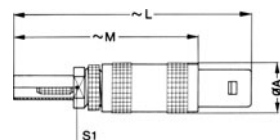
**VPJ Fixed socket, nut fixing, with cable clamp and keyway (J)  
vacuumtight (back panel mounting)**



Reference		Dimensions (mm)												
Model	Series	A	B	C	E	e	H	L	M	N	S1	S2	S3	S4
VPJ	4B ✓	32	32	25	13	M25x1	24	91	3.5	67.5	23.5	20	30	21
VPJ	5B	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		Dimensions (mm)			
Model	Series	A	L	M	S1
FFR	0S ✓	9	42	32	6.5
FFR	1S ✓	12	53	42	8.5



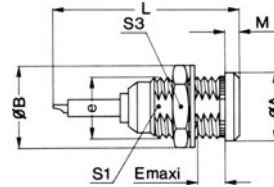
Part number example see page 3



**HOCHSPANNUNG | HIGH VOLTAGE**  
**BAUFORM 0S.1S-SERIE | MODEL 0S.1S-SERIES**

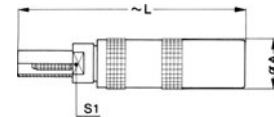
**ERA Fixed socket, nut fixing**

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



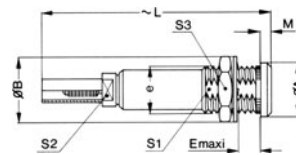
**PCS Free socket for cable crimping**

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



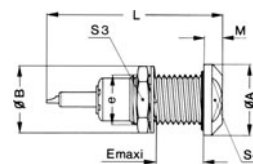
**PSS Fixed socket for cable crimping, nut fixing**

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- $\phi$	Dielectric- $\phi$ max.	Conductor- $\phi$ max.	Supply voltage <sup>2</sup> (kV =) DC	Supply voltage <sup>2</sup> (kV -) AC	Test voltage <sup>3</sup> (kV =) DC	Test voltage <sup>3</sup> (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- $\phi$	Supply voltage <sup>1</sup> (kVrms)	Supply voltage <sup>1</sup> (kV dc)	Supply voltage <sup>2</sup> (kVrms)	Supply voltage <sup>2</sup> (kV dc)	Test voltage <sup>3</sup> (kVrms)	Test voltage <sup>3</sup> (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	Number of contacts	Contact-ø mm	Supply voltage <sup>1</sup> (kV <sub>rms</sub> )	Supply voltage <sup>1</sup> (kV <sub>dc</sub> )	Supply voltage <sup>2</sup> (kV <sub>rms</sub> )	Supply voltage <sup>2</sup> (kV <sub>dc</sub> )	Test voltage <sup>3</sup> (kV <sub>rms</sub> )	Test voltage <sup>3</sup> (kV <sub>dc</sub> )	Rated current <sup>4</sup> A
Male contact	Female contact											
		460	4	10	0.9	3.5	5	5.6	8	8.5	12	3
		464	4	4	0.9	5.6	8	8.5	12	12.7	18	4
		467	4	7	0.9	5.6	8	8.5	12	12.7	18	4
		474	5	14	0.9	5.6	8	8.5	12	12.7	18	4
		481	5	21	0.9	5.6	8	8.5	12	12.7	18	4

**Test norms:**

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

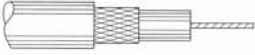

<sup>2</sup> IEC 130.1 §14.5 b)  $U_s = \frac{U_e}{1.5}$

<sup>3</sup> MIL

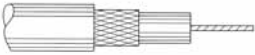






<sup>4</sup> IEC 512-3



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.	$\emptyset$	Mat.	$\emptyset$	Mat.	$\emptyset$ ( $\pm 0,2$ )
				$\Omega/km$	$M\Omega/km$	kV dc	kV dc	$^{\circ}C$	$^{\circ}C$			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>

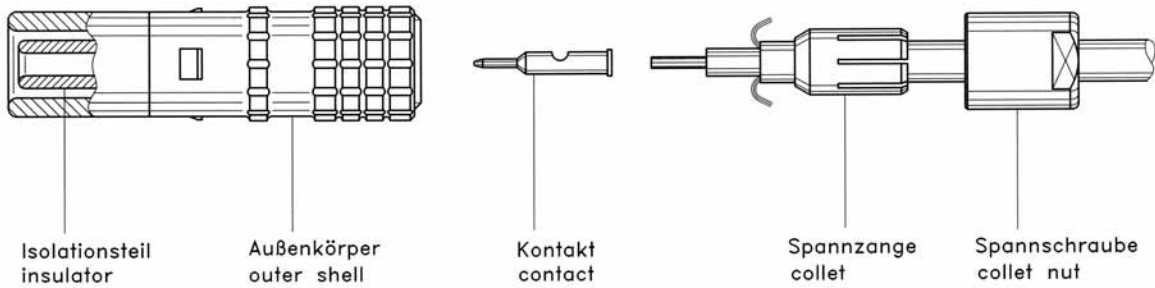
Capacitance	Conductor resistance	Insulation resistance	Operating Voltage $U_{max}$	Testing Voltage $U_{max}$	Temperature range		Inner conductor			Insulation		Screen		Outer sheath	
					from	to	Mat.	Struct.	$\emptyset$	Mat.	$\emptyset$	Mat.	$\emptyset$	Mat.	$\emptyset$ ( $\pm 0,2$ )
					pF/m	$\Omega/km$	$M\Omega/km$	kV dc	kV dc	$^{\circ}C$	$^{\circ}C$			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 (+0.2 -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 $\pm$ 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

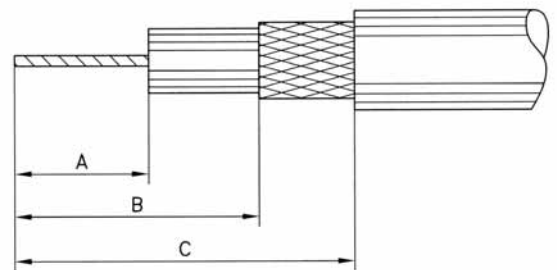
<sup>1</sup> Hochspannungskabel gemäß UL-Ausführung



## 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.

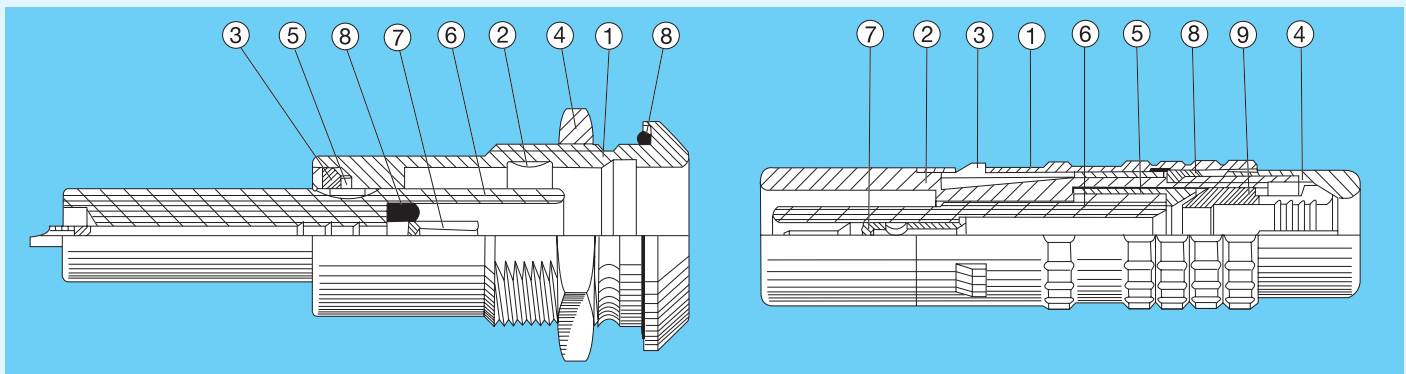
Die Abmessungen sind Richtwerte und können sich je nach Kabelqualität ändern.

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

### Straight plug

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

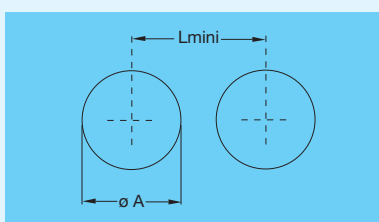
### Electrical Datas

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



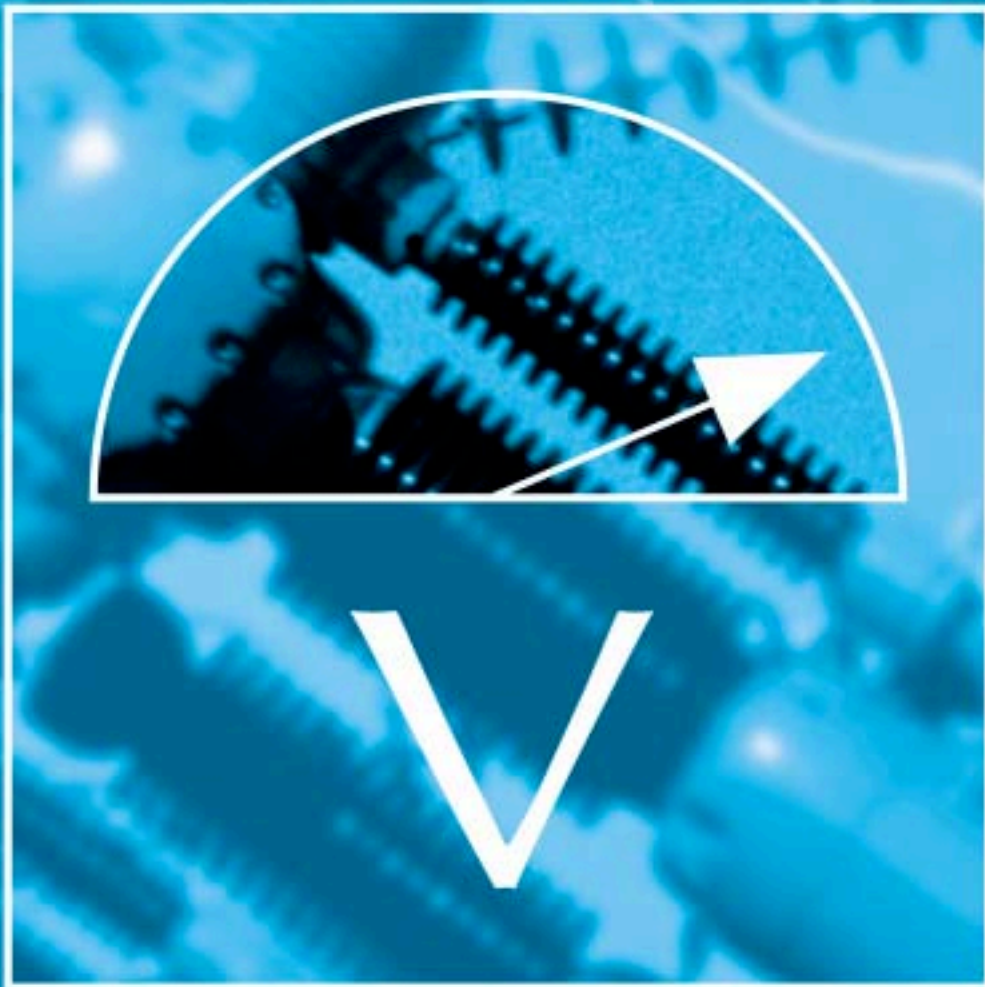
Series	Dimensions (mm)		Torque (Nm)
	øA	L	
1Y	16.1	22.0	14
3Y	24.2	35.5	25
6Y	55.3	67.5	55

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**

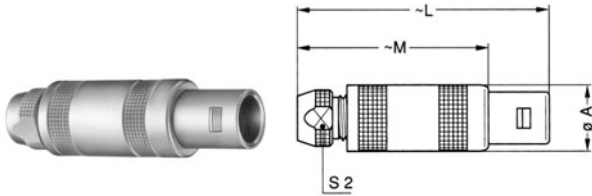


**HOCHSPANNUNGSFEST  
HIGH VOLTAGE FIRM**

**HOCHSPANNUNGSFEST | HIGH VOLTAGE FIRM**  
**BAUFORM S-SERIE | MODEL S-SERIES**

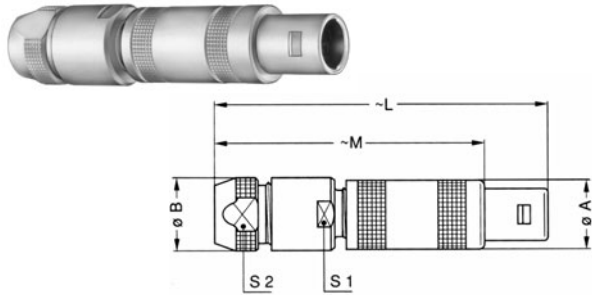


**FFA Straight plug, cable collet**



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

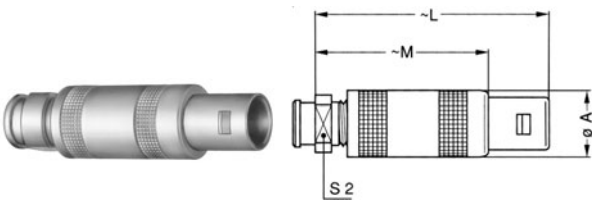
**FFA Straight plug with oversize cable collet**



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

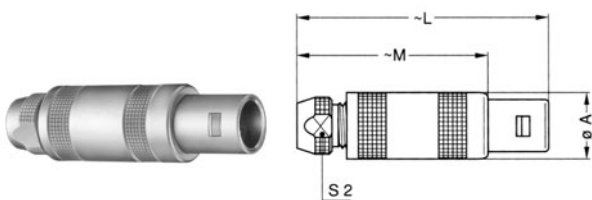
**FFA Straight plug, cable collet and nut for fitting a bend relief**



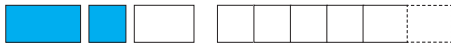
Reference		Dimensions (mm)			
Model	Series	A	L	M	S2
FFA	0S ✓	9.0	34.5	24.5	7
FFA	1S ✓	12.0	42.5	31.5	9
FFA	2S ✓	14.8	52.0	40.0	12
FFA	3S ✓	17.8	61.0	46.0	14
FFA	4S ✓	24.8	77.0	59.0	20

**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



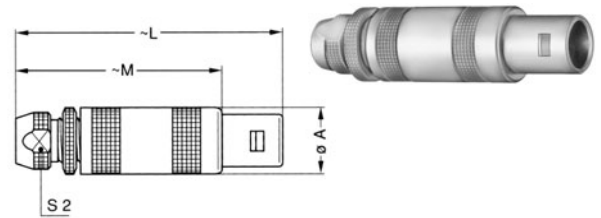
Part number example see page 3



## HOCHSPANNUNGSFEST | HIGH VOLTAGE FIRM BAUFORM S-SERIE | MODEL S-SERIES

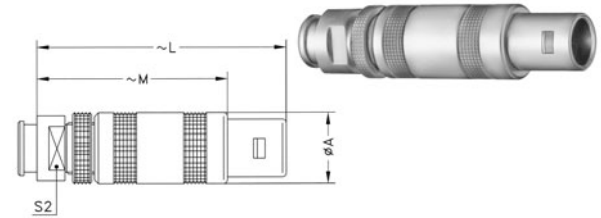
### FFB Straight plug, cable collet and safety locking ring

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

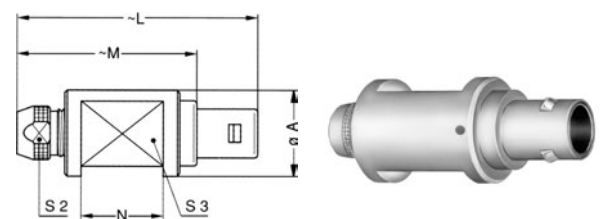
Reference		Dimensions (mm)			
Model	Series	A	L	M	S2
FFB	0S	9.0	36.8	26.8	7
FFB	1S ✓	12.0	45.0	34.0	9
FFB	2S	14.8	55.5	43.5	12
FFB	3S	17.8	65.0	50.0	14



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

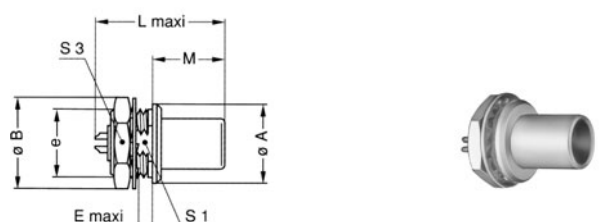
### FZP Straight plug for remote handling, cable collet and inner anti-rotating device

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	-

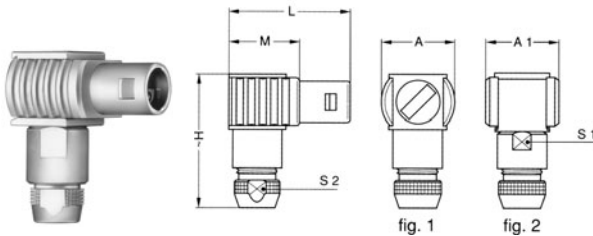


**Note:** <sup>1</sup> unipole model

**HOCHSPANNUNGSFEST | HIGH VOLTAGE FIRM**  
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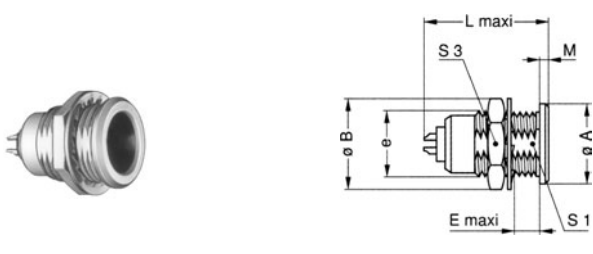
**FLA Elbow (90°) plug, cable collet**



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

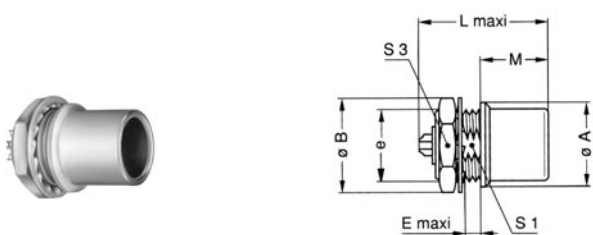
**ERA Fixed socket, nut fixing**



Reference		Dimensions (mm)								
Model	Series	A	B	e	E	L	L'	M	S1	S3
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

**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:** ' unipole model



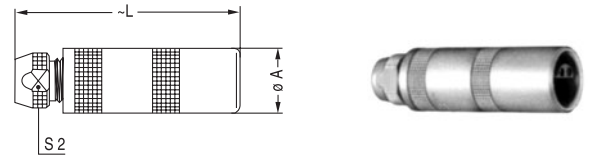
Part number example see page 3



## HOCHSPANNUNGFEST | HIGH VOLTAGE FIRM BAUFORM S-SERIE | MODEL S-SERIES

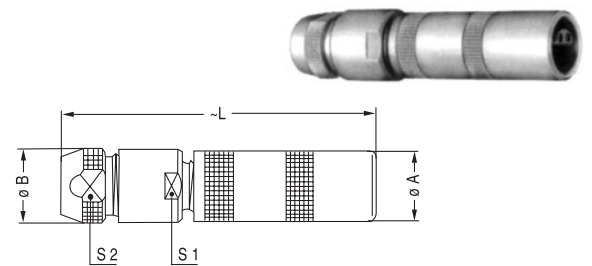
### PCA Free socket, cable collet

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

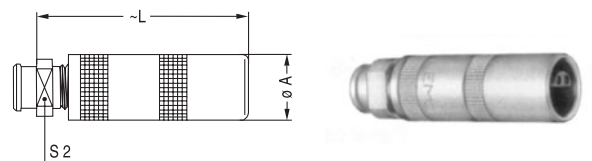
Reference		Dimensions (mm)				
Model	Series	A	B	L	S1	S2
PCA	0S ✓	8.9	10,0	44.5	9.0	8.5
PCA	1S ✓	11.9	13.0	55.0	12.0	11.0
PCA	2S ✓	14.8	18.0	65.0	14.0	14.0
PCA	3S ✓	17.8	21.0	83.0	19.0	19.0
PCA	4S ✓	24.8	31.8	105.0	28.5	29.0



**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

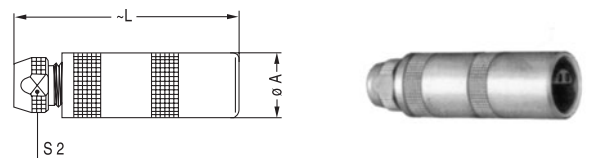
Reference		Dimensions (mm)		
Model	Series	A	L	S2
PCA	0S ✓	8.9	33.5	7.0
PCA	1S ✓	11.9	40.5	9.0
PCA	2S ✓	14.8	50.0	12.0
PCA	3S ✓	17.8	59.0	14.0
PCA	4S ✓	24.8	75.0	20.0



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

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

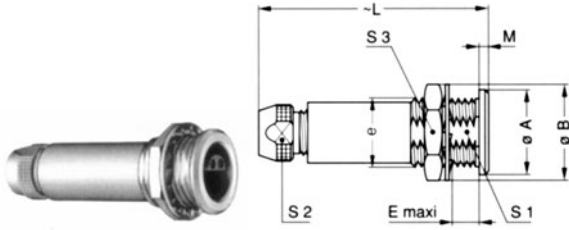
Reference		Dimensions (mm)		
Model	Series	A	L	S2
PCP	0S ✓	8.9	33.5	6.5
PCP	1S ✓	11.9	40.5	8.5
PCP	2S ✓	14.8	50.0	11.0
PCP	3S ✓	17.8	59.0	14.0
PCP	4S ✓	24.8	75.0	19.0



**HOCHSPANNUNGSFEST | HIGH VOLTAGE FIRM**  
**BAUFORM S-SERIE | MODEL S-SERIES**



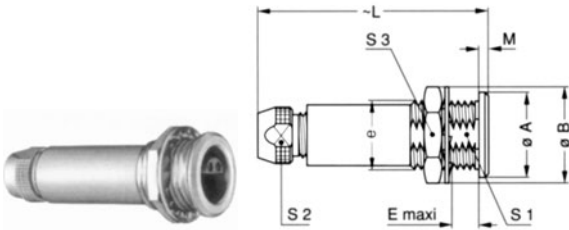
**PSA Fixed socket, nut fixing, cable collet**



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	-

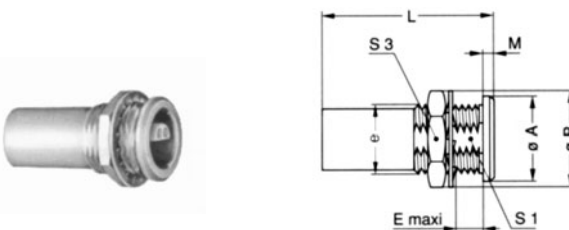
**Note:** the 5S series is delivered with a tapered washer and a round nut.

**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

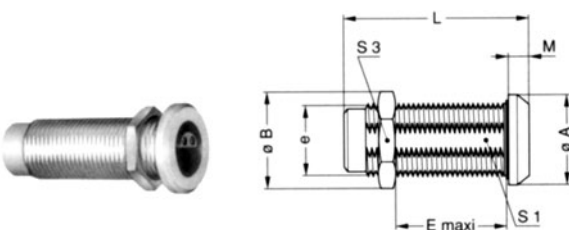
**RAD Fixed coupler, nut fixing**



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.



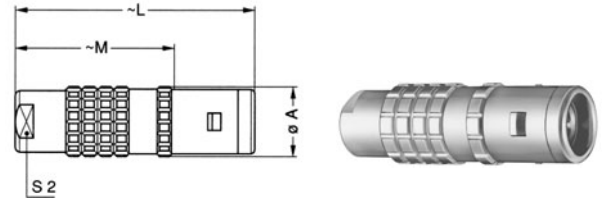
Part number example see page 3



## HOCHSPANNUNGSFEST | HIGH VOLTAGE FIRM BAUFORM E-SERIE | MODEL E-SERIES

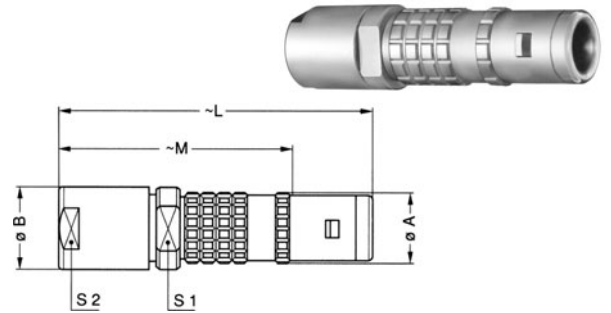
### FFA Straight plug, cable collet – watertight

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

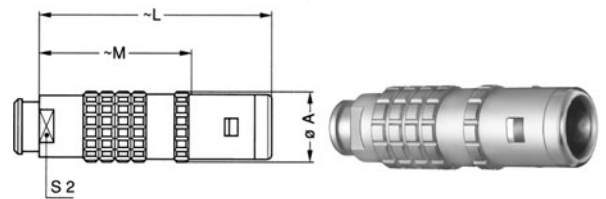
Reference		Dimensions (mm)					
Model	Series	A	B	L	M	S1	S2
FFA	1E ✓	13	14.5	55	41	12	12
FFA	2E ✓	16	17.0	65	49	15	15
FFA	3E ✓	19	22.0	80	60	19	19
FFA	4E ✓	25	36.0	105	84	30	32



**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

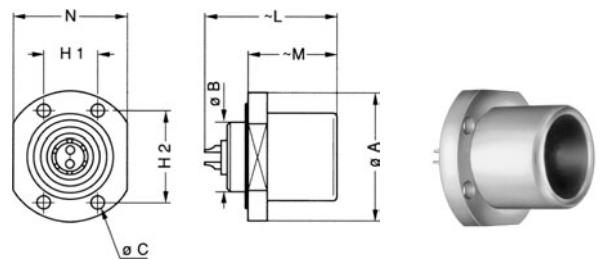
Reference		Dimensions (mm)			
Model	Series	A	L	M	S2
FFA	0E ✓	11	34	23.0	7
FFA	1E ✓	13	42	28.0	9
FFA	2E ✓	16	52	36.0	12
FFA	3E ✓	19	60	40.0	15
FFA	4E ✓	25	71	50.5	19



**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

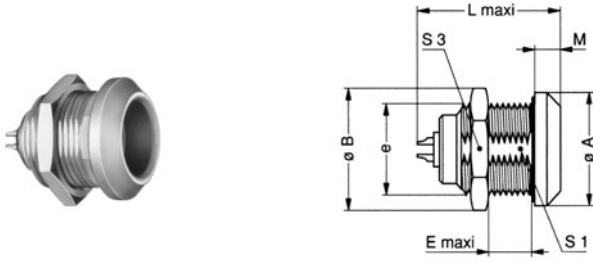


**Note:** this model is only available in a watertight version  
<sup>1</sup> unipole model

**HOCHSPANNUNGSFEST | HIGH VOLTAGE FIRM**  
**BAUFORM E-SERIE | MODEL E-SERIES**



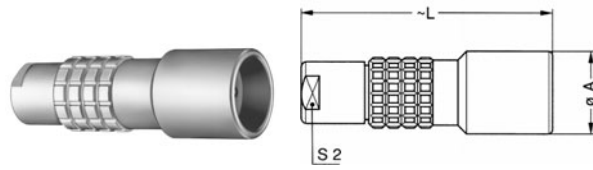
**ERA Fixed socket, nut fixing – watertight**



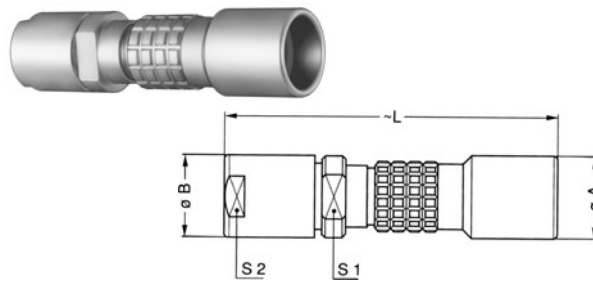
Reference		Dimensions (mm)								
Model	Series	A	B	e	E	L	L'	M	S1	S3
ERA	0E ✓	18	19.5	M14x1.0	7.0	19.5	20.5	4.0	12.5	17
ERA	1E ✓	20	21.5	M16x1.0	9.0	24.0	25.3	4.5	14.5	19
ERA	2E ✓	25	27.5	M20x1.0	9.0	28.5	30.0	5.0	18.5	24
ERA	3E ✓	31	34.5	M24x1.0	11.0	34.0	35.0	6.0	22.5	30
ERA	4E ✓	37	41.5	M30x1.0	9.0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

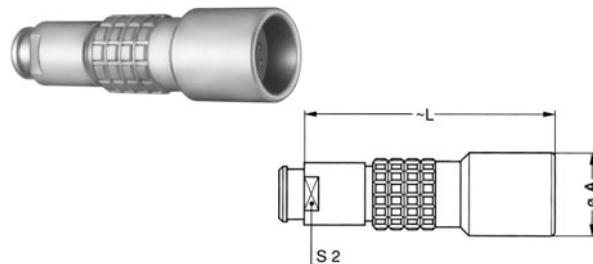


**PCA Free socket with oversize cable collet – watertight**

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

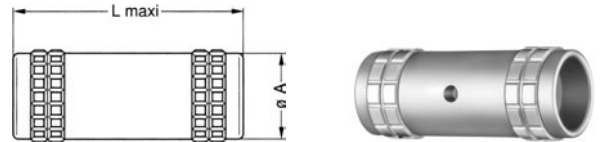


## HOCHSPANNUNGSFEST | HIGH VOLTAGE FIRM BAUFORM E-SERIE | MODEL E-SERIES

### 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

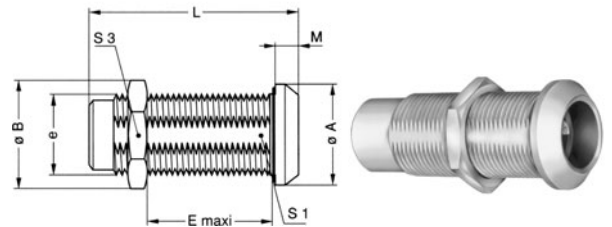
**Note:** see page 26 for the available plug and contact configurations and in order to ensure correct contact alignment



### 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	-

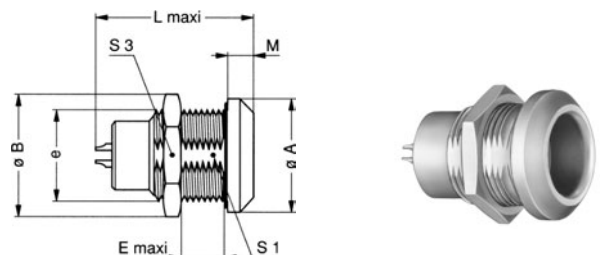
**Note:** The 5E series are delivered with a round nut. See page 26 for the available plug and contact configurations and in order to ensure correct contact alignment.



### 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  
¹ unipole model



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


Soldersided seen		Order-No.	Size	Impedance	Contact- $\phi$	Max. conductor- $\phi$	Valid current	Supply voltage $U_s$ (kV dc)		Test voltage $U_e$ (kV dc)		Cable-order-no.	Type of insulation	Delivery time
Male contact	Female contact							K-K	K-M	K-K	K-M			
		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> 8	4.5 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> 8	4.5 8	on request	high voltage	◐
		434	4	-	2	1.8	14	2.1	3	3.1 <sup>1</sup> 8	4.5 8	on request	high voltage	◐
		442	4	-	1.3	1	14	3.5	5.0	5.2 <sup>1</sup> 14	7.5 14	on request	high voltage	◐