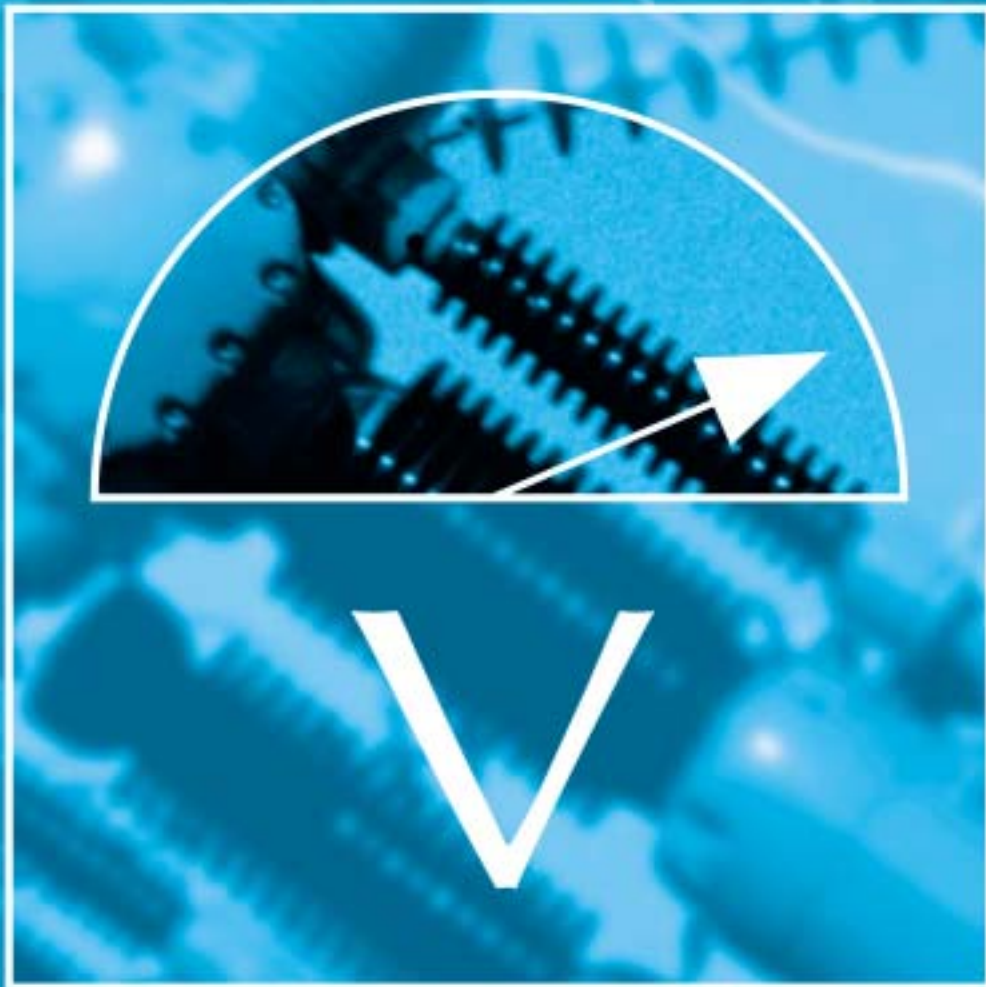


**Steckverbindungen
Connectors
Kontaktfiguration
Contactfiguration
Konfektionierungsanleitung
Assembling Instructions**

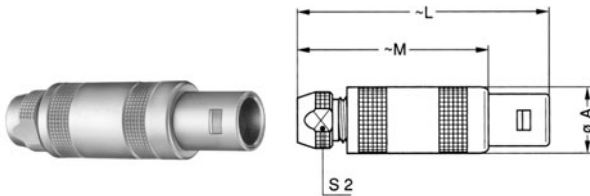


**HOCHSPANNUNGSFEST
HIGH VOLTAGE FIRM**

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

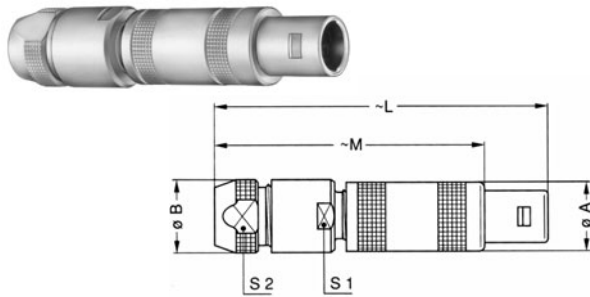


FFA Straight plug, cable collet



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

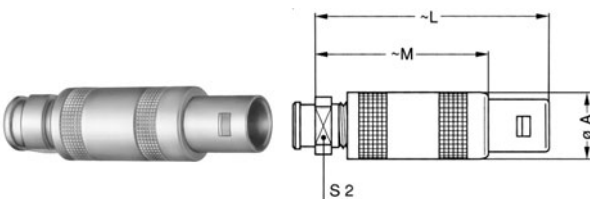
FFA Straight plug with oversize cable collet



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

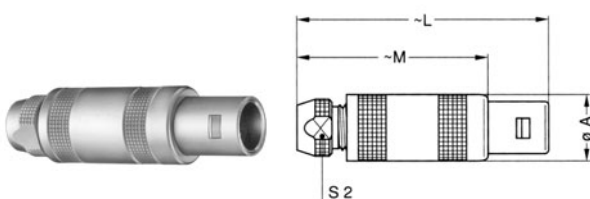
FFA Straight plug, cable collet and nut for fitting a bend relief



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



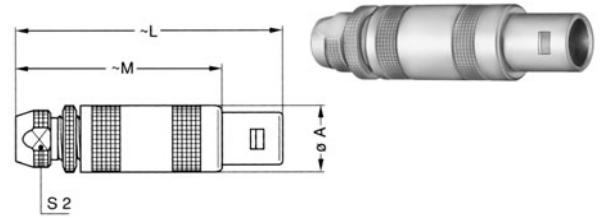
Part number example see page 3



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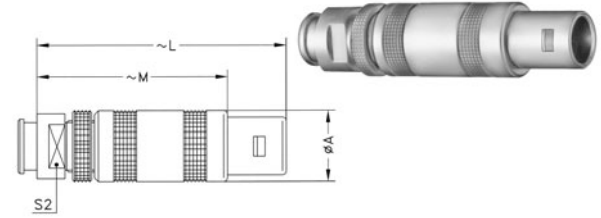
FFB Straight plug, cable collet and safety locking ring

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

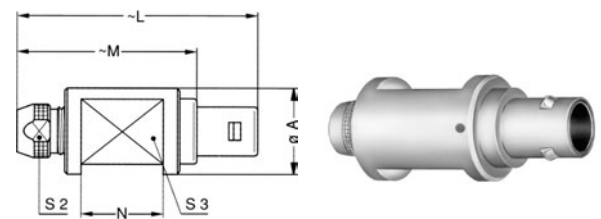
Reference		Dimensions (mm)			
Model	Series	A	L	M	S2
FFB	0S	9.0	36.8	26.8	7
FFB	1S ✓	12.0	45.0	34.0	9
FFB	2S	14.8	55.5	43.5	12
FFB	3S	17.8	65.0	50.0	14



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

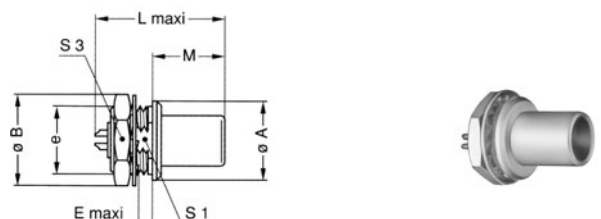
FZP Straight plug for remote handling, cable collet and inner anti-rotating device

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	-

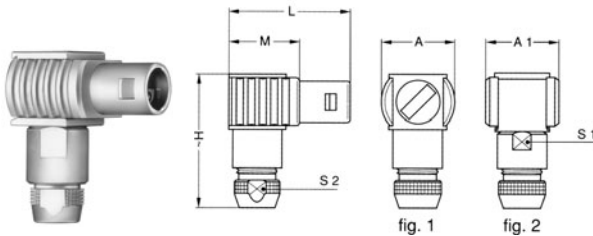


Note: ¹ unipole model

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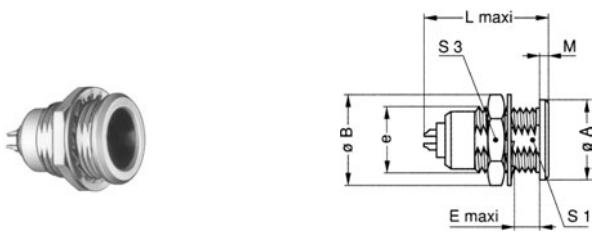
FLA Elbow (90°) plug, cable collet



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

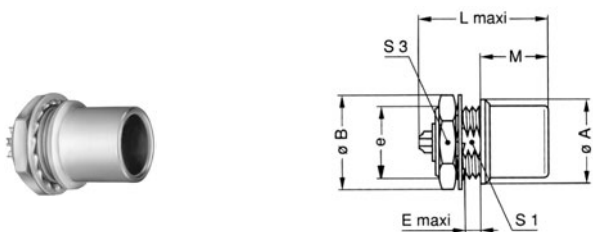
ERA Fixed socket, nut fixing



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



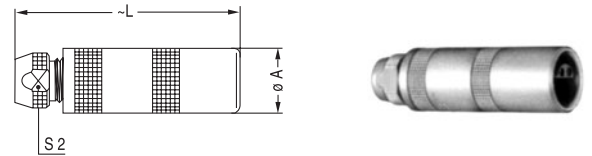
Part number example see page 3



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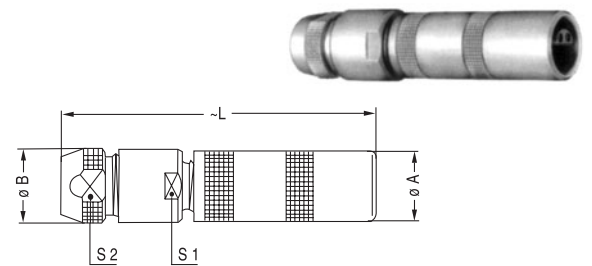
PCA Free socket, cable collet

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

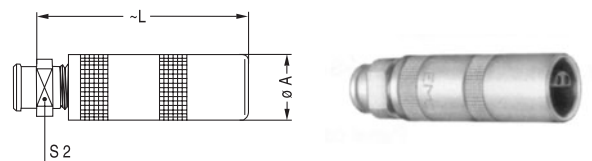
Reference		Dimensions (mm)				
Model	Series	A	B	L	S1	S2
PCA	0S ✓	8.9	10,0	44.5	9.0	8.5
PCA	1S ✓	11.9	13.0	55.0	12.0	11.0
PCA	2S ✓	14.8	18.0	65.0	14.0	14.0
PCA	3S ✓	17.8	21.0	83.0	19.0	19.0
PCA	4S ✓	24.8	31.8	105.0	28.5	29.0



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

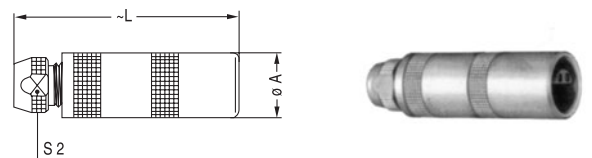
Reference		Dimensions (mm)		
Model	Series	A	L	S2
PCA	0S ✓	8.9	33.5	7.0
PCA	1S ✓	11.9	40.5	9.0
PCA	2S ✓	14.8	50.0	12.0
PCA	3S ✓	17.8	59.0	14.0
PCA	4S ✓	24.8	75.0	20.0



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

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

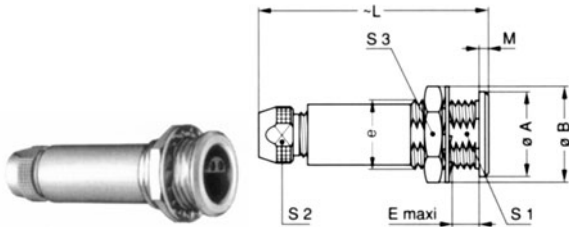
Reference		Dimensions (mm)		
Model	Series	A	L	S2
PCP	0S ✓	8.9	33.5	6.5
PCP	1S ✓	11.9	40.5	8.5
PCP	2S ✓	14.8	50.0	11.0
PCP	3S ✓	17.8	59.0	14.0
PCP	4S ✓	24.8	75.0	19.0



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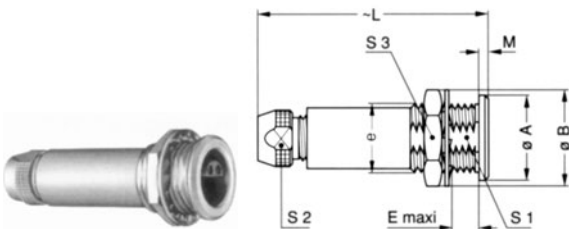
PSA Fixed socket, nut fixing, cable collet



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	-

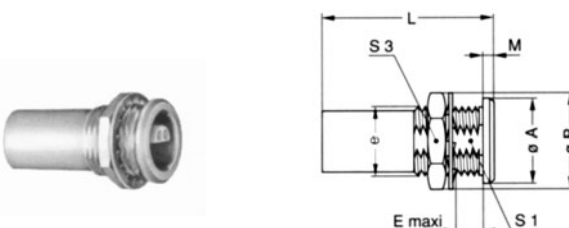
Note: the 5S series is delivered with a tapered washer and a round nut.

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

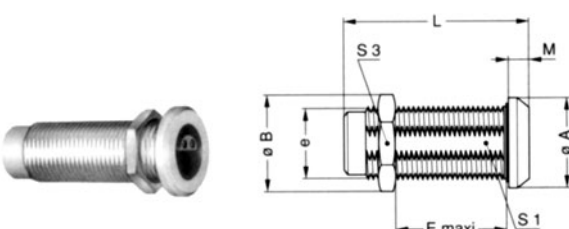
RAD Fixed coupler, nut fixing



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.



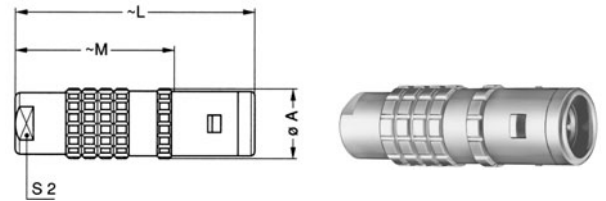
Part number example see page 3



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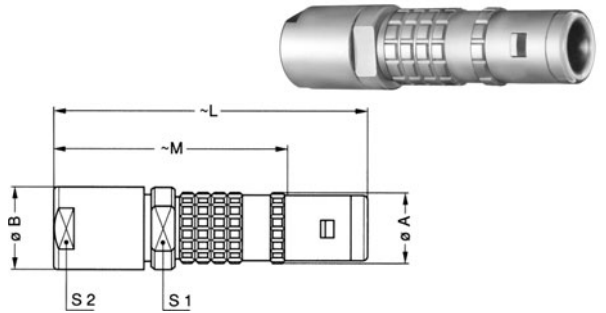
FFA Straight plug, cable collet – watertight

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

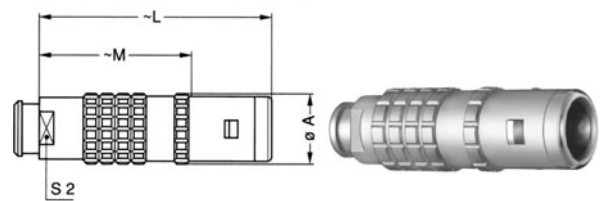
Reference		Dimensions (mm)					
Model	Series	A	B	L	M	S1	S2
FFA	1E ✓	13	14.5	55	41	12	12
FFA	2E ✓	16	17.0	65	49	15	15
FFA	3E ✓	19	22.0	80	60	19	19
FFA	4E ✓	25	36.0	105	84	30	32



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

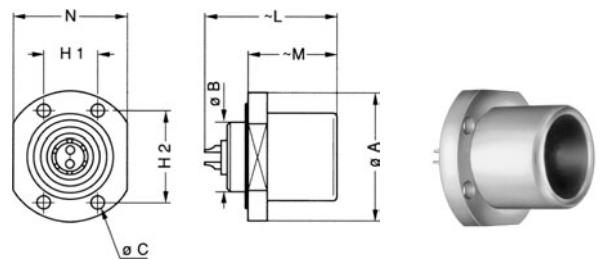
Reference		Dimensions (mm)			
Model	Series	A	L	M	S2
FFA	0E ✓	11	34	23.0	7
FFA	1E ✓	13	42	28.0	9
FFA	2E ✓	16	52	36.0	12
FFA	3E ✓	19	60	40.0	15
FFA	4E ✓	25	71	50.5	19



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



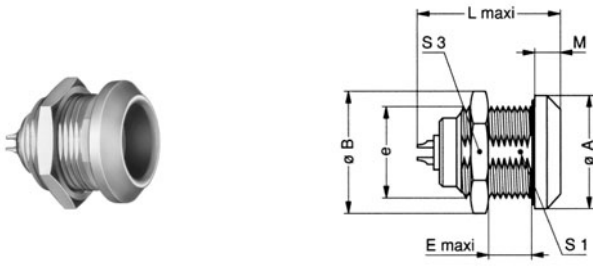
Note: this model is only available in a watertight version
¹ unipole model

✓ Bei Lemo vorhanden | available at Lemo

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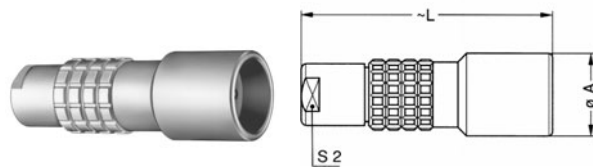
ERA Fixed socket, nut fixing – watertight



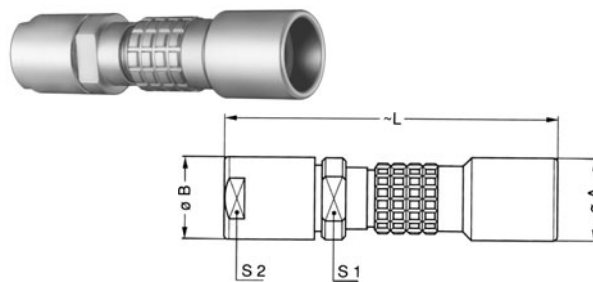
Reference		Dimensions (mm)								
Model	Series	A	B	e	E	L	L'	M	S1	S3
ERA	0E ✓	18	19.5	M14x1.0	7.0	19.5	20.5	4.0	12.5	17
ERA	1E ✓	20	21.5	M16x1.0	9.0	24.0	25.3	4.5	14.5	19
ERA	2E ✓	25	27.5	M20x1.0	9.0	28.5	30.0	5.0	18.5	24
ERA	3E ✓	31	34.5	M24x1.0	11.0	34.0	35.0	6.0	22.5	30
ERA	4E ✓	37	41.5	M30x1.0	9.0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

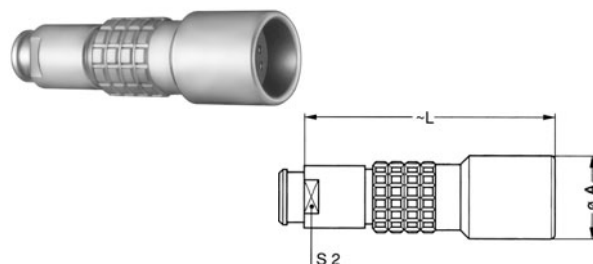


PCA Free socket with oversize cable collet – watertight

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

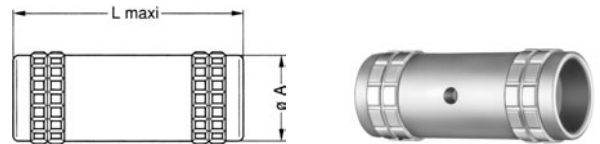


HOCHSPANNUNGSFEST | HIGH VOLTAGE FIRM BAUFORM E-SERIE | MODEL E-SERIES

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

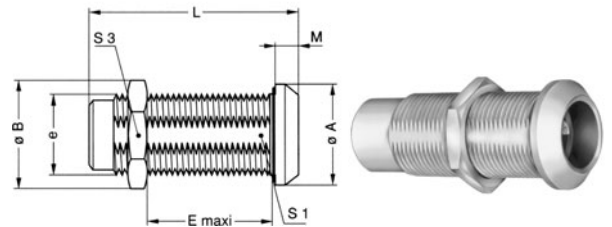
Note: see page 26 for the available plug and contact configurations and in order to ensure correct contact alignment



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	-

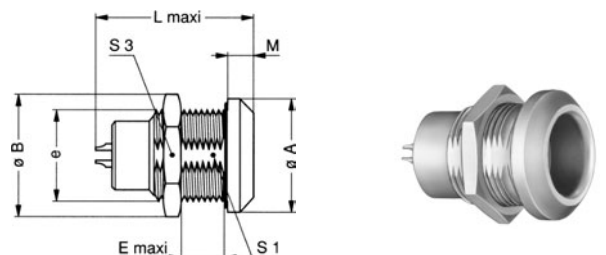
Note: The 5E series are delivered with a round nut. See page 26 for the available plug and contact configurations and in order to ensure correct contact alignment.



HGP Fixed socket, nut fixing, watertight and vacuumtight

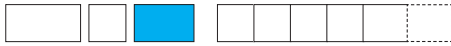
Reference		Dimensions (mm)								
Model	Series	A	B	e	E	L	L'	M	S1	S3
HGP	0E	18	19.5	M14x1.0	7.0	23.5	22.0	4.0	12.5	17
HGP	1E	20	21.5	M16x1.0	9.0	28.0	28.0	4.5	14.5	19
HGP	2E	25	27.5	M20x1.0	10.5	32.5	28.0	5.0	18.5	24
HGP	3E	31	34.5	M24x1.0	15.5	39.5	38.5	6.0	22.5	30
HGP	4E ✓	37	41.5	M30x1.0	17.5	43.0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

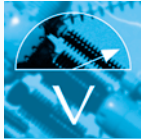


HOCHSPANNUNGSFEST | HIGH VOLTAGE FIRM
KONTAKTFIGURATION SERIE S+E | CONTACTFIGURATION SERIES S+E


Soldersided seen		Order-No.	Size	Impedance	Contact- ϕ	Max. conductor- ϕ	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 ¹ 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 ¹ 8	4.5 8	on request	high voltage	◐
		434	4	-	2	1.8	14	2.1	3	3.1 ¹ 8	4.5 8	on request	high voltage	◐
		442	4	-	1.3	1	14	3.5	5.0	5.2 ¹ 14	7.5 14	on request	high voltage	◐



Part number example see page 3

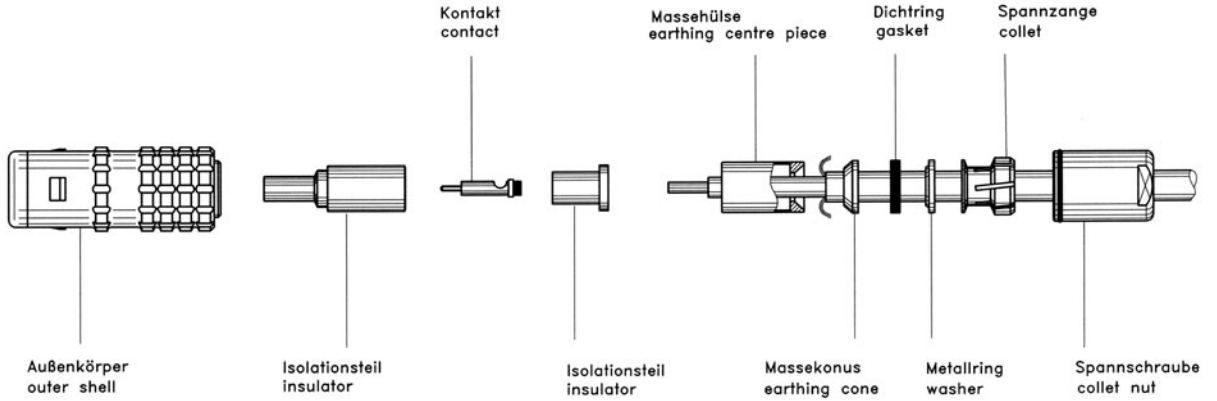


HOCHSPANNUNGSFEST | HIGH VOLTAGE FIRM

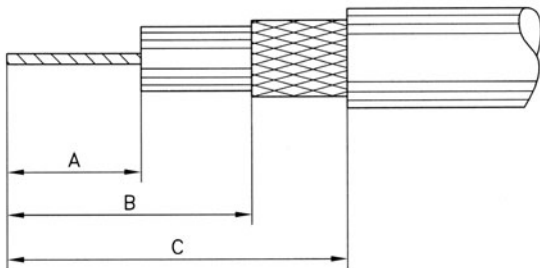
KONTAKTFIGURATION SERIE S+E | CONTACTFIGURATION SERIES S+E

Soldersided seen		Order-No.	Size	Impedance	Contact- ϕ	Max. conductor- ϕ	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			
		442	5	-	2	1.8	20	3.5	5.0	5.2 ¹ 14	7.5 14	on request	high voltage	○
		438	5	-	2	1.8	18	2.1	3.0	3.1 ¹ 14	10.5 14	on request	high voltage	○
		443	5	-	2	1.8	20	3.5	5.0	5.2 ¹ 14	7.5 14	on request	high voltage	○
		444	5	-	2	1.8	18	3.5	5.0	5.2 ¹ 14	7.5 14	on request	high voltage	○

Note: ¹ Test nach CEI 130.1 § 14.5b $U_s = \frac{U_e}{1.5}$



Reference			Contact 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.