

Acceptable cable diameters

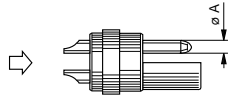
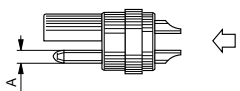












































Series	Cable diameter range (mm)											
	C type collet		D type collet		K type collet		L type collet		M type collet		With heatshrink boot	
	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.
00 ¹⁾	1.1	3.0	–	–	3.0	4.1	1.3	3.0	–	–	–	–
0S	1.3	4.3	–	–	3.8	6.7	1.3	4.3	–	–	–	–
1S	1.3	6.7	–	–	6.1	8.5	1.3	6.5	–	–	–	–
2S	1.3	8.5	–	–	8.1	10.5	1.7	8.5	–	–	–	–
3S	2.5	10.5	–	–	11.1	13.0	3.1	10.5	–	–	–	–
4S	4.1	13.0	–	–	13.1	22.0	4.1	13.0	–	–	–	–
5S	6.1	22.0	–	–	22.1	30.0	8.1	21.0	–	–	–	–
6S	11.1	30.0	–	–	–	–	11.1	30.0	–	–	–	–

Note:

¹⁾ for unipole only, crimping (type E) is also available for cables from 1.8 to 3.0 mm.

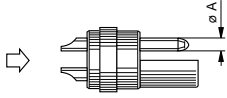
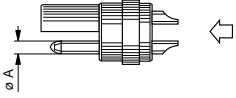
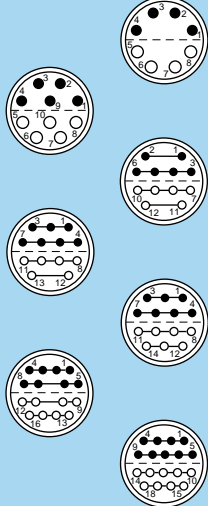
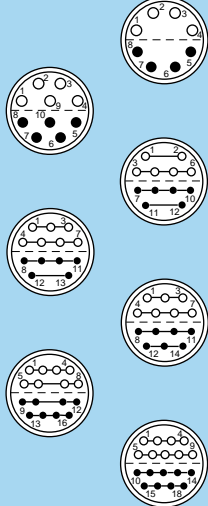
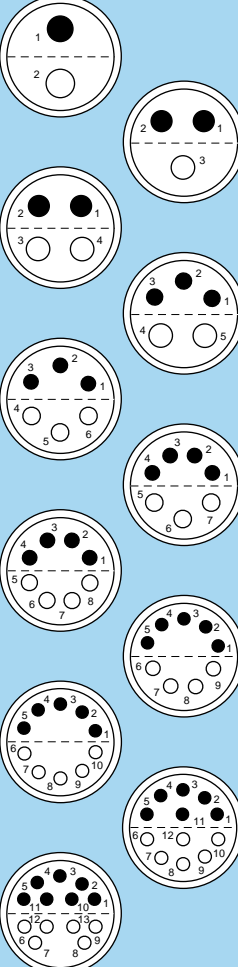
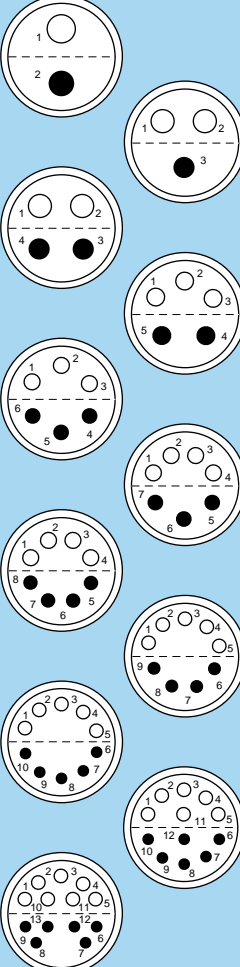
Type

Multipole

		 Male solder contacts		 Female solder contacts		Reference	Series		Number of contacts	ø A (mm)	Contact type				Test voltage (kV rms) ^{1) 2)}	Test voltage (kV dc) ^{1) 2)}	Rated current (A) ¹⁾
		Standard	Watertight	Standard	Watertight		Solder	Crimp			Print (straight)	Print (elbow)					
0S			302	0S	0E	2	0.9	●	●	●	●	1.5	2.1	10 ³⁾			
			303	0S	0E	3	0.7	●	○	●	●	1.0	1.5	7 ³⁾			
			304	0S	0E	4	0.7	●	○	●	●	1.0	1.5	7 ³⁾			
1S			302	1S	1E	2	1.3	●	●	●	●	1.2	1.8	15 ³⁾			
			303	1S	1E	3	0.9	●	○	●	●	1.2	1.8	10 ³⁾			
			304	1S	1E	4	0.9	●	●	●	●	1.2	1.8	10 ³⁾			
			305	1S	1E	2 3	0.9 0.7	●	○	●	●	1.5 1.5	2.1 2.1	10 ³⁾ 7 ³⁾			
			306	1S	1E	6	0.7	●	○	●	●	1.5	2.1	7 ³⁾			
2S			302	2S	2E	2	1.6	●	○	○	○	1.8	2.4	20 ⁴⁾			
			303	2S	2E	3	1.3	●	○	●	○	1.5	2.1	15 ⁴⁾			
			304	2S	2E	4	1.3	●	○	●	●	1.8	2.4	15 ⁴⁾			
			305	2S	2E	5	1.3	●	○	●	●	1.5	2.1	13 ⁴⁾			
			306	2S	2E	6	1.3	●	● ⁵⁾	●	●	1.5	2.1	12			
			307	2S	2E	3 4	1.3 0.9	●	○	●	●	0.8 0.8	1.2 1.2	12 ³⁾ 9 ³⁾			
			308	2S	2E	8	0.9	●	○	●	●	0.8	1.2	9 ³⁾			
			310	2S	2E	10	0.9	●	○	●	●	0.8	1.2	7 ³⁾			
3S			302	3S	3E	2	2.0	●	○	○	–	3.0	4.2	23			
			303	3S	3E	3	2.0	●	○	○	–	1.5	2.1	20			
			304	3S	3E	4	2.0	●	○	○	–	1.5	2.1	18			
			305	3S	3E	2 3	2.0 1.3	●	○	○	–	1.5 1.5	2.1 2.1	18 14			
			306	3S	3E	6	1.3	●	○	●	–	2.1	3.0	14			
			307	3S	3E	7	1.3	●	○	●	–	1.0	1.5	12			

Note: 1) see calculation method, caution and suggested standard. 2) lowest measured value; contact to contact or contact to shell. 3) rated current = 6A for socket with elbow (90°) contacts for printed circuit. 4) rated current = 12A for socket with elbow (90°) contacts for printed circuit. 5) only for FFL model. ● First choice alternative ○ Special order alternative

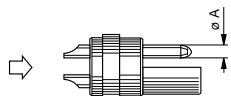
Multipole

		 Male solder contacts		 Female solder contacts		Reference	Series		Number of contacts	ø A (mm)	Contact type				Test voltage (kV rms) ^{1) 2)}	Test voltage (kV dc) ^{1) 2)}	Rated current (A) ¹⁾
3S	4S	Standard	Watertight	Solder	Crimp		Print (straight)	Print (elbow)									
3S			308	3S	3E	8	1.3	●	○	●	○	1.0	1.5	10			
			310	3S	3E	10	1.3	●	○	●	●	1.0	1.5	9			
			312	3S	3E	12	0.9	●	○	●	●	1.5	2.1	8			
			313	3S	3E	13	0.9	●	○	●	○	1.5	2.1	8			
			314	3S	3E	14	0.9	●	○	●	●	1.5	2.1	7			
			316	3S	3E	16	0.9	●	○	●	●	1.0	1.5	7			
			318	3S	3E	18	0.9	●	○	●	○	1.0	1.5	6			
4S			302	4S	4E	2	4.0	●	-	○	-	2.1	3.0	35			
			303	4S	4E	3	3.0	●	-	○	-	2.1	3.0	25			
			304	4S	4E	4	3.0	●	-	○	-	2.1	3.0	22			
			305	4S	4E	2 3	3.0 2.0	●	-	○	-	2.1 2.1	3.0 3.0	22 16			
			306	4S	4E	6	2.0	●	●	○	-	2.1	3.0	16			
			307	4S	4E	3 4	2.0 1.3	●	-	○	-	2.1 2.1	3.0 3.0	16 13			
			308	4S	4E	8	1.3	●	-	○	-	2.7	3.9	13			
			309	4S	4E	9	1.3	●	-	○	-	2.1	3.0	12			
			310	4S	4E	10	1.3	●	-	○	-	2.1	3.0	11			
			312	4S	4E	12	1.3	●	-	○	-	2.1	3.0	9			
			313	4S	-	13	1.3	●	-	○	-	2.1	3.0	9			

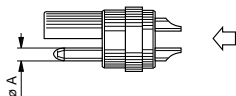
Note: 1) see calculation method, caution and suggested standard.
 2) lowest measured value; contact to contact or contact to shell.

● First choice alternative ○ Special order alternative

Multipole



Male solder contacts



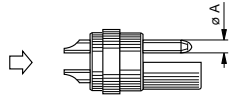
Female solder contacts

	Reference	Series		Number of contacts	$\varnothing A$ (mm)	Contact type			Test voltage (kV rms) ¹⁾²⁾	Test voltage (kV dc) ¹⁾²⁾	Rated current (A) ¹⁾
		Standard	Watertight			Solder	Print (straight)	Print (elbow)			
4S	314	4S	4E	14	1.3	●	○	-	2.1	3.0	9
	316	4S	4E	16	0.9	●	○	-	2.1	3.0	7
	318	4S	4E	18	0.9	●	○	-	2.1	3.0	7
	320	4S	4E	20	0.9	●	○	-	2.1	3.0	7
	322	4S	4E	22	0.9	●	○	-	2.1	3.0	7
	324	4S	4E	24	0.9	●	○	-	2.1	3.0	7
5S	302	5S	5E	2	6.0	●	-	-	3.7	5.2	50
	303	5S	5E	1	6.0	●	-	-	3.7	5.2	50
	304	5S	5E	4	4.0	●	-	-	3.7	5.2	35
	305	5S	5E	2	4.0	●	-	-	3.0	4.2	35
	306	5S	5E	6	3.0	●	-	-	3.0	4.2	25
	308	5S	5E	8	3.0	●	-	-	2.1	3.0	22
	310	5S	5E	10	2.0	●	-	-	2.1	3.0	18

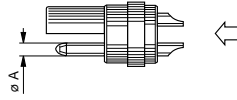
Note: 1) see calculation method, caution and suggested standard.

2) lowest measured value; contact to contact or contact to shell.

Multipole



Male solder contacts



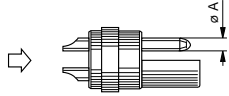
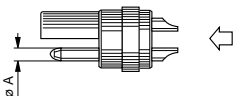
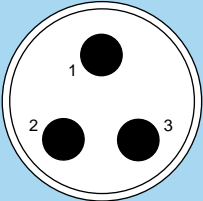
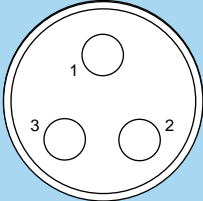
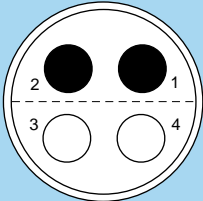
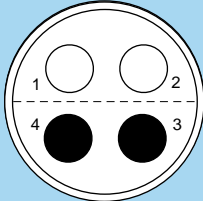
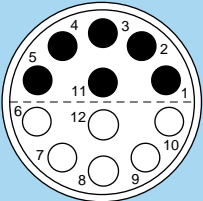
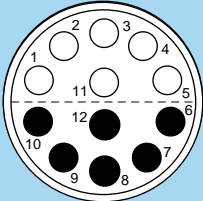
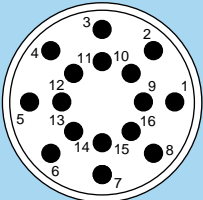
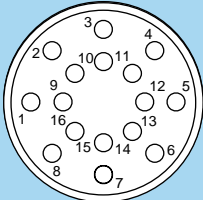
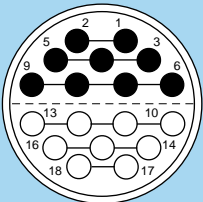
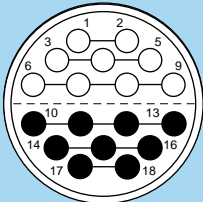
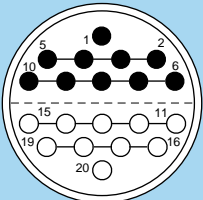
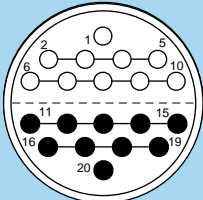
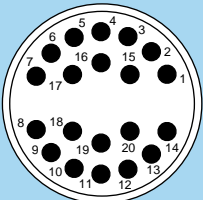
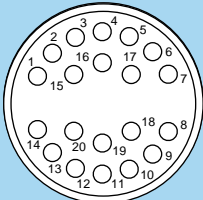
Female solder contacts

5S

Reference	Series		Number of contacts	$\varnothing A$ (mm)	Contact type			Test voltage (kV rms) ¹⁾²⁾	Test voltage (kV dc) ¹⁾²⁾	Rated current (A) ¹⁾
	Standard	Watertight			Solder	Print (straight)	Print (elbow)			
312	5S	5E	12	2.0	●	-	-	2.1	3.0	18
314	5S	5E	2 12	3.0 2.0	●	-	-	1.8 1.8	2.4 2.4	20 15
316	5S	5E	16	2.0	●	-	-	1.8	2.4	15
318	5S	5E	2 16	3.0 1.6	●	-	-	1.8 1.8	2.4 2.4	18 11
320	5S	5E	20	1.6	●	-	-	1.8	2.4	11
322	5S	5E	2 20	3.0 1.6	●	-	-	1.8 1.8	2.4 2.4	16 9
324	5S	5E	24	1.6	●	-	-	2.7	3.9	9
330	5S	5E	30	1.3	●	-	-	1.8	2.4	8
336	5S	5E	36	1.3	●	-	-	1.8	2.4	7
340	5S	5E	40	1.3	●	-	-	1.2	1.8	7
344	5S	5E	44	1.3	●	-	-	1.2	1.8	6
348	5S	5E	48	1.3	●	-	-	1.2	1.8	6

Note: 1) see calculation method, caution and suggested standard.
 2) lowest measured value; contact to contact or contact to shell.

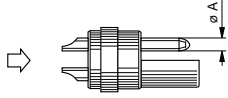
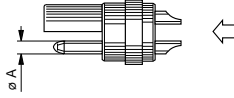
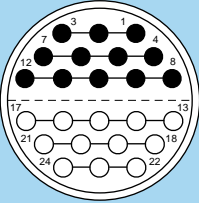
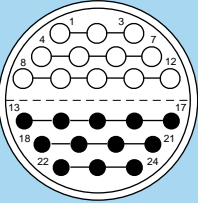
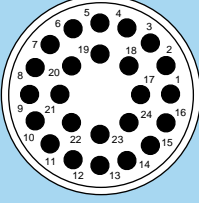
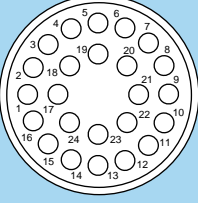
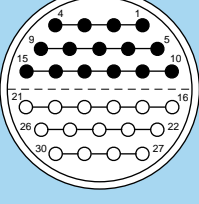
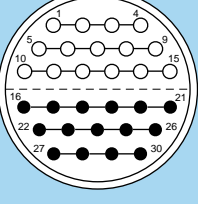
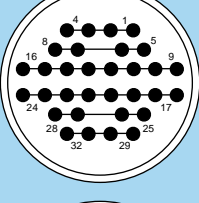
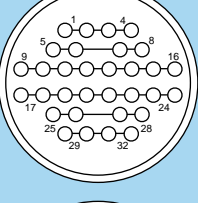
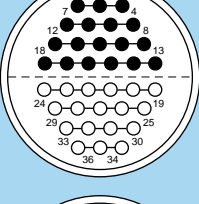
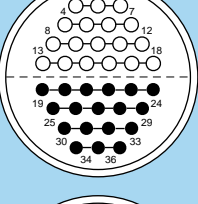
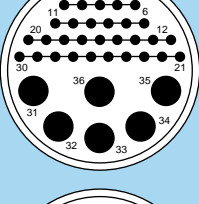
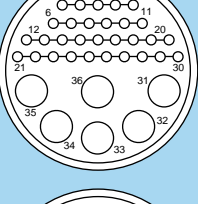
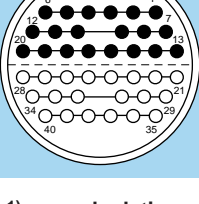
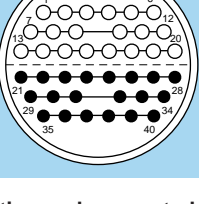
Multipole

	 Male solder contacts	 Female solder contacts	Reference	Series		Number of contacts	ø A (mm)	Solder contacts	Test voltage (kV rms) ⁽¹⁾²⁾	Test voltage (kV dc) ⁽¹⁾²⁾	Rated current (A) ⁽¹⁾
				Standard	Watertight						
6S			303	-	6E	3	6.0	●	3.0	4.2	50
			304	6S	6E	4	8.0	●	3.0	4.2	60
			312	6S -	- 6E	12 12	4.0 5.0	●	2.1	3.0	22
			316	-	6E	16	3.0	●	1.5	2.1	14
			318	6S	-	18	4.0	●	1.2	1.8	16
			320	6S	-	20	3.0	●	1.5	2.1	14
			320	-	6E	20	3.0	●	1.5	2.1	14

Note: ¹⁾ see calculation method, caution and suggested standard.
²⁾ lowest measured value; contact to contact or contact to shell.

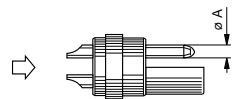
Multipole

6S

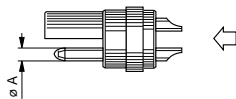
	 Male solder contacts		 Female solder contacts		Reference	Series		Number of contacts	ø A (mm)	Solder contacts	Test voltage (kV rms) ¹⁾²⁾	Test voltage (kV dc) ¹⁾²⁾	Rated current (A) ¹⁾
	Standard	Watertight											
		324	6S	-	24	3.0	●	1.2	1.8	12			
		324	-	6E	24	3.0	●	1.2	1.8	12			
		330	6S	6E	30	2.0	●	2.1	3.0	10			
		332	-	6E	32	2.0	●	1.5	2.1	10			
		336	6S	-	36	2.0	●	1.5	2.1	8			
		336	-	6E	30 6	1.3 5.0	●	1.5 1.5	2.1 2.1	4 22			
		340	-	6E	40	2.0	●	1.5	2.1	8			

Note: 1) see calculation method, caution and suggested standard.
 2) lowest measured value; contact to contact or contact to shell.

Multipole



Male solder contacts



Female solder contacts

Reference

Series

Standard

Watertight

Number of contacts

ø A (mm)

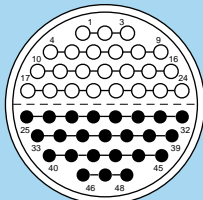
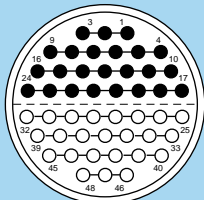
Solder contacts

Test voltage (kV rms)^{1) 2)}

Test voltage (kV dc)^{1) 2)}

Rated current (A)¹⁾

6S



348

6S

6E

48

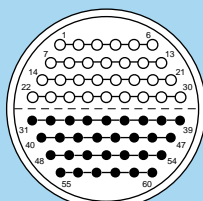
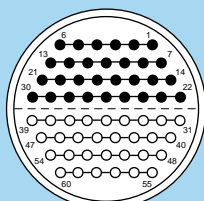
2.0

●

1.5

2.1

7



360

6S

6E

60

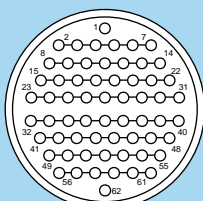
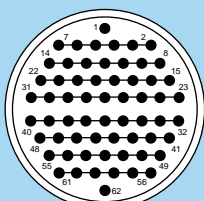
1.6

●

1.5

2.1

5



362

–

6E

62

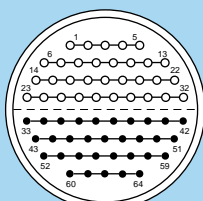
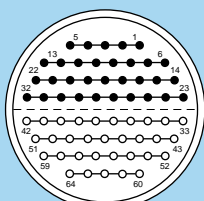
1.6

●

1.5

2.1

5



364

6S

6E

64

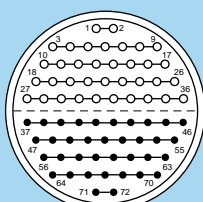
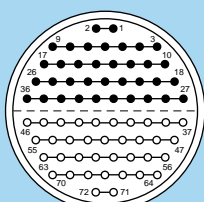
1.3

●

1.2

1.8

4



372

6S

6E

72

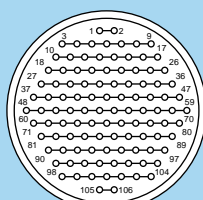
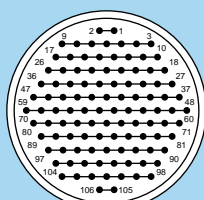
1.3

●

1.2

1.8

4



106

–

6E

106

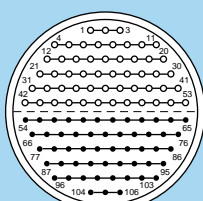
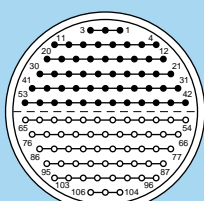
0.9

●

0.8

1.2

2



106

6S

–

106

0.9

●

0.8

1.2

2

Note: 1) see calculation method, caution and suggested standard.

2) lowest measured value; contact to contact or contact to shell.

Housings

Ref.	Material	Surface treatment		Note
		Outer shell and collet nut	Latch sleeve and earthing crown	
C	Brass ¹⁾	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 ²⁾	without treatment	stainless steel	○
L	Aluminium alloy ³⁾	anodized	nickel-plated brass	○
B	POM black ⁴⁾	without treatment	nickel-plated brass	●
H	PPS/brass ⁵⁾	without treat./nickel	nickel	●
G	PEEK ⁴⁾	without treatment	nickel-plated brass	●
P	PSU ⁶⁾	without treatment	nickel-plated brass	●
R	PPSU ⁷⁾	without treatment	nickel-plated brass	●

Note:
 1) in the E series the latch sleeve is chrome-plated.
 2) the other metallic components are in stainless steel.
 3) the «variant» position of the reference is used to specify the anodized colour.
 4) only available for FFP, ERN and PCP models of the S series.
 5) for S series EPL and EXP elbow (90°) sockets for printed circuit.
 6) available only for the FFL model of the S series. See colours in «variant» position.
 7) available only for the FFL model of the S series.

● First choice alternative ○ Special order alternative

Insulators

Ref.	Material or form	Note
L	PEEK	●
T	PTFE ¹⁾	●
T	FEP ²⁾	○

Ref.	Material or form	Note
V	PI ²⁾	○
N	PA6.6 ³⁾	●

Note:
 1) only for unipole types.
 2) only for multipole types.
 3) material for 5S/5E and 6S/6E series multipole inserts.

● First choice alternative ○ Special order alternative

Contacts

Contacts for plugs, free or fixed sockets

Ref.	Contact type
A	Male solder
C	Male crimp ^{1) 4)}
L	Female solder
M	Female crimp ^{2) 4)}
N	Female print (straight)
V	Female print (elbow)

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 L) for sockets. In case of an odd number of contacts, the letter of reference corresponds to the one with the larger number of contacts. For example, a 309 type connector with contact (reference A) will include 5 male and 4 female contacts.

Contacts for couplers and plug with socket

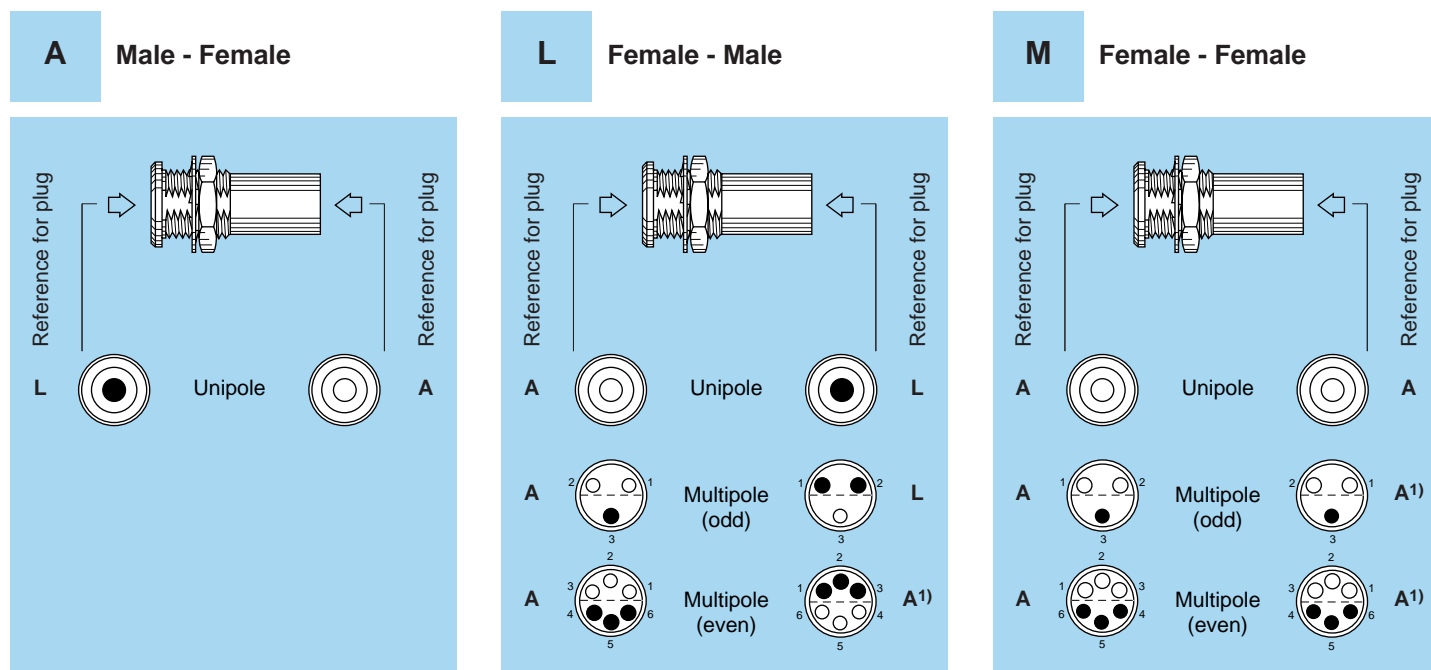
Ref.	Contact type	unipole	multipole
A	Male - Female	○	–
L	Female - Male	○	●
M	Female - Female	●	○
F	Female - Female - Male ³⁾	●	●

For RAD and SWH fixed couplers, the first contact type mentioned is always the one at the flange end. Contact configuration and sockets to be used for a connection are explained on the following page.

Note:
 1) for the FFS model of the 00 series and FFA or FFL models of the S series.
 2) for the PSS model of the 00 series and PCA or PSA models of the S series.
 3) for the FTA model of the S series.
 4) for conductor range that can fit with crimp contacts.

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 (see next page).

Contact configuration for RMA, RAD and SWH fixed couplers



Use of plugs for mating with RAD, RMA and SWH couplers

Unipole type:

Reference M for coupling two identical plugs fitted with male contact (contact reference A).

Reference L for coupling a plug fitted with male contacts (contact reference A) at the flange end for RAD and SWH and an inverted plug fitted with female contacts (contact reference L) at the other end.

Reference A for the inverted version of code L.

Multipole type:

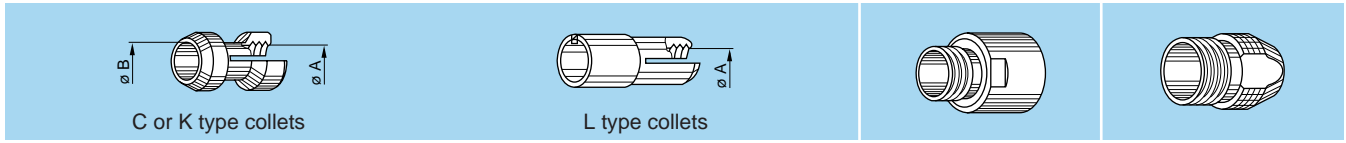
Reference L for coupling a standard plug (contact reference A) at the flange end for RAD and SWH and an inverted plug (contact reference as indicated in the above table) at the other end.

Reference M for coupling two standard plugs (contact type A).
Only available for RAD and RMA models.

Note: ¹⁾ this connector combination does not allow for contact numbering. One of the plugs has to be cable mounted in a way to ensure correct signal continuity.

Collets

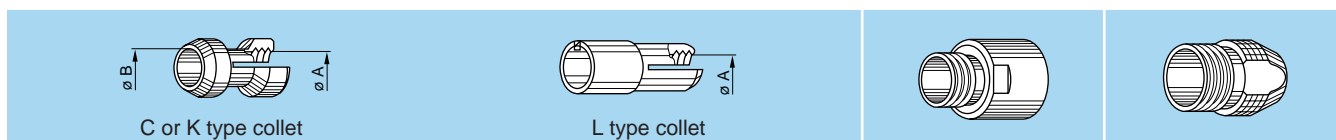
C, K and L type collets



Reference		Collet		Cable \varnothing		Part number of the collet ¹⁾	Part number of the oversize collet and of the split centre-pieces ³⁾	Part number of the collet nut ^{3) 5)}	
Type	\varnothing	$\varnothing A$	$\varnothing B$	max.	min.				
OS	C	17	1.7	–	1.6	1.3	FFA.0S.717.CN	–	FFA.0S.130.LC
	C	22	2.2	–	2.1	1.7	FFA.0S.722.CN	–	FFA.0S.130.LC
	C	27	2.7	–	2.6	2.2	FFA.0S.727.CN	–	FFA.0S.130.LC
	C	32	3.2	–	3.1	2.7	FFA.0S.732.CN	–	FFA.0S.130.LC
	C	37	3.7	–	3.6	3.0	FFA.0S.737.CN	–	FFA.0S.130.LC
	C	42	4.2	3.7	4.1	3.3	FFA.0S.742.CN	–	FFA.0S.130.LC
	C	44	4.4	3.7	4.3	3.5	FFA.0S.744.CN	–	FFA.0S.132.LC
	K	47	4.7	–	4.6	3.8	FFA.1S.747.CN	FFA.0S.137.LCN	FFA.1S.130.LC
	K	52	5.2	–	5.1	4.3	FFA.1S.752.CN	FFA.0S.137.LCN	FFA.1S.130.LC
	K	57	5.7	–	5.6	4.8	FFA.1S.757.CN	FFA.0S.137.LCN	FFA.1S.130.LC
	K	62	6.2	5.2	6.1	5.3	FFA.1S.762.CN	FFA.0S.137.LCN	FFA.1S.130.LC
	K	66	6.6	5.4	6.5	5.9	FFA.1S.766.CN	FFA.0S.137.LCN	FFA.1S.131.LC
	K	68	6.8	–	6.7	6.0	FFA.1S.768.CN	FFA.0S.137.LCN	FFA.1S.131.LC
	C	17	1.7	–	1.6	1.3	FLA.0S.717.CN ⁴⁾	–	FFA.0S.130.LC
	C	22	2.2	–	2.1	1.7	FLA.0S.722.CN ⁴⁾	–	FFA.0S.130.LC
	C	27	2.7	–	2.6	2.2	FLA.0S.727.CN ⁴⁾	–	FFA.0S.130.LC
	C	32	3.2	–	3.1	2.7	FLA.0S.732.CN ⁴⁾	–	FFA.0S.130.LC
	C	37	3.7	–	3.6	3.0	FLA.0S.737.CN ⁴⁾	–	FFA.0S.130.LC
	C	42	4.2	3.7	4.1	3.3	FLA.0S.742.CN ⁴⁾	–	FFA.0S.130.LC
	C	44	4.4	3.7	4.3	3.5	FLA.0S.744.CN ⁴⁾	–	FFA.0S.132.LC
L	17	1.7	–	1.6	1.3	FFA.0S.717.LN	–	FFA.0S.130.LC	
L	22	2.2	–	2.1	1.7	FFA.0S.722.LN	–	FFA.0S.130.LC	
L	27	2.7	–	2.6	2.2	FFA.0S.727.LN	–	FFA.0S.130.LC	
L	32	3.2	–	3.1	2.7	FFA.0S.732.LN	–	FFA.0S.130.LC	
L	37	3.7	–	3.6	3.0	FFA.0S.737.LN	–	FFA.0S.130.LC	
L	42	4.2	–	4.1	3.3	FFA.0S.742.LN	–	FFA.0S.130.LC	
L	44	4.4	–	4.3	3.5	FFA.0S.744.LN	–	FFA.0S.132.LC	

Note: see following page for text of notes ¹⁾ through ⁵⁾.
All dimensions are in millimetres.

C, K and L type collets

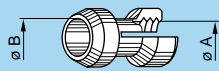


Reference	Collet		Cable \varnothing		Part number of the collet ¹⁾	Part number of the oversize collet and of the split centre-pieces ³⁾	Part number of the collet nut ^{3) 5)}		
	Type	\varnothing	\varnothing A	\varnothing B				max.	min.
1S	C	17	1.7	–	1.6	1.3	FFA.1S.717.CN	–	FFA.1S.130.LC
	C	22	2.2	–	2.1	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 ⁴⁾	–	FFA.1S.130.LC
	C	22	2.2	–	2.1	1.7	FLA.1S.722.CN ⁴⁾	–	FFA.1S.130.LC
	C	27	2.7	–	2.6	2.2	FLA.1S.727.CN ⁴⁾	–	FFA.1S.130.LC
	C	32	3.2	–	3.1	2.6	FLA.1S.732.CN ⁴⁾	–	FFA.1S.130.LC
	C	37	3.7	–	3.6	2.7	FLA.1S.737.CN ⁴⁾	–	FFA.1S.130.LC
	C	42	4.2	–	4.1	3.3	FLA.1S.742.CN ⁴⁾	–	FFA.1S.130.LC
	C	47	4.7	–	4.6	3.8	FLA.1S.747.CN ⁴⁾	–	FFA.1S.130.LC
	C	52	5.2	–	5.1	4.3	FLA.1S.752.CN ⁴⁾	–	FFA.1S.130.LC
	C	57	5.7	–	5.6	4.8	FLA.1S.757.CN ⁴⁾	–	FFA.1S.130.LC
	C	62	6.2	5.2	6.1	5.3	FLA.1S.762.CN ⁴⁾	–	FFA.1S.130.LC
	C	66	6.6	5.4	6.5	5.9	FLA.1S.766.CN ⁴⁾	–	FFA.1S.131.LC
	C	68	6.8	5.5	6.7	6.0	FLA.1S.768.CN ⁴⁾	–	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	

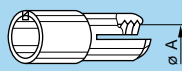
Note:

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

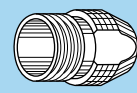
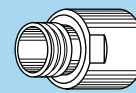
C, K and L type collets



C or K type collet



L type collet



2S

Reference		Collet		Cable ø		Part number of the collet ¹⁾	Part number of the oversize collet and of the split centre-pieces ³⁾	Part number of the collet nut ^{3) 5)}
Type	ø	ø A	ø B	max.	min.			
C	17	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 ⁴⁾	–	FFA.2S.130.LC
C	27	2.7	–	2.5	1.7	FLA.2S.727.CN ⁴⁾	–	FFA.2S.130.LC
C	32	3.2	–	3.0	2.5	FLA.2S.732.CN ⁴⁾	–	FFA.2S.130.LC
C	42	4.2	–	4.0	3.1	FLA.2S.742.CN ⁴⁾	–	FFA.2S.130.LC
C	52	5.2	–	5.0	4.1	FLA.2S.752.CN ⁴⁾	–	FFA.2S.130.LC
C	62	6.2	–	6.0	5.1	FLA.2S.762.CN ⁴⁾	–	FFA.2S.130.LC
C	72	7.2	6.7	7.0	6.1	FLA.2S.772.CN ⁴⁾	–	FFA.2S.130.LC
C	77	7.7	6.7	7.5	7.1	FLA.2S.777.CN ⁴⁾	–	FFA.2S.130.LC
C	82	8.2	6.7	8.0	7.6	FLA.2S.782.CN ⁴⁾	–	FFA.2S.130.LC
C	87	8.7	6.7	8.5	8.1	FLA.2S.787.CN ⁴⁾	–	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:

¹⁾ for ordering collets separately.

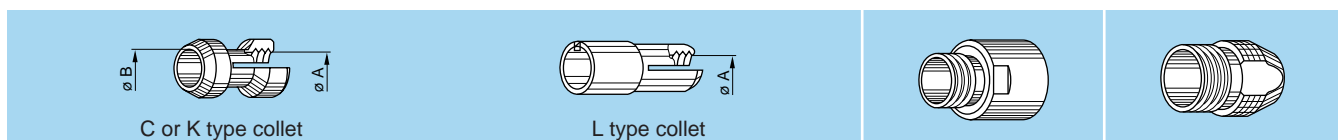
³⁾ for ordering a K type collet separately, the oversize collet and the corresponding collet nut should also be ordered.

⁴⁾ these collets should be used with FLA, FFP and PCP models.

⁵⁾ for models with bend relief, the FFM.●●.130.LC collet nut should be ordered.

All dimensions are in millimetres.

C, K and L type collets



Reference	Collet		Cable \varnothing		Part number of the collet ¹⁾	Part number of the oversize collet and of the split centre-pieces ³⁾	Part number of the collet nut ^{3) 5)}		
	Type	\varnothing	$\varnothing A$	$\varnothing B$				max.	min.
3S	C	32	3.2	–	3.0	2.5	FFA.3S.732.CN	–	FFA.3S.130.LC
	C	42	4.2	–	4.0	3.1	FFA.3S.742.CN	–	FFA.3S.130.LC
	C	52	5.2	–	5.0	4.1	FFA.3S.752.CN	–	FFA.3S.130.LC
	C	62	6.2	–	6.0	5.1	FFA.3S.762.CN	–	FFA.3S.130.LC
	C	72	7.2	–	7.0	6.1	FFA.3S.772.CN	–	FFA.3S.130.LC
	C	82	8.2	–	8.0	7.1	FFA.3S.782.CN	–	FFA.3S.130.LC
	C	92	9.2	8.7	9.0	8.1	FFA.3S.792.CN	–	FFA.3S.130.LC
	C	97	9.7	8.7	9.5	9.1	FFA.3S.797.CN	–	FFA.3S.130.LC
	C	10	10.2	8.7	10.0	9.6	FFA.3S.710.CN	–	FFA.3S.130.LC
	C	11	10.7	9.0	10.5	10.1	FFA.3S.711.CN	–	FFA.3S.130.LC
	K	12	12.2	–	12.0	11.1	FFA.4S.712.CN	FFA.3S.137.LCN	FFA.4S.130.LC
	K	13	13.2	12.2	13.0	12.1	FFA.4S.713.CN	FFA.3S.137.LCN	FFA.4S.130.LC
	C	32	3.2	–	3.0	2.5	FLA.3S.732.CN ⁴⁾	–	FFA.3S.130.LC
	C	42	4.2	–	4.0	3.1	FLA.3S.742.CN ⁴⁾	–	FFA.3S.130.LC
	C	52	5.2	–	5.0	4.1	FLA.3S.752.CN ⁴⁾	–	FFA.3S.130.LC
	C	62	6.2	–	6.0	5.1	FLA.3S.762.CN ⁴⁾	–	FFA.3S.130.LC
	C	72	7.2	–	7.0	6.1	FLA.3S.772.CN ⁴⁾	–	FFA.3S.130.LC
	C	82	8.2	–	8.0	7.1	FLA.3S.782.CN ⁴⁾	–	FFA.3S.130.LC
	C	92	9.2	8.7	9.0	8.1	FLA.3S.792.CN ⁴⁾	–	FFA.3S.130.LC
	C	97	9.7	8.7	9.5	9.1	FLA.3S.797.CN ⁴⁾	–	FFA.3S.130.LC
C	10	10.7	8.7	10.5	9.8	FLA.3S.710.CN ⁴⁾	–	FFA.3S.130.LC	
C	11	10.7	9.0	10.5	10.1	FLA.3S.711.CN ⁴⁾	–	FFA.3S.130.LC	
L	42	4.2	–	4.0	3.1	FFA.3S.742.LN	–	FFA.3S.130.LC	
L	52	5.2	–	5.0	4.1	FFA.3S.752.LN	–	FFA.3S.130.LC	
L	62	6.2	–	6.0	5.1	FFA.3S.762.LN	–	FFA.3S.130.LC	
L	72	7.2	–	7.0	6.1	FFA.3S.772.LN	–	FFA.3S.130.LC	
L	82	8.2	–	8.0	7.1	FFA.3S.782.LN	–	FFA.3S.130.LC	
L	92	9.2	–	9.0	8.1	FFA.3S.792.LN	–	FFA.3S.130.LC	
L	97	9.7	–	9.5	9.1	FFA.3S.797.LN	–	FFA.3S.130.LC	
L	10	10.2	–	10.0	9.6	FFA.3S.710.LN	–	FFA.3S.130.LC	
L	11	10.7	–	10.5	10.1	FFA.3S.711.LN	–	FFA.3S.130.LC	

Note:

¹⁾ for ordering collets separately.

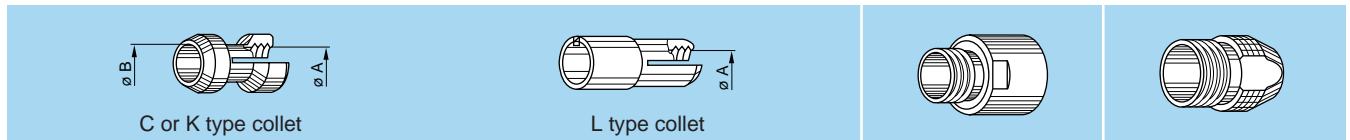
³⁾ for ordering a K type collet separately, the oversize collet and the corresponding collet nut should also be ordered.

⁴⁾ these collets should be used with FLA, FFP and PCP models.

⁵⁾ for models with bend relief, the FFM.●●.130.LC collet nut should be ordered.

All dimensions are in millimetres.

C, K and L type collets



4S

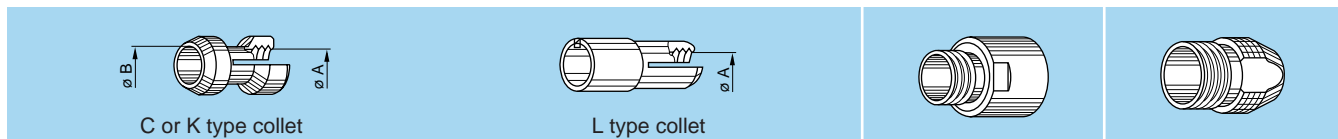
Reference		Collet		Cable \varnothing		Part number of the collet ¹⁾	Part number of the oversize collet and of the split centre-pieces ³⁾	Part number of the collet nut ^{3) 5)}
Type	\varnothing	\varnothing A	\varnothing B	max.	min.			
C	52	5.2	–	5.0	4.1	FFA.4S.752.CN	–	FFA.4S.130.LC
C	62	6.2	–	6.0	5.1	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 ⁴⁾	–	FFA.4S.130.LC
C	62	6.2	–	6.0	5.1	FLA.4S.762.CN ⁴⁾	–	FFA.4S.130.LC
C	72	7.2	–	7.0	6.1	FLA.4S.772.CN ⁴⁾	–	FFA.4S.130.LC
C	82	8.2	–	8.0	7.1	FLA.4S.782.CN ⁴⁾	–	FFA.4S.130.LC
C	92	9.2	–	9.0	8.1	FLA.4S.792.CN ⁴⁾	–	FFA.4S.130.LC
C	10	10.2	–	10.0	9.1	FLA.4S.710.CN ⁴⁾	–	FFA.4S.130.LC
C	11	11.2	–	11.0	10.1	FLA.4S.711.CN ⁴⁾	–	FFA.4S.130.LC
C	12	12.2	–	12.0	11.1	FLA.4S.712.CN ⁴⁾	–	FFA.4S.130.LC
C	13	13.2	12.2	13.0	12.6	FLA.4S.713.CN ⁴⁾	–	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:

- ¹⁾ for ordering collets separately.
 - ³⁾ for ordering a K type collet separately, the oversize collet and the corresponding collet nut should also be ordered.
 - ⁴⁾ these collets should be used with FLA, FFP and PCP models.
 - ⁵⁾ for models with bend relief, the FFM.●●.130.LC collet nut should be ordered.
- All dimensions are in millimetres.

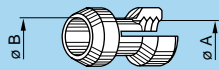
These notes also apply to the following page.

C, K and L type collets

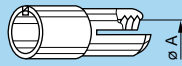


Reference	Collet		Cable \varnothing		Part number of the collet ¹⁾	Part number of the oversize collet and of the split centre-pieces ³⁾	Part number of the collet nut ³⁾		
	Type	\varnothing	\varnothing A	\varnothing B				max.	min.
5S	C	72	7.2	–	7.0	6.1	FFA.5S.772.CN	–	FFA.5S.130.LC
	C	82	8.2	–	8.0	7.1	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	7.2	–	7.0	6.1	FLA.5S.772.CN ²⁾	–	FFA.5S.130.LC	
C	82	8.2	–	8.0	7.1	FLA.5S.782.CN ²⁾	–	FFA.5S.130.LC	
C	92	9.2	–	9.0	8.1	FLA.5S.792.CN ²⁾	–	FFA.5S.130.LC	
C	10	10.2	–	10.0	9.1	FLA.5S.710.CN ²⁾	–	FFA.5S.130.LC	
C	11	11.2	–	11.0	10.1	FLA.5S.711.CN ²⁾	–	FFA.5S.130.LC	
C	12	12.2	–	12.0	11.1	FLA.5S.712.CN ²⁾	–	FFA.5S.130.LC	
C	13	13.2	–	13.0	12.1	FLA.5S.713.CN ²⁾	–	FFA.5S.130.LC	
C	14	14.2	–	14.0	13.1	FLA.5S.714.CN ²⁾	–	FFA.5S.130.LC	
C	15	15.2	–	15.0	14.1	FLA.5S.715.CN ²⁾	–	FFA.5S.130.LC	
C	16	16.2	–	16.0	15.1	FLA.5S.716.CN ²⁾	–	FFA.5S.130.LC	
C	17	17.2	–	17.0	16.1	FLA.5S.717.CN ²⁾	–	FFA.5S.130.LC	
C	18	18.2	–	18.0	17.1	FLA.5S.718.CN ²⁾	–	FFA.5S.130.LC	
C	19	19.2	–	19.0	18.1	FLA.5S.719.CN ²⁾	–	FFA.5S.130.LC	
C	20	20.2	19.7	20.0	19.1	FLA.5S.720.CN ²⁾	–	FFA.5S.130.LC	
C	21	21.2	19.7	21.0	20.1	FLA.5S.721.CN ²⁾	–	FFA.5S.130.LC	
C	22	22.2	19.7	22.0	21.1	FLA.5S.722.CN ²⁾	–	FFA.5S.130.LC	
L	92	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	

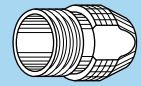
C and L type collets



C type collet



L type collet



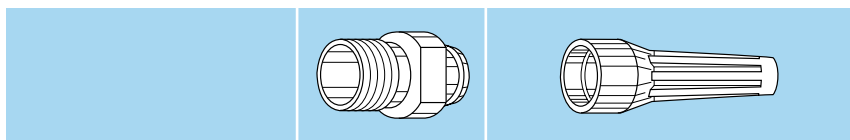
6S

Reference		Collet		Cable \varnothing		Part number of the collet ¹⁾	Part number of the oversize collet and of the split centre-pieces	Part number of the collet nut
Type	\varnothing	$\varnothing A$	$\varnothing B$	max.	min.			
C	12	12.2	–	12.0	11.1	FFA.6S.712.CN	–	FFA.6S.130.LC
C	13	13.2	–	13.0	12.1	FFA.6S.713.CN	–	FFA.6S.130.LC
C	14	14.2	–	14.0	13.1	FFA.6S.714.CN	–	FFA.6S.130.LC
C	15	15.2	–	15.0	14.1	FFA.6S.715.CN	–	FFA.6S.130.LC
C	16	16.2	–	16.0	15.1	FFA.6S.716.CN	–	FFA.6S.130.LC
C	17	17.2	–	17.0	16.1	FFA.6S.717.CN	–	FFA.6S.130.LC
C	18	18.2	–	18.0	17.1	FFA.6S.718.CN	–	FFA.6S.130.LC
C	19	19.2	–	19.0	18.1	FFA.6S.719.CN	–	FFA.6S.130.LC
C	20	20.2	–	20.0	19.1	FFA.6S.720.CN	–	FFA.6S.130.LC
C	21	21.2	–	21.0	20.1	FFA.6S.721.CN	–	FFA.6S.130.LC
C	22	22.2	–	22.0	21.1	FFA.6S.722.CN	–	FFA.6S.130.LC
C	23	23.2	–	23.0	22.1	FFA.6S.723.CN	–	FFA.6S.130.LC
C	24	24.2	–	24.0	23.1	FFA.6S.724.CN	–	FFA.6S.130.LC
C	25	25.2	–	25.0	24.1	FFA.6S.725.CN	–	FFA.6S.130.LC
C	26	26.2	–	26.0	25.1	FFA.6S.726.CN	–	FFA.6S.130.LC
C	27	27.2	–	27.0	26.1	FFA.6S.727.CN	–	FFA.6S.130.LC
C	28	28.2	27.2	28.0	27.1	FFA.6S.728.CN	–	FFA.6S.130.LC
C	29	29.2	27.2	29.0	28.1	FFA.6S.729.CN	–	FFA.6S.130.LC
C	30	30.2	27.2	30.0	29.1	FFA.6S.730.CN	–	FFA.6S.130.LC
L	13	12.2	–	12.0	11.1	FFA.6S.712.LN	–	FFA.6S.130.LC
L	14	13.2	–	13.0	12.1	FFA.6S.713.LN	–	FFA.6S.130.LC
L	15	14.2	–	14.0	13.1	FFA.6S.714.LN	–	FFA.6S.130.LC
L	16	15.2	–	15.0	14.1	FFA.6S.715.LN	–	FFA.6S.130.LC
L	17	16.2	–	16.0	15.1	FFA.6S.716.LN	–	FFA.6S.130.LC
L	18	17.2	–	17.0	16.1	FFA.6S.717.LN	–	FFA.6S.130.LC
L	19	18.2	–	18.0	17.1	FFA.6S.718.LN	–	FFA.6S.130.LC
L	20	19.2	–	19.0	18.1	FFA.6S.719.LN	–	FFA.6S.130.LC
L	21	20.2	–	20.0	19.1	FFA.6S.720.LN	–	FFA.6S.130.LC
L	22	21.2	–	21.0	20.1	FFA.6S.721.LN	–	FFA.6S.130.LC
L	23	22.2	–	22.0	21.1	FFA.6S.722.LN	–	FFA.6S.130.LC
L	24	23.2	–	23.0	22.1	FFA.6S.723.LN	–	FFA.6S.130.LC
L	25	24.2	–	24.0	23.1	FFA.6S.724.LN	–	FFA.6S.130.LC
L	26	25.2	–	25.0	24.1	FFA.6S.725.LN	–	FFA.6S.130.LC
L	27	26.2	–	26.0	25.1	FFA.6S.726.LN	–	FFA.6S.130.LC
L	28	27.2	–	27.0	26.1	FFA.6S.727.LN	–	FFA.6S.130.LC
L	29	28.2	–	28.0	27.1	FFA.6S.728.LN	–	FFA.6S.130.LC
L	30	29.2	–	29.0	28.1	FFA.6S.729.LN	–	FFA.6S.130.LC
L	31	30.2	–	30.0	29.1	FFA.6S.730.LN	–	FFA.6S.130.LC

Note:

¹⁾ for ordering collets separately.
All dimensions are in millimetres.

Bend relief nut and bend relief



	Reference		Part number of the collet nut	Bend relief to be used ¹⁾
	Type	∅		
0S	C	27 to 42	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●
1S	C	27 to 62	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●
2S	C	42 to 82	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●
3S	C	52 to 10	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●
4S	C	82 to 13	FFM.4S.130.LC	GMA.4B.0●●.D●
	L	82 to 13	FFM.4S.130.LC	GMA.4B.0●●.D●

Note: ¹⁾ the bend relief is to be ordered separately.



Anodized colour

The «variant» position of the reference is used to specify the anodized colour according to the table below.

Part number for connector with standard collet nut

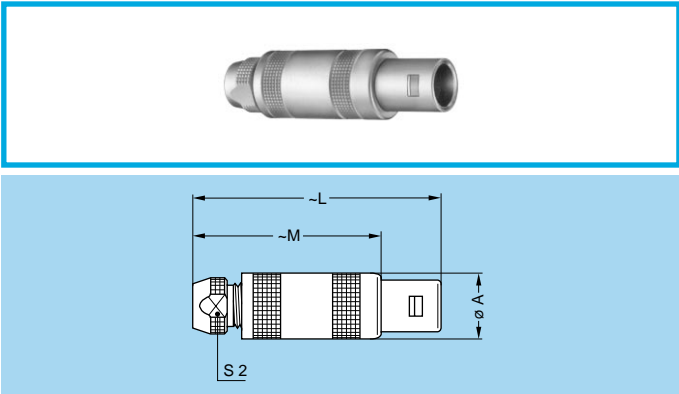
Ref.	Anodized colour	Ref.	Anodized colour
A	blue	R	red
J	yellow	T	natural
N	black	V	green

Part number for connector with bend relief backnut

Ref.	Anodized colour
L	black
X	natural

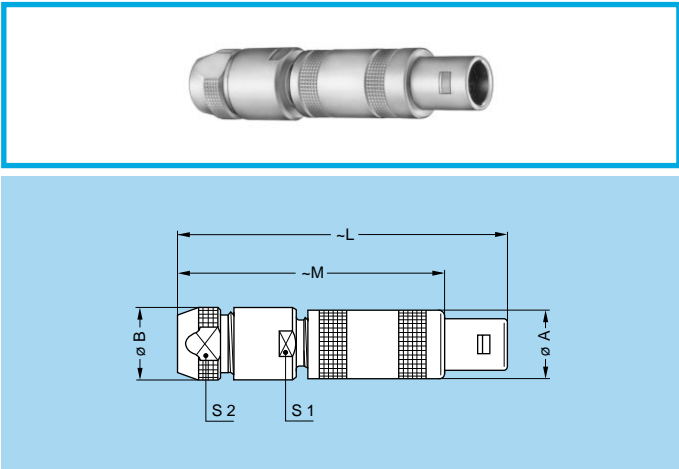
Note: other anodizing colours are available for connectors with bend relief backnut. Please consult us.

Models - Series



FFA Straight plug, cable collet

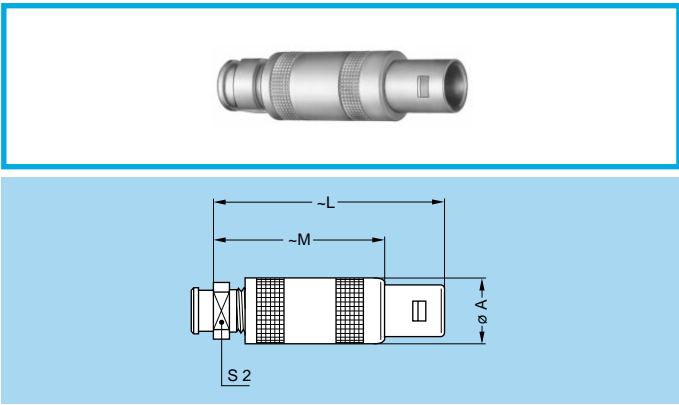
Reference		Dimensions (mm)			
Model	Series	A	L	M	S2
FFA	00	6.4	26.0	18.0	4.5
FFA	0S	9.0	34.5	24.5	6.5
FFA	1S	12.0	42.5	31.5	8.5
FFA	2S	14.8	52.0	40.0	11.0
FFA	3S	17.8	61.0	46.0	14.0
FFA	4S	24.8	77.0	59.0	19.0
FFA	5S	35.1	103.0	78.0	29.0
FFA	6S	46.0	106.0	81.0	38.0



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

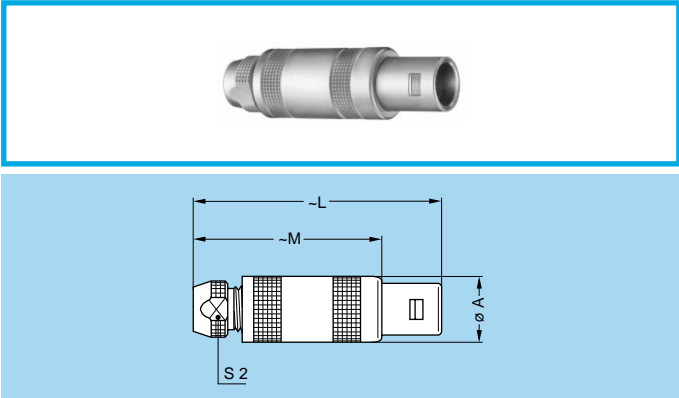
Note: the fitting of oversize collets onto this model allows them to be fitted to the cables that can be accommodated by the next housing size up.



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

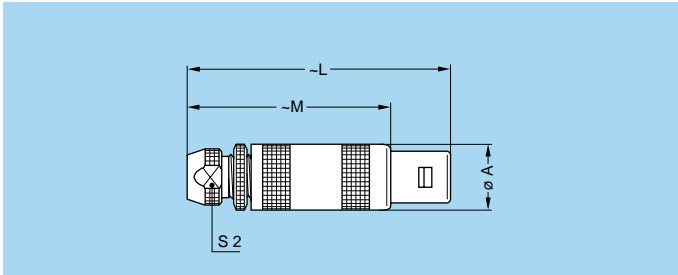
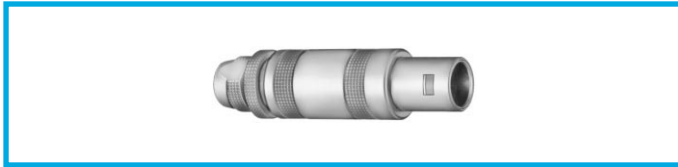
Reference		Dimensions (mm)			
Model	Series	A	L	M	S2
FFA	00	6.4	26.0	18.0	6
FFA	0S	9.0	34.5	24.5	7
FFA	1S	12.0	42.5	31.5	9
FFA	2S	14.8	52.0	40.0	12
FFA	3S	17.8	61.0	46.0	14
FFA	4S	24.8	77.0	59.0	20

Note: the bend relief must be ordered separately.



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

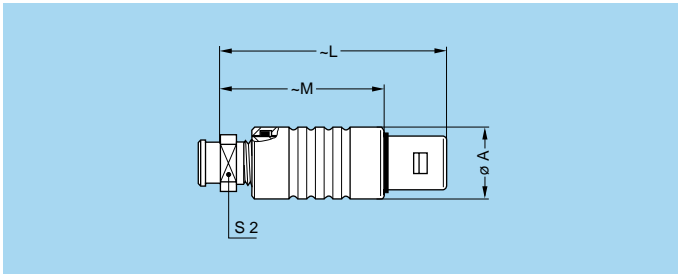
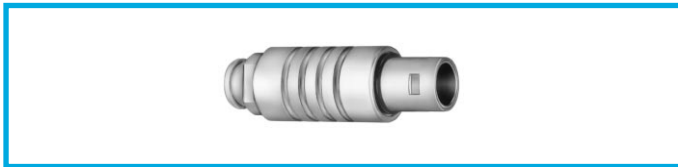
Reference		Dimensions (mm)			
Model	Series	A	L	M	S2
FFP	0S	9.0	34.5	24.5	6.5
FFP	1S	12.0	42.5	31.5	8.5
FFP	2S	14.8	52.0	40.0	11.0
FFP	3S	17.8	61.0	46.0	14.0
FFP	4S	24.8	77.0	59.0	19.0



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

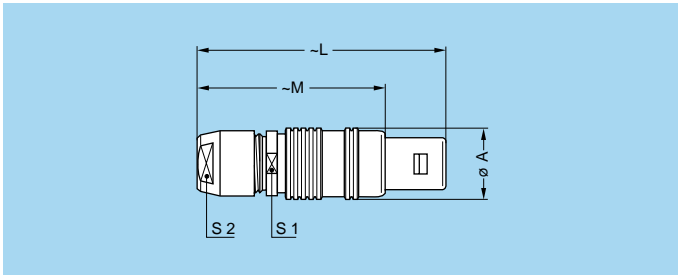
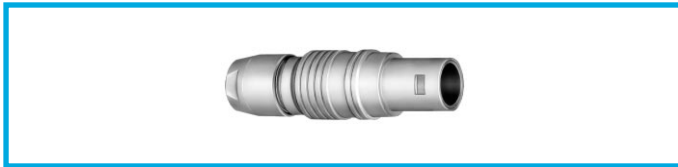
Note: not available with nut for fitting a bend relief.



FFE Straight plug, cable collet, front seal and nut for fitting a bend relief (protected to IP54 when mated)

Reference		Dimensions (mm)			
Model	Series	A	L	M	S2
FFE	00	7.4	26.0	18.0	6
FFE	0S	10.0	34.5	24.5	7
FFE	1S	13.0	42.5	31.5	9
FFE	2S	16.0	52.0	40.0	12
FFE	3S	19.0	61.0	46.0	14

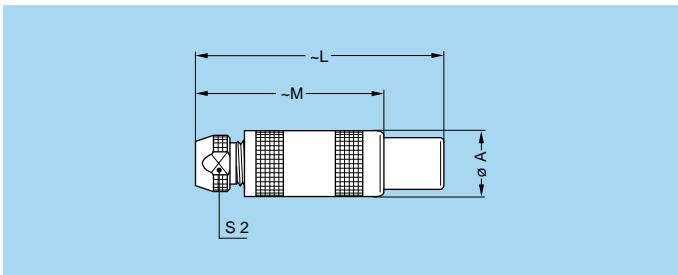
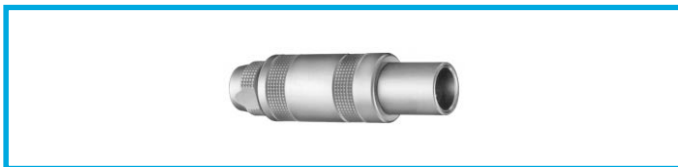
Note: the bend relief must be ordered separately.



FFL Straight plug, flats on latch sleeve, cable collet and inner anti-rotating device

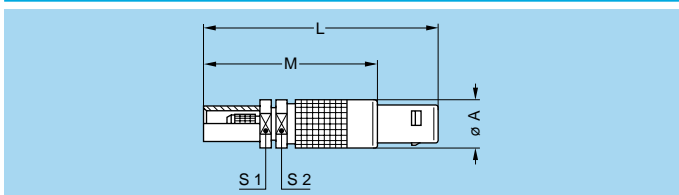
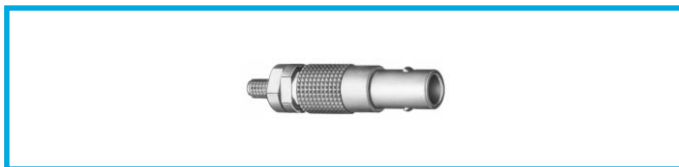
Reference		Dimensions (mm)				
Model	Series	A	L	M	S1	S2
FFL	2S	15.0	49.0	37.0	13	12

Note: this model is fitted with a «D or M» type collet system. It is also adapted for crimp contacts.



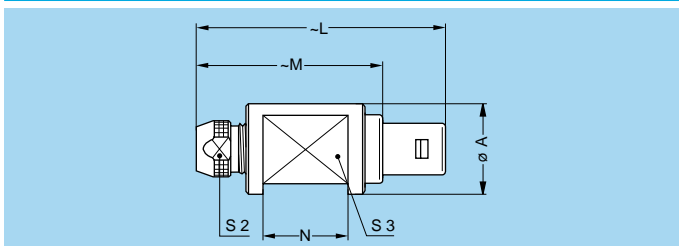
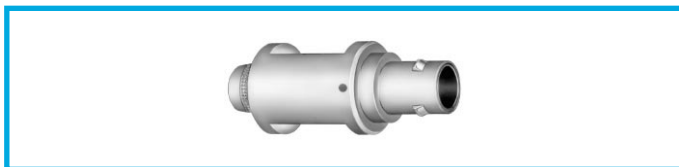
FFF Straight plug, non-latching, cable collet

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



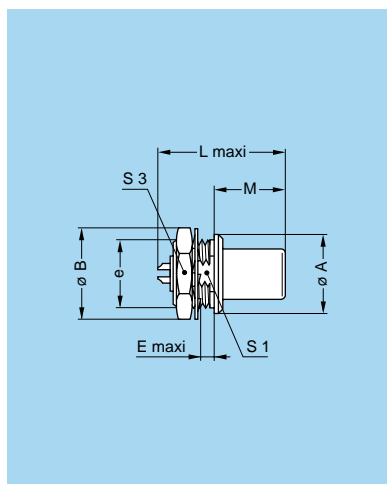
FFS Straight plug for cable crimping

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
FZP	6S	60	106.0	81.0	44	38.0	50



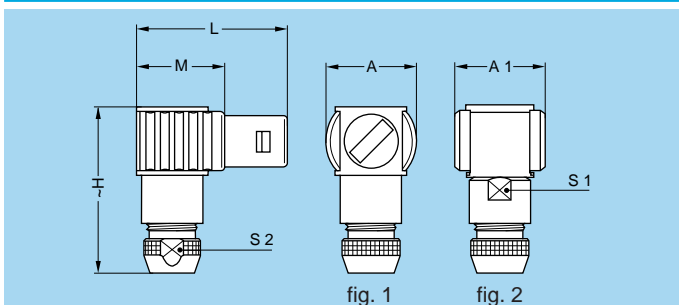
FAA Fixed plug non-latching, nut fixing

Reference		Dimensions (mm)								
Model	Series	A	B	e	E	L	L ¹⁾	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	–
FAA	6S	54	54.0	M48x1.5	2.5	45.0	–	28.0	–	–

Panel cut-out: **P1**

Panel cut-out: **P2** 6S series

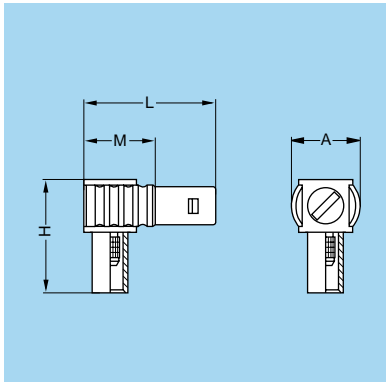
Note: ¹⁾ unipole model



FLA Elbow (90°) plug, cable collet

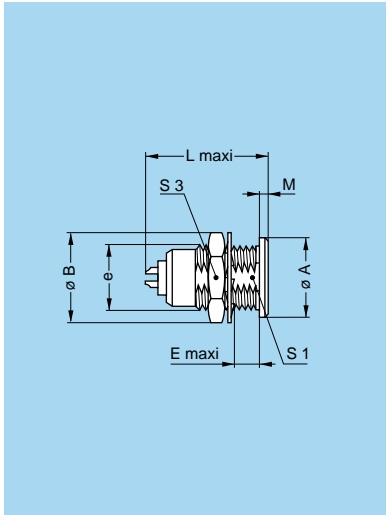
Reference		Dimensions (mm)						
Model	Series	A	A1	H	L	M	S1	S2
FLA	00	9	–	16.0	17.5	9.5	–	4.5
FLA	0S	13	13	24.5	23.0	13.0	8	6.5
FLA	1S	16	16	28.5	26.5	15.5	10	8.5
FLA	2S	20	20	37.0	31.0	19.0	13	11.0
FLA	3S	21	21	44.0	38.5	23.5	15	14.0
FLA	4S	28	28	56.0	49.0	31.0	20	19.0
FLA	5S	–	37	76.5	65.0	40.0	30	29.0
FLA	6S	–	48	94.0	81.0	56.0	40	38.0

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



FLS Elbow (90°) plug for cable crimping

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

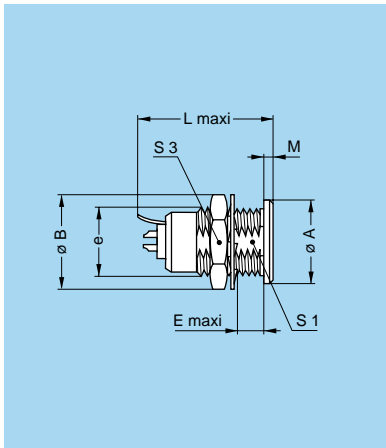


ERA Fixed socket, nut fixing

Reference		Dimensions (mm)								
Model	Series	A	B	e	E	L	L ¹⁾	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	–
ERA	6S	54	54.0	M48x1.5	16.0	45.0	–	3.5	45.5	–

Note: ¹⁾ unipole model

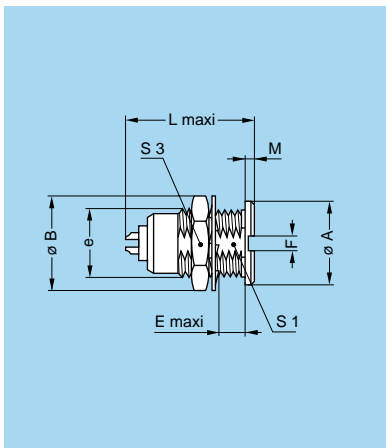
Note: the 5S series is delivered with a tapered washer and a round nut. The 6S series is delivered without a locking washer and with a round nut.



ERN Fixed socket, nut fixing, with earthing tag

Reference		Dimensions (mm)								
Model	Series	A	B	e	E	L	L ¹⁾	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

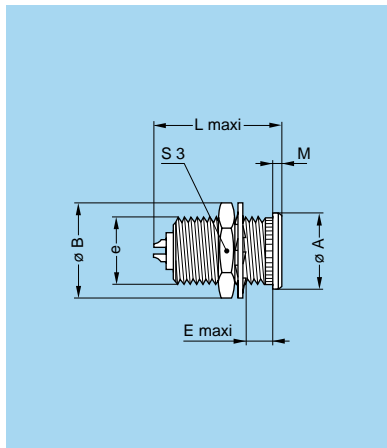
Note: ¹⁾ unipole model



ERC Fixed socket, nut fixing with slot in the flange

Reference		Dimensions (mm)									
Model	Series	A	B	e	E	F	L	L ¹⁾	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

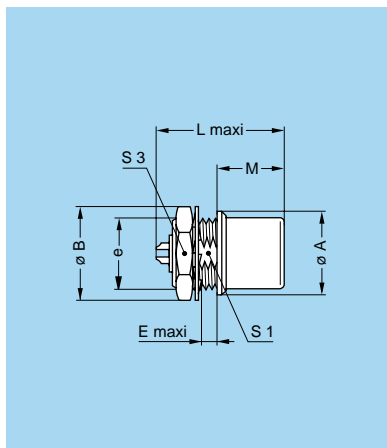
Note: ¹⁾ unipole model



ERS Fixed socket, nut fixing, long threaded shell, without flats

Reference		Dimensions (mm)							
Model	Series	A	B	e	E	L	L ¹⁾	M	S3
ERS	0S	10	12.5	M9x0.6	10.5	17.5	18.5	1.2	11

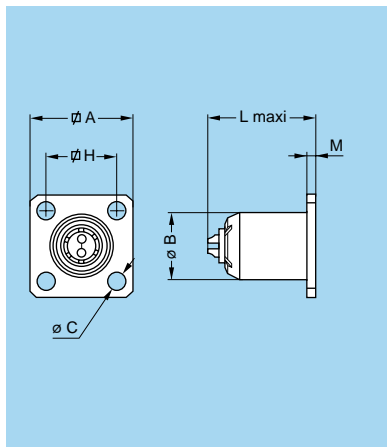
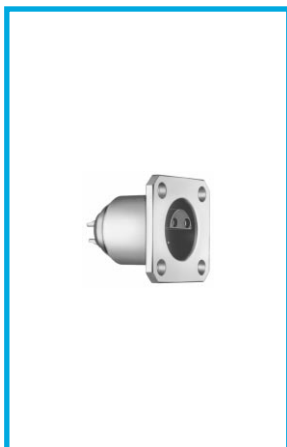
Note: ¹⁾ unipole model



EHP Fixed socket, nut fixing, protruding shell

Reference		Dimensions (mm)								
Model	Series	A	B	e	E	L	L ¹⁾	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

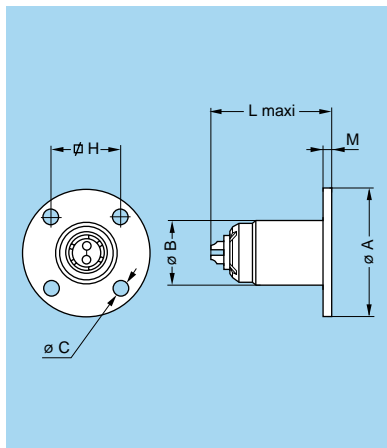
Note: ¹⁾ unipole model



EBD Fixed socket with square flange and screw fixing

Reference		Dimensions (mm)						
Model	Series	A	B	C	H	L	L ¹⁾	M
EBD	2S	22	15	3.2	15.5	24.5	26	2

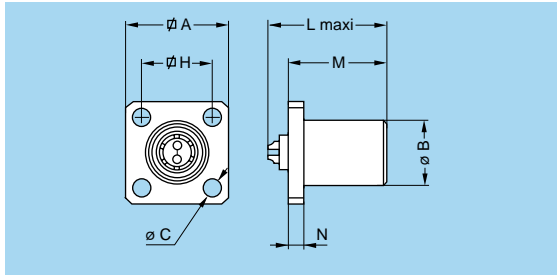
Note: ¹⁾ unipole model



EBS Fixed socket with round flange and screw fixing

Reference		Dimensions (mm)						
Model	Series	A	B	C	H	L	L ¹⁾	M
EBS	1S	22	11	2.5	12.4	20.2	21.5	1.5

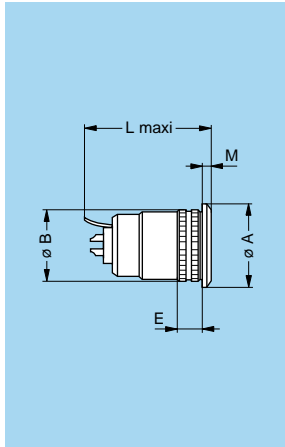
Note: ¹⁾ unipole model



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

Reference		Dimensions (mm)							
Model	Series	A	B	C	H	L	L ¹⁾	M	N
EBC	1S	18	11.5	3.2	12.7	20.2	21.5	16.5	2.8
EBC	2S	22	15.0	3.2	15.5	24.5	26.0	18.5	4.4
EBC	3S	25	18.0	3.2	18.0	29.0	30.0	23.5	3.0
EBC	5S	45	40.0	4.3	36.8	45.0	53.5	15.0	4.0

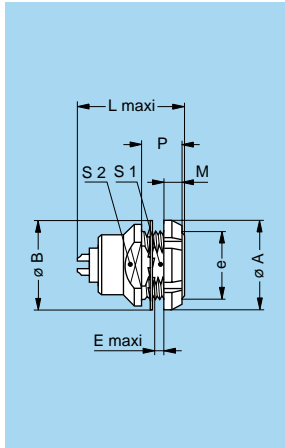
Note: ¹⁾ unipole model



ERT Fixed socket, force fit, with earthing tag

Reference		Dimensions (mm)					
Model	Series	A	B	E	L	L ¹⁾	M
ERT	1S	14	11.98	3.5	20.2	21.5	1.5

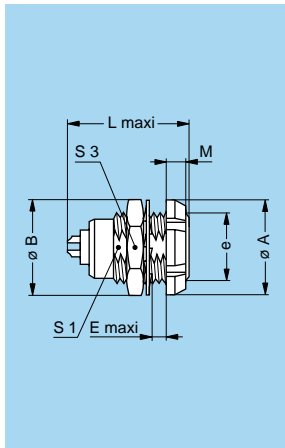
Note: ¹⁾ unipole model



EEP Fixed socket, nut fixing (back panel mounting)

Reference		Dimensions (mm)									
Model	Series	A	B	e	E	L	L ¹⁾	M	P	S1	S2
EEP	2S	20	19.5	M15x1.0	3.5	24.5	26	3.5	9	13.5	15

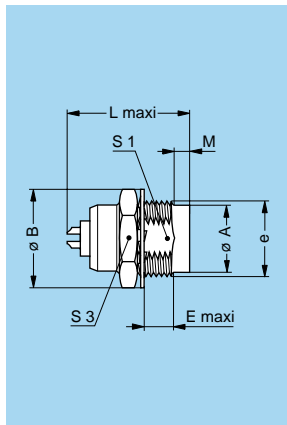
Note: ¹⁾ unipole model



ERD Fixed socket with two nuts (back panel mounting)

Reference		Dimensions (mm)								
Model	Series	A	B	e	E	L	L ¹⁾	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

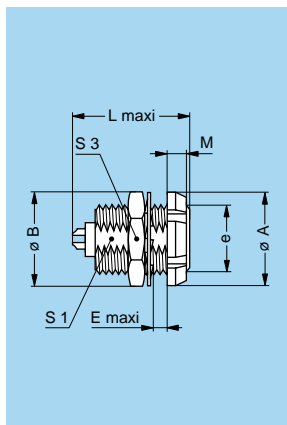
Note: ¹⁾ unipole model.
The 3S and 4S series are delivered with a conical nut.



ERY Fixed socket, protruding shell, screw fixing on the panel (back panel mounting)

Reference		Dimensions (mm)								
Model	Series	A	B	e	E	L	L ¹⁾	M	S1	S3
ERY	2S	13.5	19.5	M15x1.0	6	24.5	26	3.1	13.5	17

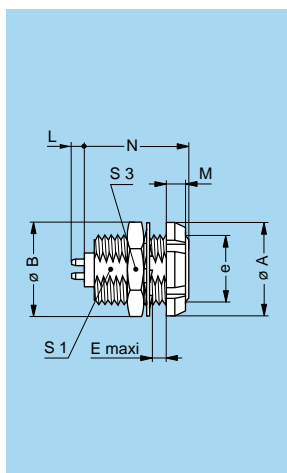
Note: 1) unipole model



ECP Fixed socket with two nuts, long threaded shell (back panel mounting)

Reference		Dimensions (mm)								
Model	Series	A	B	e	E	L	L ¹⁾	M	S1	S3
ECP	0S	12	12.5	M9x0.6	8.5	17.5	18.5	2.5	8.2	11
ECP	1S	16	16.0	M12x1.0	10.0	20.2	21.5	3.5	10.5	14
ECP	2S	20	19.5	M15x1.0	11.0	24.5	26.0	3.5	13.5	17
ECP	3S	24	25.2	M18x1.0	14.0	29.0	30.0	4.5	16.5	22

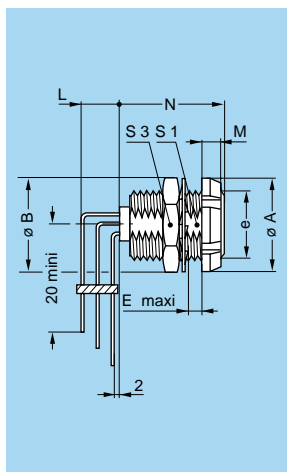
Note: 1) unipole model.
The 3S series is delivered with a conical nut.



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	0S	12	12.5	M9x0.6	8.5	2.5	15.0	8.2	11	
ECP	1S	16	16.0	M12x1.0	10.0	3.5	17.5	10.5	14	
ECP	2S	20	19.5	M15x1.0	11.0	3.5	20.0	13.5	17	
ECP	3S	24	25.2	M18x1.0	14.0	4.5	24.0	16.5	22	

Note: this contact type is available for all E●● socket models.
See table of available types.
Length «L» depends on the number of contacts.
The 3S series is delivered with a conical nut.



ECP Fixed socket with two nuts, long threaded shell, with elbow (90°) contacts for printed circuit (back panel mounting)

Reference		Dimensions (mm)								
Model	Series	A	B	e	E	M	N	S1	S3	
ECP	0S	12	12.5	M9x0.6	8.5	2.5	15.0	8.2	11	
ECP	1S	16	16.0	M12x1.0	10.0	3.5	17.5	10.5	14	
ECP	2S	20	19.5	M15x1.0	11.0	3.5	20.0	13.5	17	
ECP	3S	24	25.2	M18x1.0	14.0	4.5	24.0	16.5	22	

Note: this contact type is available for all back panel mounting socket types.
See table of available types.
Length «L» depends on the number of contacts, see PCB drilling pattern.
The 3S series is delivered with a conical nut.



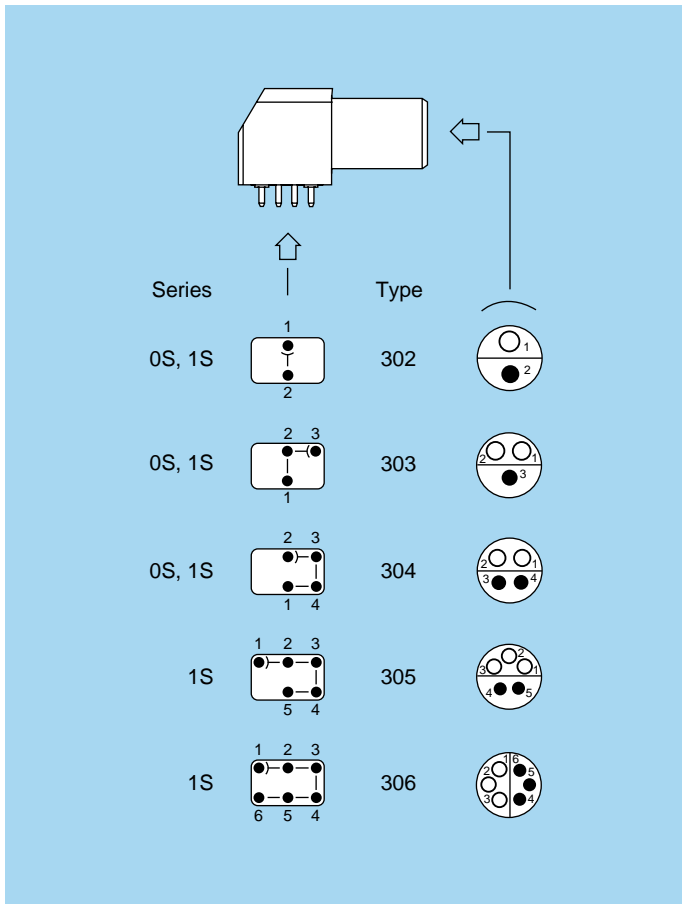
Elbow (90°) sockets for printed circuit

These socket models are fixed onto the printed circuit either by soldering the corner pins or with 4 screws (M1.6) replacing the pins.

EXP sockets are 2 nut fixing and are recommended in cases where a flexible printed circuit is used.

Technical Characteristics

Types



Materials and Treatment

Component	Material	Surface Treat. (µm)		
		Cu	Ni	Au
Housing	PPS ¹⁾	-		
	Brass	0.5	3	-
Metallic parts	Brass	0.5	3	-
Earthing crown	Bronze	0.5	3	-
Insulator	PEEK	-		
Female contact	Bronze	0.5	3	1.5

Note: ¹⁾ not used for all sizes.

The surface treatment standards are as follows:

- Nickel FS QQ-N-290A

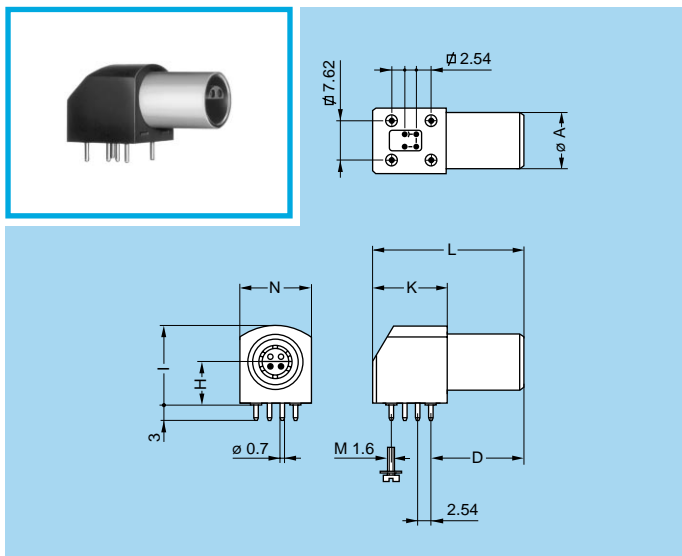
- Gold: ISO 4523

Electrical

Model	Series	Types	Test voltage (kV rms) ¹⁾	Rated current (A)
EPL	0S	302-303-304	1.20	4.5
EXP	0S			
EPL	1S			
EXP	1S	305-306	0.70	4.5
EPL	1S			
EXP	1S			

Note:

¹⁾ see calculation method, caution and suggested standard.

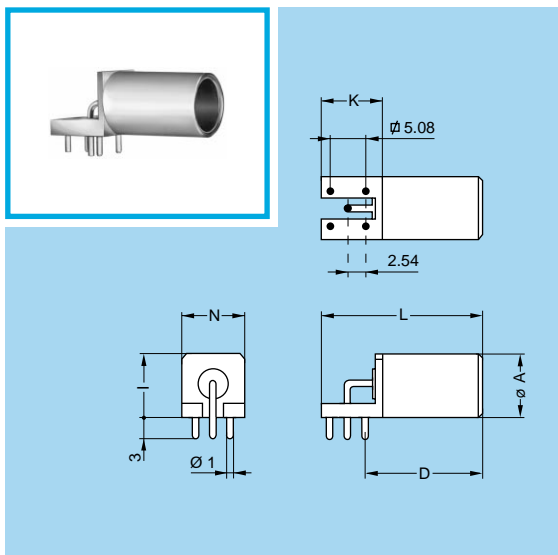


EPL Elbow (90°) socket for printed circuit (solder or screw fixing)

Part Number	Dimensions (mm)						
	A	D	H	I	K	L	N
EPL.0S.302.HLN	9	14.5	6.9	12.7	13.2	25	11.6
EPL.0S.303.HLN							
EPL.0S.304.HLN							
EPL.1S.302.HLN	11	16.5	7.7	14.0	13.2	27	12.6
EPL.1S.303.HLN							
EPL.1S.304.HLN							
EPL.1S.305.HLN							
EPL.1S.306.HLN							
EPL.1S.306.HLNS							

Note: to replace the 4 ground pins by 4 screws (M1.6) add an «S» to the end of the part number. (e.g.: EPL.1S.303.HLNS)

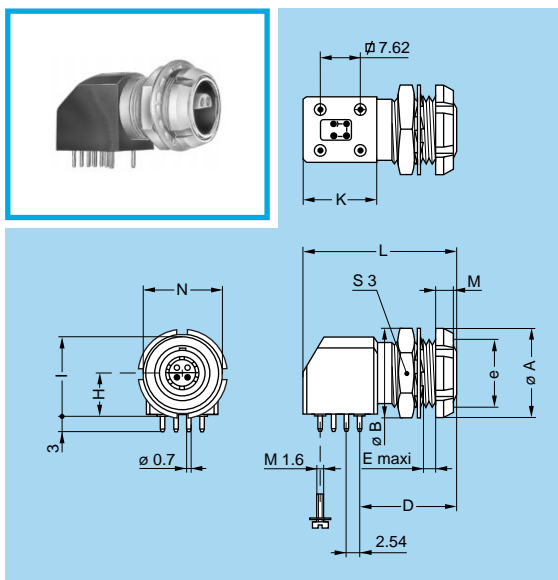
EPL Elbow (90°) socket for printed circuit



Part Number	Dimensions (mm)						
	A	D	H	I	K	L	N
EPL.0S.116.DTL	8.8	16	12	9	7.7	22.7	9

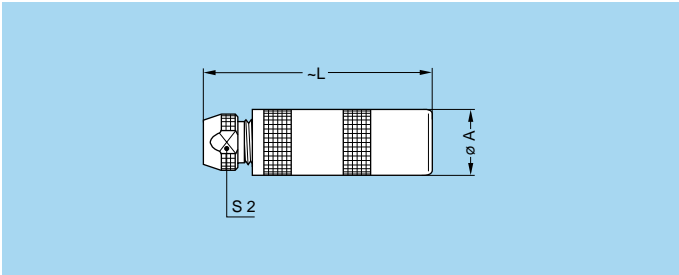
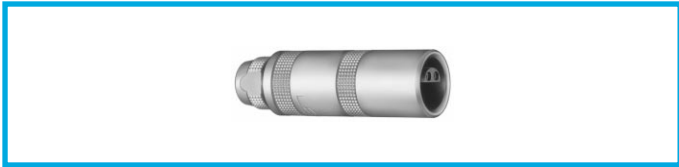
Note: available only in unipole version.

EXP Elbow (90°) socket for printed circuit with two nuts (solder or screw fixing)



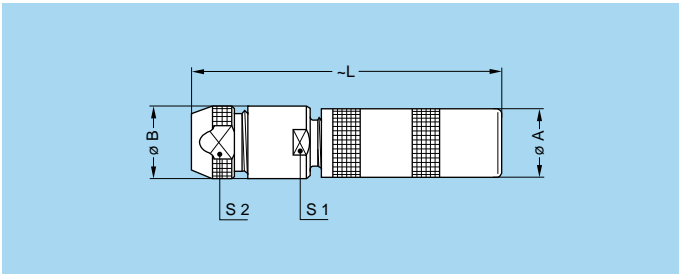
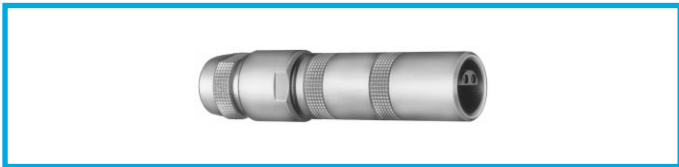
Part Number	Dimensions (mm)											
	A	B	D	e	E	H	I	K	L	M	N	S3
EXP.0S.302.HLN												
EXP.0S.303.HLN	12	12.5	14.5	M9x0.6	6.0	6.9	12.7	13.2	25	2.5	11.6	11
EXP.0S.304.HLN												
EXP.1S.302.HLN												
EXP.1S.303.HLN												
EXP.1S.304.HLN	14	15.0	16.5	M11x0.5	7.5	7.7	14.0	13.2	27	3.5	12.6	13
EXP.1S.305.HLN												
EXP.1S.306.HLN												

Note: to replace the 4 ground pins by 4 screws (M1.6) add an «S» to the end of the part number. (e.g.: EXP.1S.303.HLNS).



PCA Free socket, cable collet

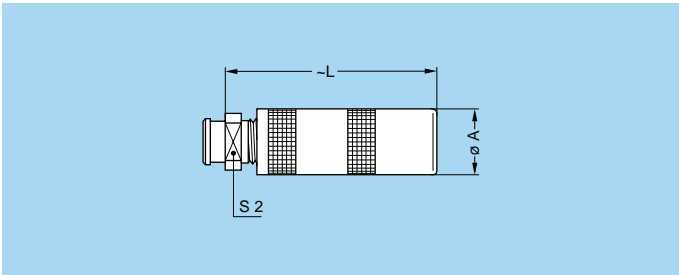
Reference		Dimensions (mm)		
Model	Series	A	L	S2
PCA	00	6.5	25.0	4.5
PCA	0S	8.9	33.5	6.5
PCA	1S	11.9	40.5	8.5
PCA	2S	14.8	50.0	11.0
PCA	3S	17.8	59.0	14.0
PCA	4S	24.8	75.0	19.0
PCA	5S	34.7	99.0	29.0
PCA	6S	46.0	102.0	38.0



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

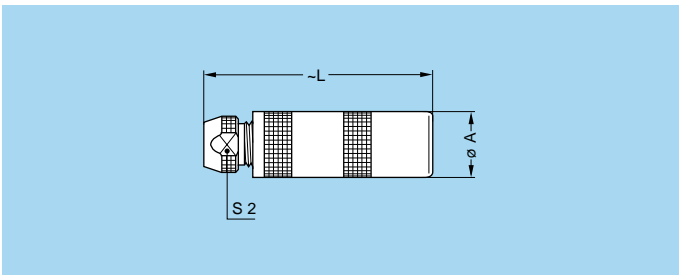
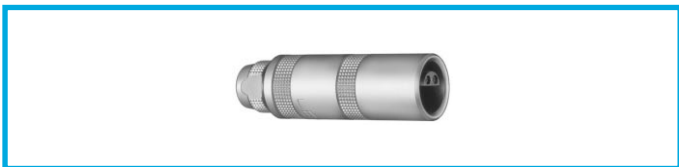
Note: the fitting of oversize collets onto this model allows it to be fitted to the cables that can be accommodated by the next housing size up.



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

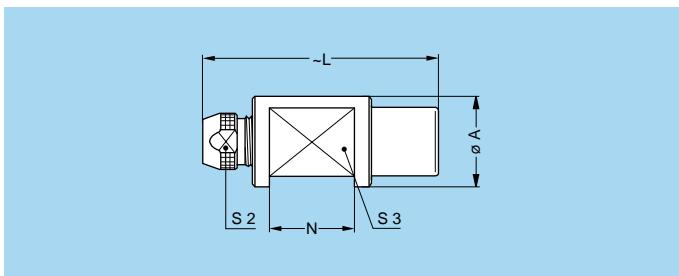
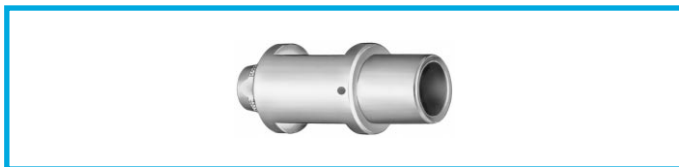
Reference		Dimensions (mm)		
Model	Series	A	L	S2
PCA	00	6.5	25.0	6
PCA	0S	8.9	33.5	7
PCA	1S	11.9	40.5	9
PCA	2S	14.8	50.0	12
PCA	3S	17.8	59.0	14
PCA	4S	24.8	75.0	20

Note: the bend relief must be ordered separately.



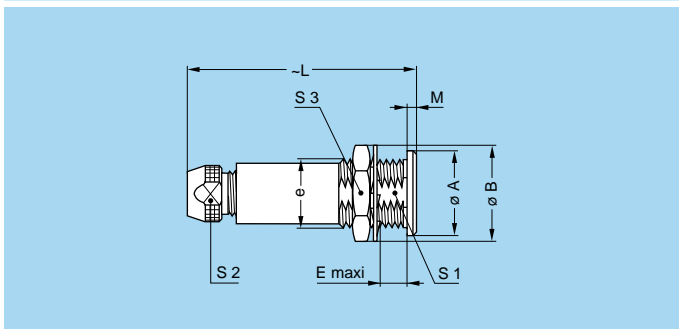
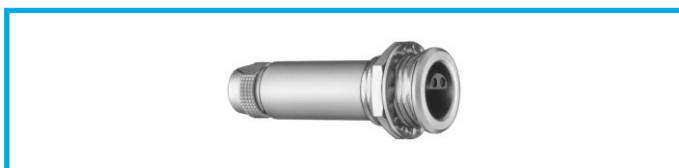
PCP Free socket, cable collet and inner anti-rotating device

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



PZP Free socket for remote handling with cable collet and inner anti-rotating device

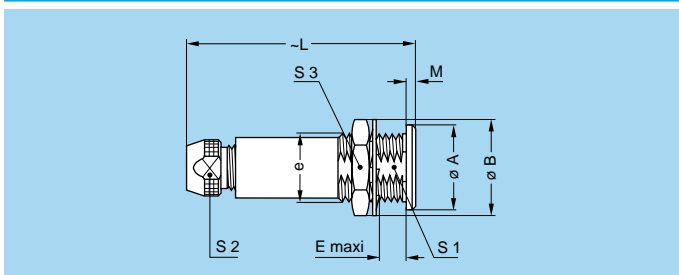
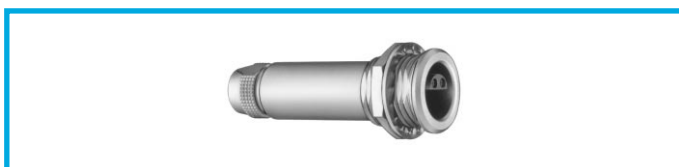
Reference		Dimensions (mm)				
Model	Series	A	L	N	S2	S3
PZP	1S	16	40.5	15	8.5	12
PZP	2S	24	50.0	21	11.0	18
PZP	3S	24	59.0	24	14.0	18



PSA Fixed socket, nut fixing, cable collet

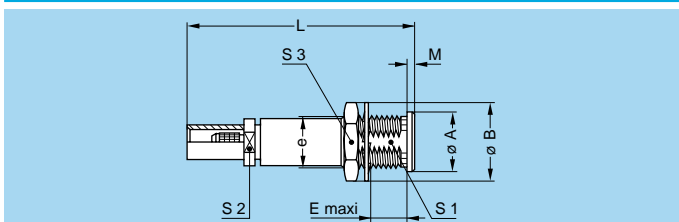
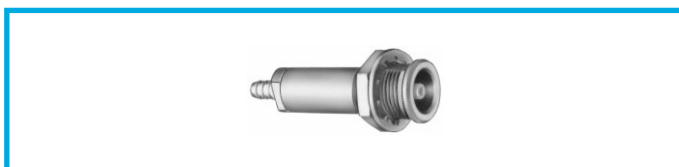
Reference		Dimensions (mm)								
Model	Series	A	B	e	E	L	M	S1	S2	S3
PSA	00	8	10.3	M7x0.5	5.5	25.0	1.0	6.3	4.5	9
PSA	0S	10	12.5	M9x0.6	7.0	33.5	1.2	8.2	6.5	11
PSA	1S	14	16.0	M12x1.0	7.5	40.5	1.5	10.5	8.5	14
PSA	2S	18	19.5	M15x1.0	8.5	50.0	1.8	13.5	11.0	17
PSA	3S	22	25.2	M18x1.0	11.5	59.0	2.0	16.5	14.0	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	–
PSA	6S	54	54.0	M48x1.5	16.0	102.0	3.5	45.5	38.0	–

Note: the 5S series is delivered with a tapered washer and a round nut. The 6S series is delivered without a locking washer and with 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

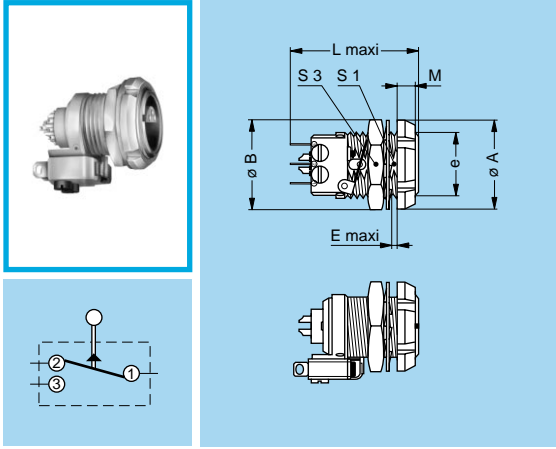


PSS Free socket, nut fixing for cable crimping

Reference		Dimensions (mm)								
Model	Series	A	B	e	E	L	M	S1	S2	S3
PSS	00	8	10.3	M7x0.5	5.5	30	1	6.3	5.5	9

Models with microswitch

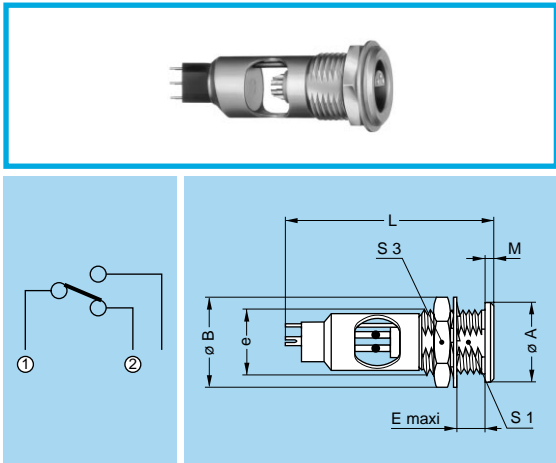
Some sockets are available fitted with a microswitch. The microswitch is independent from the electrical contacts of the socket. The introduction of the plug into the socket activates the microswitch (the drawings below are of corresponds to the sockets without the plug).



EMD Fixed socket with two nuts and microswitch (back panel mounting)

Reference		Dimensions (mm)							
Model	Series	A	B	e	E	L	M	S1	S3
EMD	2S	20	19.5	M15x1.0	2.2	26.7	3.5	13.5	17

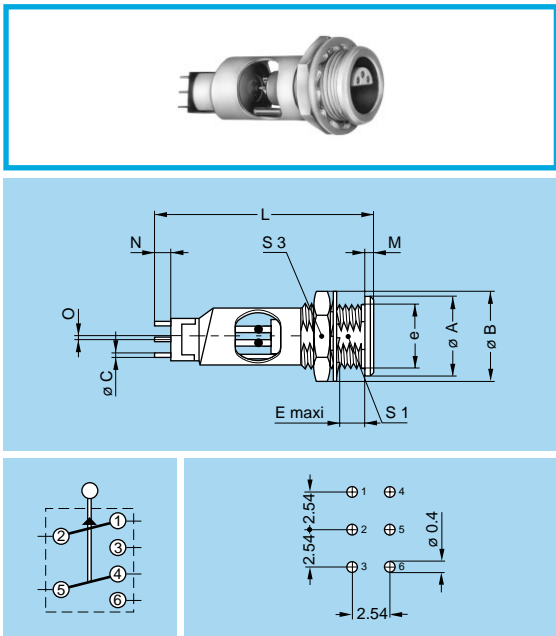
Note: only exists in 10-contact version (type 310).
For the microswitch: maximum operating voltage: 250Veff/Vdc
rated current: 7A/0.25A



ERM Fixed socket, nut fixing with microswitch

Reference		Dimensions (mm)							
Model	Series	A	B	e	E	L	M	S1	S3
ERM	1S	14	16	M12x1.0	7.5	38	1.5	10.5	14

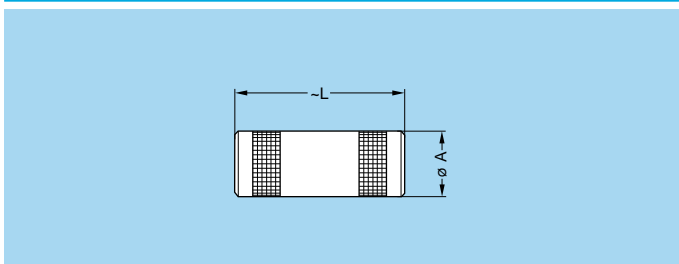
Note: only exists in 2 or 5-contact versions (type 302, 305).
For the microswitch: maximum operating voltage: 270Veff/Vdc
rated current: 8.5A/0.5A



ERZ Fixed socket, nut fixing with double microswitch and print contacts

Reference		Dimensions (mm)										
Model	Series	A	B	C	e	E	L	M	N	O	S1	S3
ERZ	1S	14	16	0.4	M12x1.0	7.5	39	1.5	2.7	0.9	10.5	14

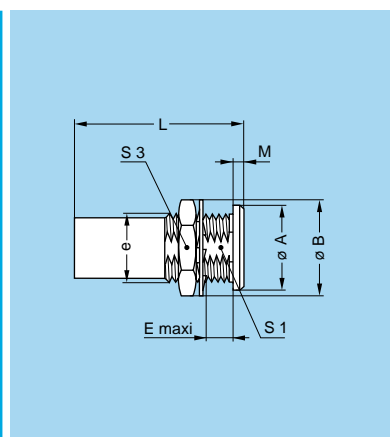
Note: only exists in 3 or 6-contact versions (type 303, 306).
For the microswitch: maximum operating voltage: 28 Veff
rated current: 0.1 A



RMA Free coupler

Reference		Dim. (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 the available plug and contact configurations and in order to ensure correct contact alignment.

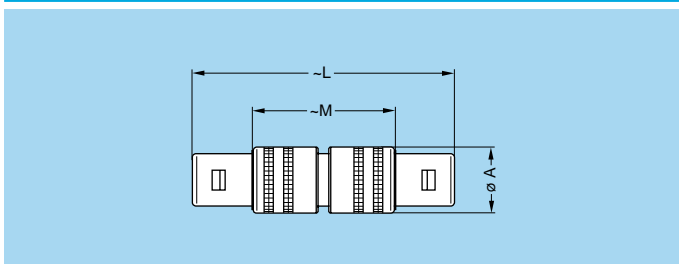
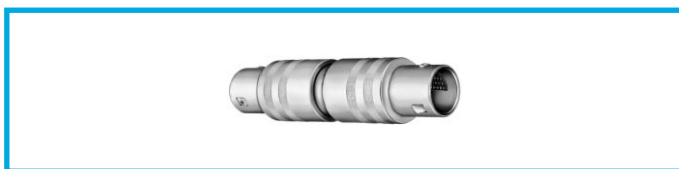


RAD Fixed coupler, nut fixing

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	–	–

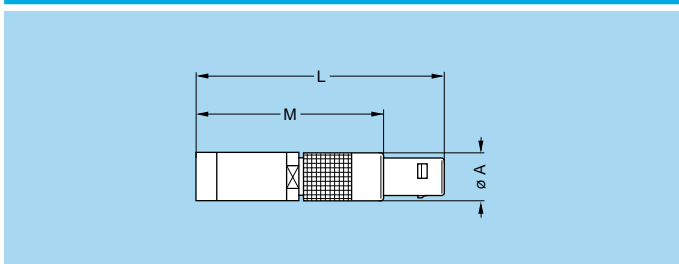
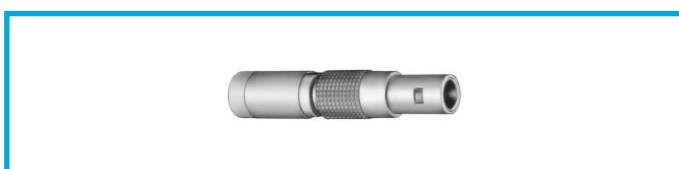
Note: the 5S series is delivered with a tapered washer and a round nut.

Note: see the available plug and contact configurations and in order to ensure correct contact alignment.



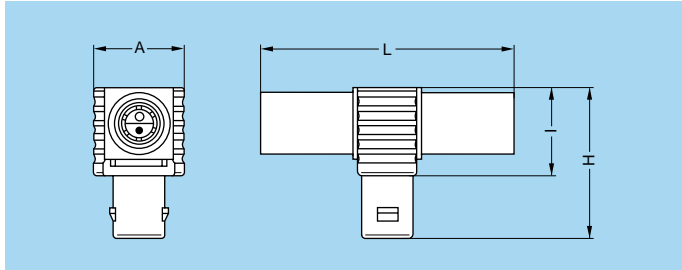
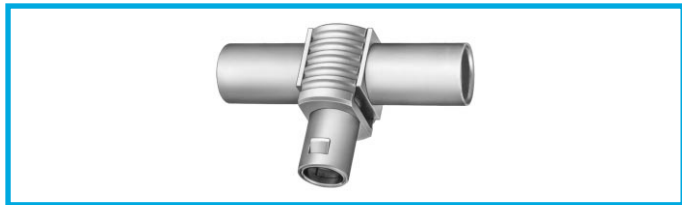
FEF Straight coupler with two plugs and front seal

Reference		Dimensions (mm)		
Model	Series	A	L	M
FEF	5S	39	130	80



FRT Straight plug with resistor

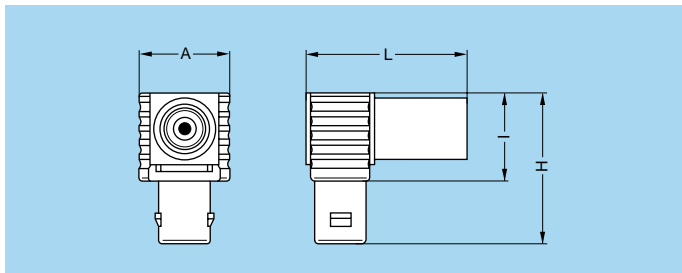
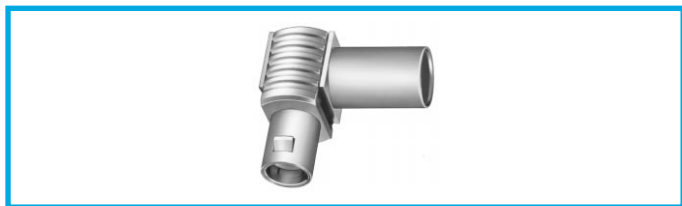
Reference		Dimensions (mm)			Resistor
Model	Series	A	L	M	
FRT	00	6.4	33	25	50 Ω 1/8 W



FTA T-plug with two in line sockets

Reference		Dimensions (mm)			
Model	Series	A	H	I	L
FTA	00	9	17.5	9.5	30
FTA	0S	13	23.0	13.0	38
FTA	1S	16	26.5	16.5	45
FTA	3S	21	38.5	23.5	64

Note: multiple version available only with 2 contacts (type 302).



FTR Elbow (90°) plug with socket

Reference		Dimensions (mm)			
Model	Series	A	H	I	L
FTR	00	9	17.5	9.5	18.5
FTR	3S	21	38.5	23.5	41.5
FTR	4S	28	49.0	31.0	54.0

Note: available only in unipole version.

Plastic housing models

FFA, FFP, FFL and ERN plug and socket models are also available with the outer shell and the collet nut made from various insulating materials.

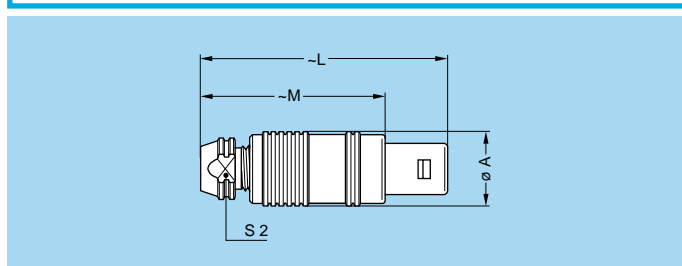
These connectors are particularly recommended for all applications requiring maximum electrical insulation when mated, such as medical applications. The design, including a latch sleeve and a metal earthing crown, guarantees EMC screening efficiency to meet most requirements.

Technical Characteristics

Mechanical and Climatical

Characteristics	Value				Standard
	PEEK	POM	PSU	PPSU	
Colour	natural (beige)	black	white or grey	cream	–
Endurance	> 5000 cycles	> 5000 cycles	> 5000 cycles	> 5000 cycles	IEC 60512-5 test 9a
Humidity	up to 95% at 60° C				–
Temperature range	-50° C/+250° C	-50° C/+115° C	-50° C/+150° C	-50° C/+180° C	–
Sterilization resistance ¹⁾	> 200 cycles	none	~20 cycles	> 100 cycles	IEC 60601-1 § 44.7
Resistance to organic solvents	very good	very good	limited	good	–

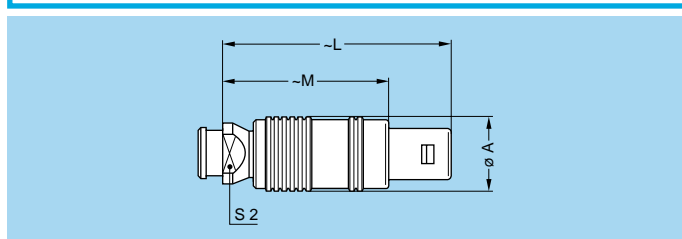
Note:
¹⁾ Steam sterilization



FFA Straight plug, cable collet, PEEK or POM outer shell

FFP Straight plug, cable collet, PEEK or POM outer shell and inner anti-rotating device

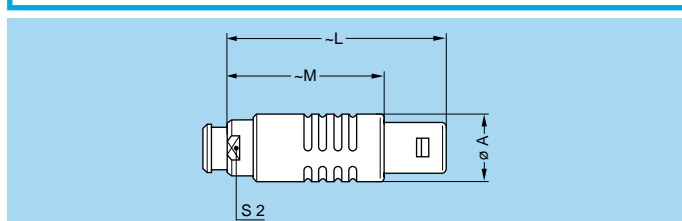
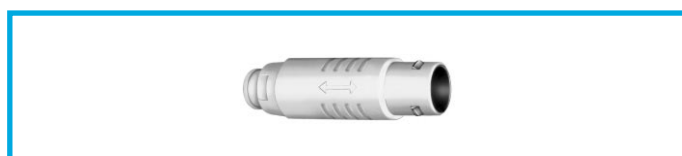
Reference		Dimensions (mm)			
Model	Series	A	L	M	S2
FFA	00	7.0	33.5	25.5	6.0
FFP	0S	9.5	34.5	24.5	8.0
FFP	1S	12.0	42.5	31.5	10.0
FFP	2S	15.0	52.0	40.0	12.0
FFP	3S	18.0	61.0	46.0	14.0



FFP Straight plug, cable collet, PEEK or POM outer shell, inner anti-rotating device and nut for fitting a bend relief

Reference		Dimensions (mm)			
Model	Series	A	L	M	S2
FFP	0S	9.5	33.5	23.5	7.0
FFP	1S	12.0	41.5	30.5	10.0
FFP	2S	15.0	51.0	39.0	12.0
FFP	3S	18.0	61.0	46.0	14.0

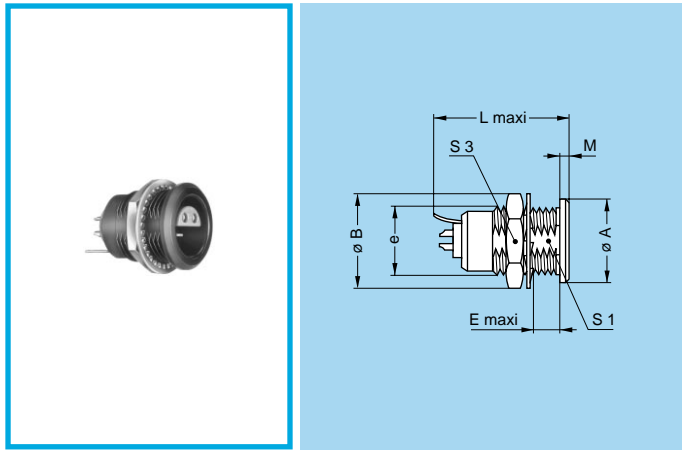
Note: the bend relief must be ordered separately.



FFL Straight plug, cable collet, with PSU and PPSU outer shell, inner anti-rotating device and nut for fitting a bend relief

Reference		Dimensions (mm)			
Model	Series	A	L	M	S2
FFL	2S	16.5	51.5	39.5	13

Note: the bend relief must be ordered separately. This model is fitted with a «D or M» type collet system. It is also adapted for crimp contacts.



ERN Fixed socket, nut fixing, with earthing tag, PEEK or POM outer shell

Reference		Dimensions (mm)								
Model	Series	A	B	e	E	L	L ¹⁾	M	S1	S3
ERN	00	9	10.3	M7x0.5	5.5	–	15.1	1.0	6.3	9
ERN	0S	11	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	2.0	13.5	17
ERN	3S	22	25.2	M18x1.0	11.5	29.8	30.0	2.0	16.5	22

Note: ¹⁾ unipole model

Watertight or vacuumtight models

HGP, HGW, EWB, HCP, SWH socket or coupler models allow the device on which they are fitted to reach a protection index of IP68 as per IEC 60529.

They are fully compatible with plugs of the same series and are widely used for portable radios, military, laboratory equipment, aviation, etc.

These models are identified by a letter «P» at the end of the reference.

Most of these models are also available in a vacuumtight version. Such models are identified by an additional letter «V» at the end of the part number (certificate on request).

Epoxy resin is used to seal these models.

Please refer to the chapter on selecting watertight connectors.

Part number example:

Watertight socket: HGP.1S.304.CLLP

Vacuumtight socket: HGP.1S.304.CLLPV

Technical Characteristics

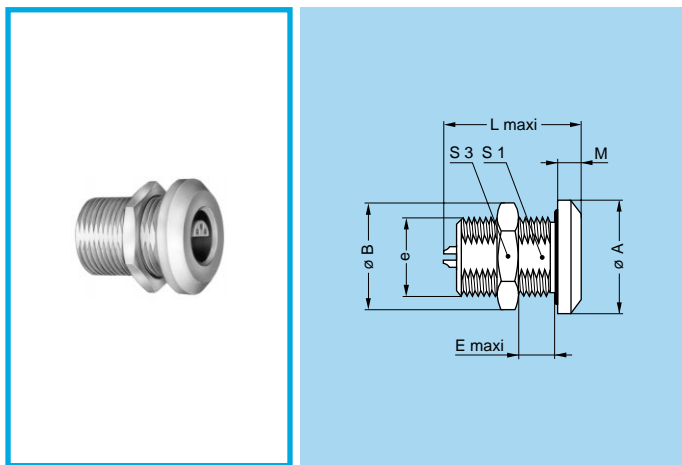
Mechanical and Climatical

Characteristics	Value	Standard
Endurance	> 5000 cycles	IEC 60512-5 test 9a
Humidity	up to 95% at 60° C	
Temperature range	- 20° C/+80° C	
Salt spray corrosion test	> 144h	IEC 60512-6 test 11f
Protection index (mated)	IP 68	IEC 60529
Climatical category	20/80/21	IEC 60068-1
Leakage rate (He) ¹⁾	< 10 ⁻⁶ mbar.l.s ⁻¹	IEC 60512-7 test 14b
Maximum operating pressure ²⁾	0S	60 bars
	1S	60 bars
	2S	40 bars
	3S	30 bars
	4S	15 bars
	5S	5 bars
	6S	5 bars
		IEC 60512-7 test 14d

Note:

¹⁾ only for vacuumtight models.

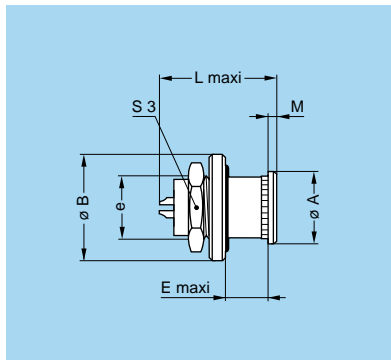
²⁾ this value corresponds to the maximum allowed pressure difference for the assembled socket.



HGP Fixed socket, nut fixing, watertight or vacuumtight

Reference		Dimensions (mm)								
Model	Series	A	B	e	E	L	L ¹⁾	M	S1	S3
HGP	0S	18	16.0	M12x1.0	11.5	22.0	20.5	4.0	10.5	14
HGP	1S	20	19.5	M14x1.0	15.5	25.5	25.5	4.0	12.5	17
HGP	2S	20	21.8	M16x1.0	17.0	28.0	28.0	4.0	14.5	19
HGP	3S	28	27.5	M20x1.0	19.0	35.5	34.5	6.0	18.5	24
HGP	4S	34	32.0	M25x1.0	22.5	41.0	42.0	6.5	23.5	30
HGP	5S	45	40.0	M35x1.0	28.0	54.5	78.5	7.5	33.5	–
HGP	6S	58	54.0	M48x1.5	20.0	57.0	–	6.0	45.5	–

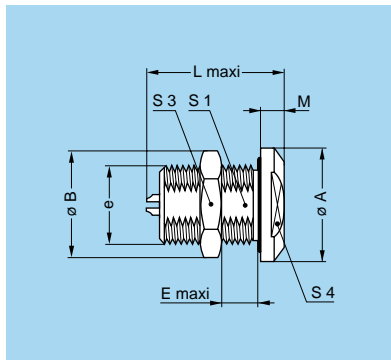
Note: the 5S and 6S series are delivered with a round nut.



HGW Fixed socket, nut fixing, with back washer, watertight or vacuumtight

Reference		Dimensions (mm)						
Model	Series	A	B	e	E	L	M	S3
HGW	0S	10	15	M9x0.6	2	17.5	1.2	11
HGW	1S	14	18	M12x1.0	4	20.2	1.5	14

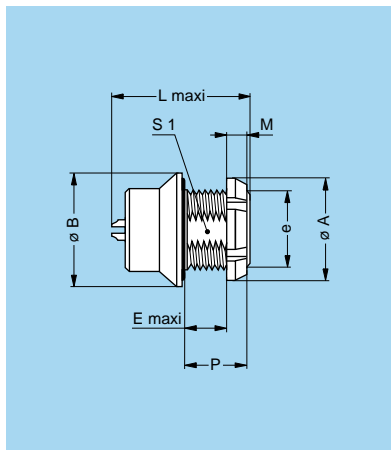
Note: vacuumtight version is only available in the 0S series.



EWB Fixed socket, nut fixing, with two flats on the flange, watertight or vacuumtight

Reference		Dimensions (mm)									
Model	Series	A	B	e	E	L	L ¹⁾	M	S1	S3	S4
EWB	0S	18	16.0	M12x1.0	11.5	22.0	—	4.0	10.5	14	14
EWB	1S	20	19.5	M14x1.0	17.0	25.5	25.5	4.0	12.5	17	16
EWB	2S	20	21.8	M16x1.0	19.0	28.0	26.5	4.0	14.5	19	16
EWB	4S	34	32.0	M25x1.0	22.5	41.0	—	6.5	23.5	30	27

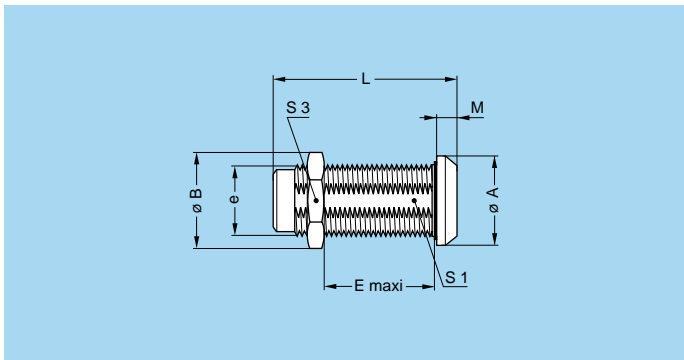
Note: ¹⁾ unipole model



HCP Fixed socket, nut fixing, watertight or vacuumtight (back panel mounting)

Reference		Dimensions (mm)							
Model	Series	A	B	e	E	L	M	P	S1
HCP	1S	18	20	M14x1.0	8.6	25.5	3.5	12.0	—
HCP	2S	20	20	M16x1.0	12.5	29.0	3.5	16.5	14.5
HCP	4S	27	34	M25x1.0	15.5	41.0	4.5	20.0	23.5

Note: the 4S series is delivered with a conical 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	—
SWH	6S	58	54.0	M48x1.50	55	81	6.0	45.5	—

Note: see the available plug and contact configurations and in order to ensure correct contact alignment. The 5S and 6S series are delivered with a round nut.