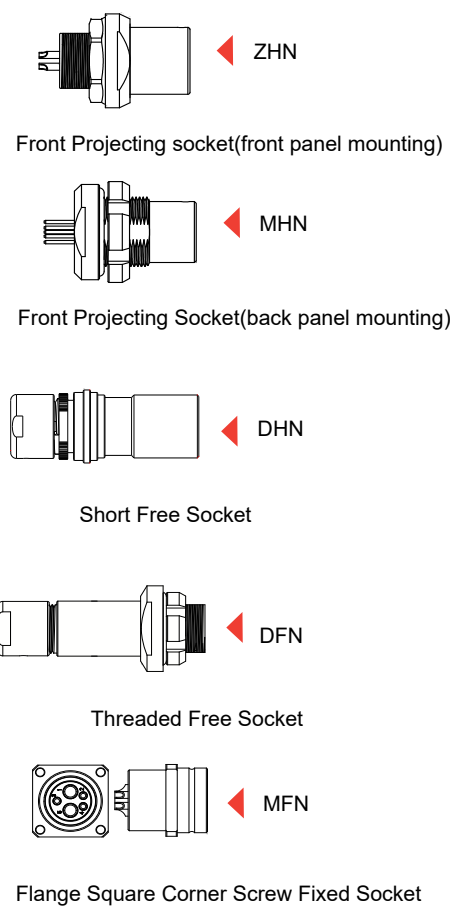
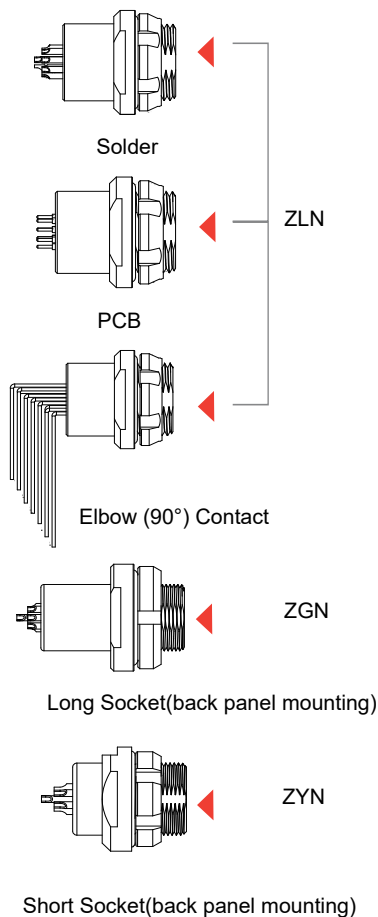
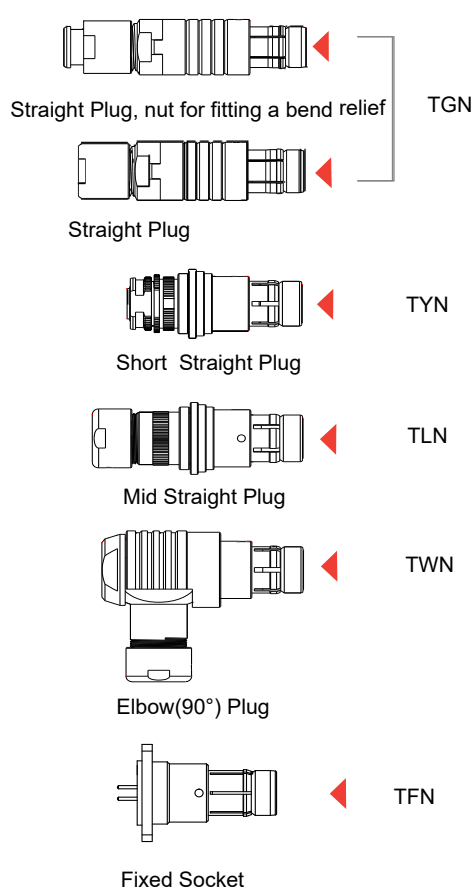


**F SERIES (Outdoor, Multipole
Mechanical Coding)**

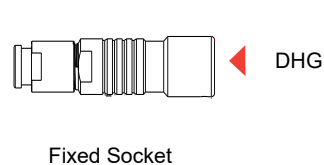
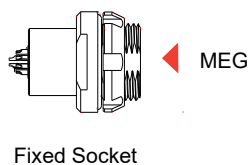
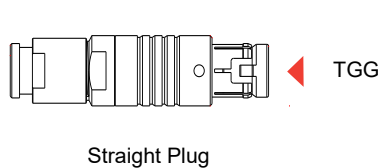
**C SERIES (Outdoor, Multipole
Mechanical Coding)**



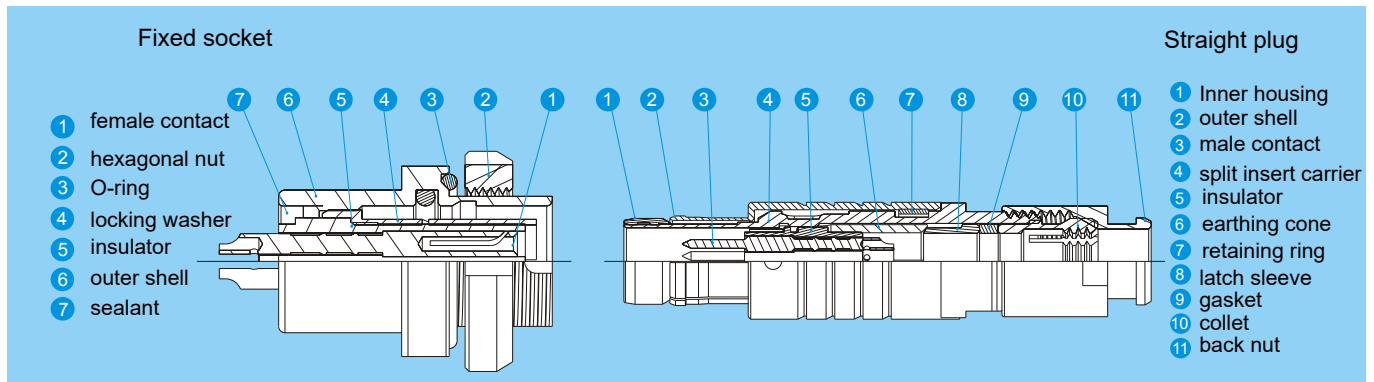
F SERIES Metal housing models (page 59)



C SERIES Metal housing models (page 68)



Part Section Showing Internal Components

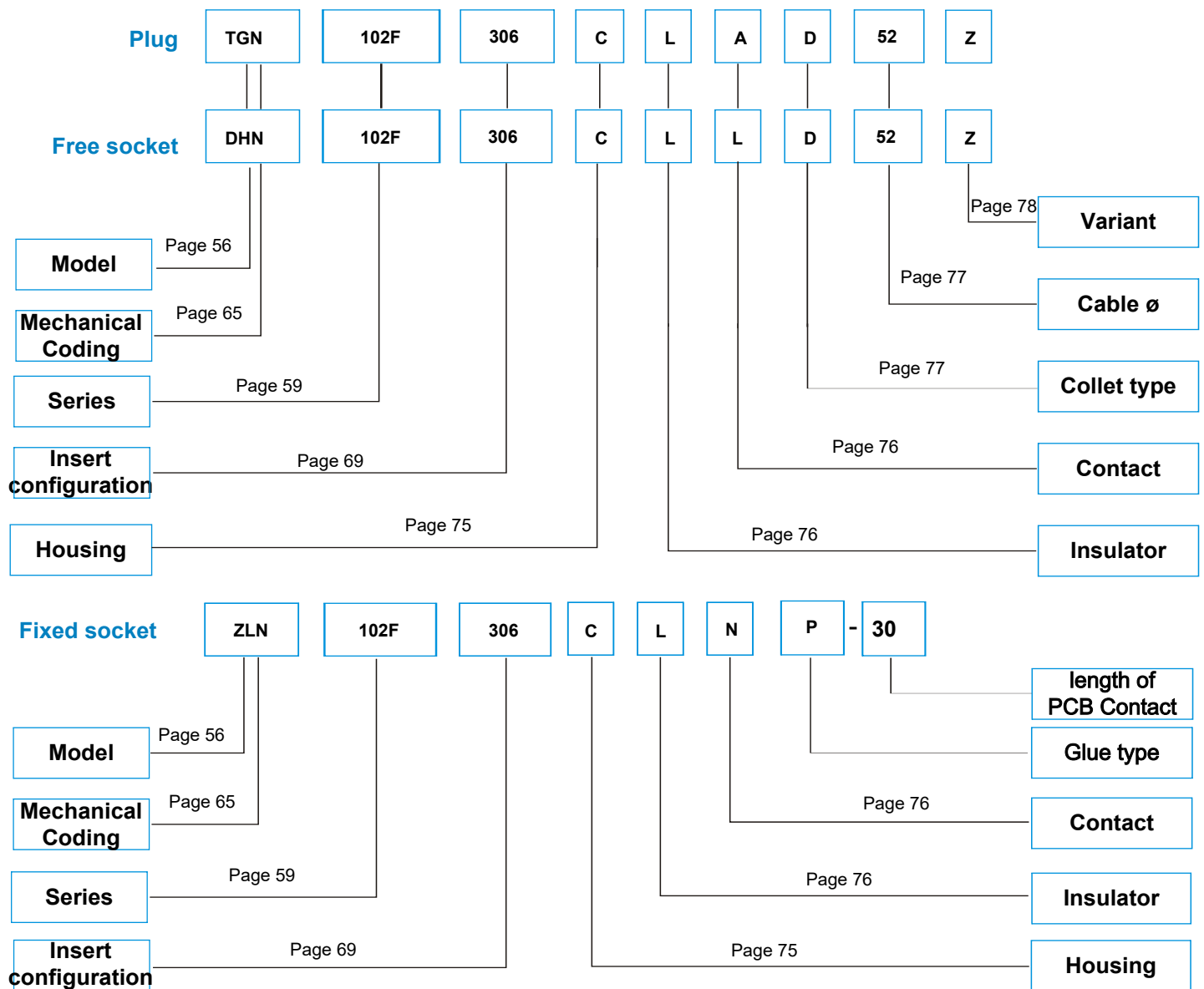


F series connectors have main features as follows:

- security of the Push-Pull self-latching system
- multipole types 1 to 40 contacts
- Easy mating, can be blind-mated (guiding mechanism ensures precise alignment)
- Increased equipment life span (guiding mechanism optimally protects the contacts)
- Robust and shock resistant (designs ideal for equipment used in the field)
- watertight connection (IP 68/IP 66), waterproof and sandproof;
- solder, print (straight or elbow) contacts
- high packing density for space savings
- 360° screening for full EMC shielding.

F Series Connectors Technical Characteristics :

- Endurance: > 3000 cycles
- Humidity: up to 95% at 40° C
- Temperature range: - 55° C, + 145° C
- Vibration: frequency 10-20000HZ, acceleration 147m/s², ≤1um instantaneous break
- Impact: acceleration 490m/s², ≤1um instantaneous break
- Protection index (mated): IP 68

F Series Part Numbering System:

Part number example
Straight plug with cable collet:

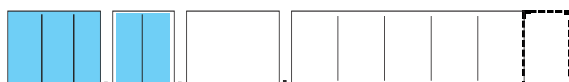
TGN.102F.306.CLAD52 = straight plug, mechanical coding(N), 102F series, multipole type with 6 contacts, outer shell in chrome-plated brass, PPS insulator, solder male contacts, D type collet for a 5.2 mm diameter cable.

Free socket:

DHN.102F.306.CLAD52Z = free socket, mechanical coding(N), 102F series, multipole type with 6 contacts, outer shell in chrome-plated brass, PPS insulator, solder male contacts, D type collet for a 5.2 mm diameter cable and nut for fitting a bend relief.

Fixed socket:

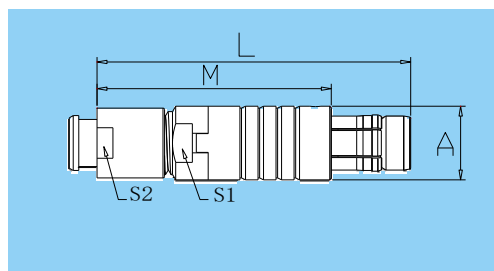
ZLN.102F.306.CLNP-30 = fixed socket, mechanical coding(N), 102F series, multipole type with 6 contacts, outer shell in chrome-plated brass, PPS insulator, solder female contacts, Epoxy resin (P) PCB contacts length is 30mm



Metal Housing Models



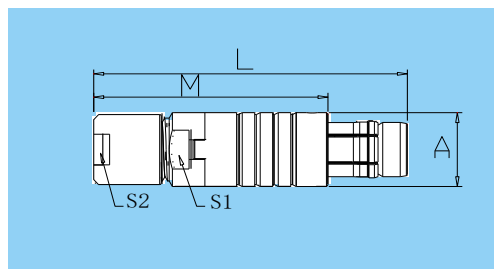
TGN Straight long plug, cable collet and nut for fitting a bend relief, with arc-shape metal guides, collet style clamp system for cable.



Reference		Dimensions (mm)				
Series	Model	A	L	M	S	S1
102F	TGN	9	36	26	7	7
103F	TGN	12	46	35	10	10
1031F	TGN	13	48	38	12	11
104F	TGN	15	50	38	12	13
105F	TGN	18	62	47	15	16



TGN Straight long plug, cable collet, with arc-shape metal guides, collet style clamp system for cable. (without bend relief)

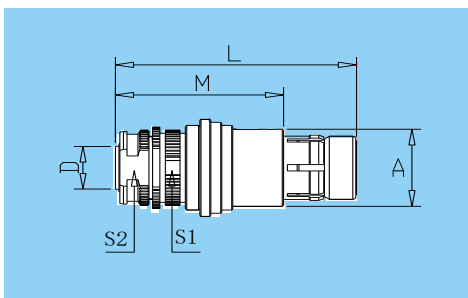


Reference		Dimensions (mm)				
Series	Model	A	L	M	S	S1
102F	TGN	9	36	26	7	7
103F	TGN	12	46	35	10	10
1031F	TGN	13	48	38	12	11
104F	TGN	15	50	38	12	13
105F	TGN	18	62	47	15	16



TYN Straight short plug, with arc-shape metal guides, back nut with threaded.

Cable Assembly: Overmolding Options



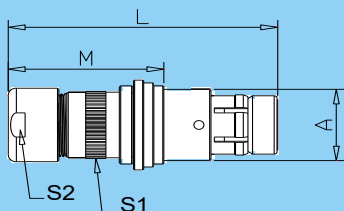
Reference		Dimensions (mm)					
Series	Model	A	L	M	S1	S1	D(max)
102F	TYN	9	30	20	8	7	3.8
103F	TYN	12	33	22	11	10	6
1031F	TYN	12.4	33	23	11	10	6.2
104F	TYN	15	38	26	13	12	8
105F	TYN	18	44	29	16	15	10



F series



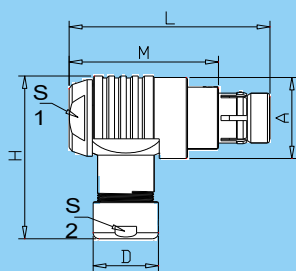
TLN Straight short plug, with arc-shape metal guides, back nut with threaded.



Reference		Dimensions (mm)				
Series	Model	A	L	M	S1	S1
102F	TLN	9	33	20	8	7
103F	TLN	12	37	22	11	10
1031F	TLN	12.4	40	23	11	10
104F	TLN	15	46	26	13	12
105F	TLN	18	53	29	16.5	16



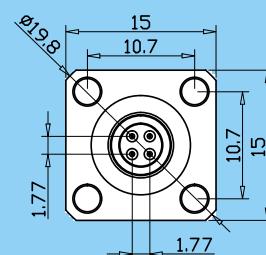
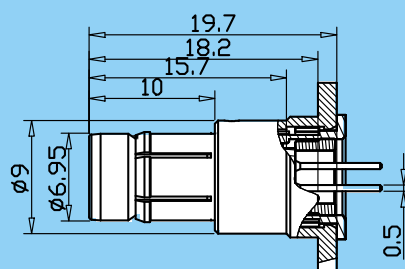
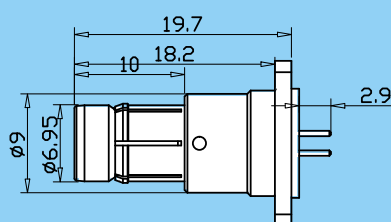
TWN Elbow(90°) plug, with arc-shape metal guides, collet style clamp system for cable.

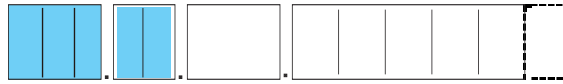


Reference		Dimensions (mm)					
Series	Model	A	L	M	H	S1	S1
102F	TWN	11.2	33	23	25	8	7
103F	TWN	15	38	27	31	11	10
1031F	TWN	17	39	29	33	12	12
104F	TWN	19	45	32	37	14	12
105F	TWN	23	53	38	45	17	15

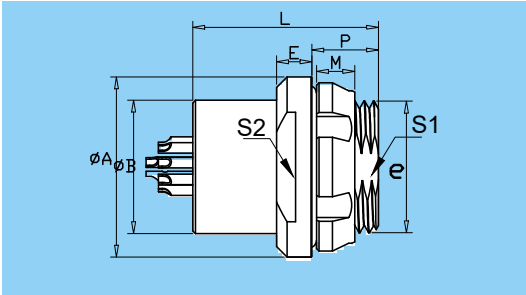


TFN Fixed Socket with square flange,




F series

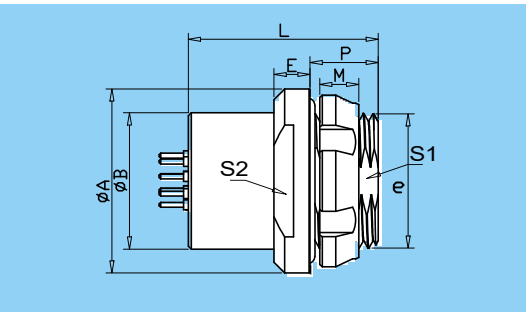

ZLN Hermetic Socket, back panel mounting, with arc-shape metal guides,



Reference		Dimensions (mm)								
Series	Model	A	B	e	L	E	M	P	S1	S2
102F	ZLN	13	9.0	M9x0.5	17	3.5	3	6.5	8.2	12
103F	ZLN	18	12	M14*1.0	21	4	4	8	12	15
1031F	ZLN	19	14	M14*1.0	19.5	4	4	7	12	15
104F	ZLN	22	16	M16*1.0	21.5	3.7	3.5	8	14.5	18
105F	ZLN	27	21	M20x1.0	22.5	4.5	5	10	18	22



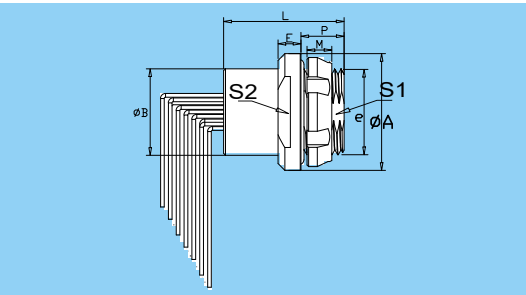
ZLN Hermetic Socket, back panel mounting, with arc-shape metal guides, (print contacts)



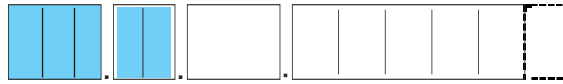
Reference		Dimensions (mm)								
Series	Model	A	B	e	L	E	M	P	S1	S2
102F	ZLN	13	9.0	M9x0.5	17	3.5	3	6.5	8.2	12
103F	ZLN	18	12	M14*1.0	21	4	4	8	12	15
1031F	ZLN	19	14	M14*1.0	19.5	4	4	7	12	15
104F	ZLN	22	16	M16*1.0	21.5	3.7	3.5	8	14.5	18
105F	ZLN	27	21	M20x1.0	22.5	4.5	5	10	18	22



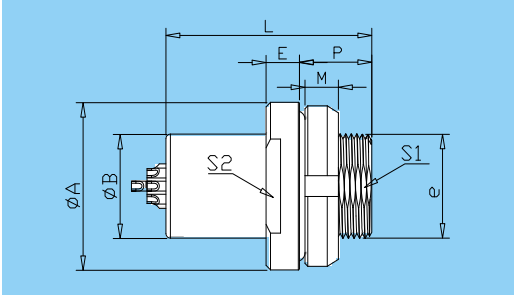
ZLN Hermetic Socket, back panel mounting, with arc-shape metal guides, (Elbow (90°) print Contacts)



Reference		Dimensions (mm)								
Series	Model	A	B	e	L	E	M	P	S1	S2
102F	ZLN	13	9.0	M9x0.5	17	3.5	3	6.5	8.2	12
103F	ZLN	18	12	M14*1.0	21	4	4	8	12	15
1031F	ZLN	19	14	M14*1.0	19.5	4	4	7	12	15
104F	ZLN	22	16	M16*1.0	21.5	3.7	3.5	8	14.5	18
105F	ZLN	27	21	M20x1.0	22.5	4.5	5	10	18	22



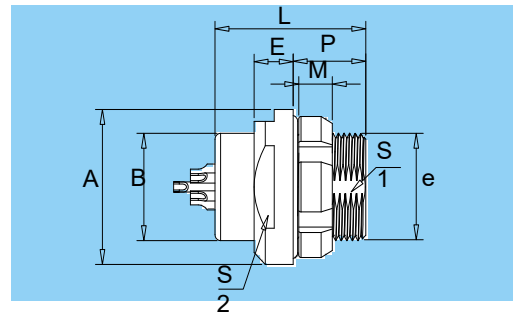
ZGN Hermetic Socket, back panel mounting, with arc-shape metal guides.



Reference		Dimensions (mm)								
Series	Model	A	B	e	L	E	M	P	S1	S2
102F	ZGN	14.5	9	M9x0.5	18.5	3	3	6.5	8.2	12
103F	ZGN	18	14	M14*1.0	22	3	4	9	12.5	15



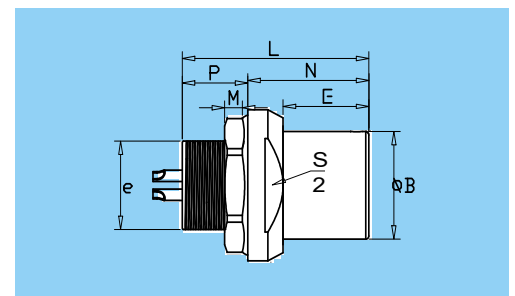
ZYN Hermetic Short Socket, back panel mounting, with arc-shape metal guides. waterproof (IP68)



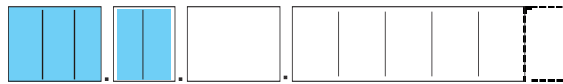
Reference		Dimensions (mm)								
Series	Model	A	B	e	E	L	M	P	S1	S2
102F	ZYN	13	9.0	M9x0.5	3.5	13.5	3.0	6.5	8.2	11
103F	ZYN	18	12	M14x1.0	4.0	17	4	6.5	12	15



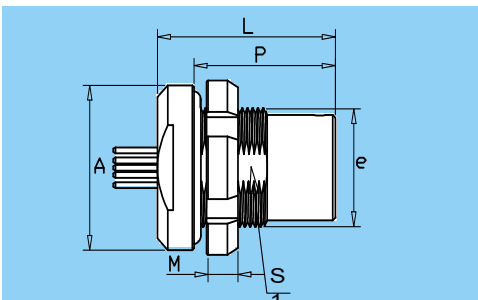
ZHN Front Projecting Socket, front panel mounting, with arc-shape metal guides. waterproof (IP68)



Reference		Dimensions (mm)								
Series	Model	A	B	e	L	E	M	P	S1	S2
102F	ZHN	14	10	M9x0.5	18.5	3.5	2.0	6.5	8.2	11
103F	ZHN	18	14	M14x1.0	21.0	3.5	2.5	6.5	12.5	15



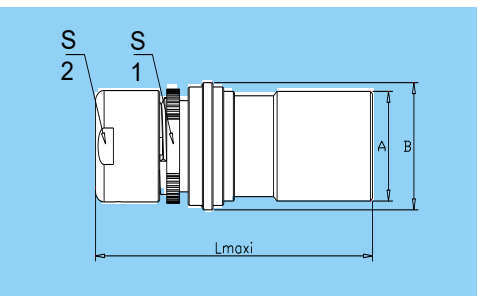
MHN Front Projecting Socket, back panel mounting, with arc-shape metal guides. waterproof (IP68)



Reference		Dimensions (mm)					
Series	Model	A	e	E	M	P	S1
102F	MHN	14	M10x0.5	3.5	3.0	13.5	9
103F	MHN	18	M14x1.0	2	4.0	19	12.5



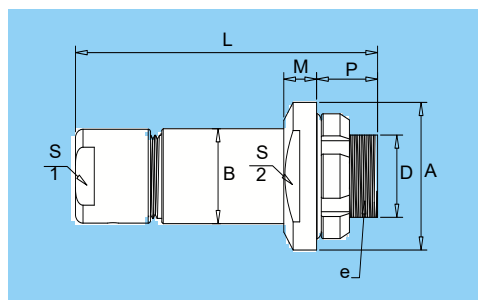
DHN Free Socket, with arc-shape metal guides, collet style clamp system for cable.



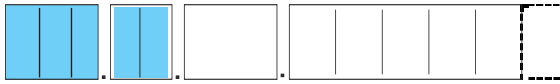
Reference		Dimensions (mm)				
Series	Model	A	B	L	S1	S2
102F	DHN	10	12	32	8	7
103F	DHN	12.5	14.5	39	11	12
1031F	DHN	13.5	15.5	40	11.5	12
104F	DHN	16	18	45.5	14	14
105F	DHN	19	21	51	16.5	11



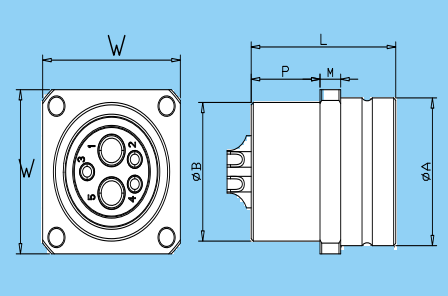
DFN Free Socket, with arc-shape metal guides, collet style clamp system for cable.



Reference		Dimensions (mm)								
Series	Model	A	B	e	E	L	M	D	S1	S2
102F	DFN	14	9.0	M9x0.5	3	32	3.5	11	7	7.5



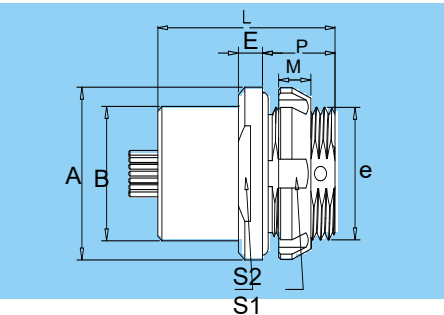
MFN Front Projecting Flange Square Corner Screw Socket, front panel mounting, with arc-shape metal guides. waterproof (IP68)



Reference		Dimensions (mm)					
Series	Model	A	B	M	P	L	W
103F	MFN	10.6	11.6	2.5	10	21	18
1031F	MFN	13	13	3.0	9.5	19.5	19
105F	MFN	18	17	3.0	10.0	21	20



GBN Hermetic Socket, back panel mounting, with arc-shape metal guides,



Reference		Dimensions (mm)								
Series	Model	A	B	e	L	E	M	P	S1	S2
102F	GBN	14	9	M9x0.5	21	3.5	3	6.5	8.0	11
103F	GBN	18	14	M14*1.0	22	3	4	9.0	12	15
1031F	GBN	19	14	M14*1.0	19.5	4	4	7	12	15
104F	GBN	21	14.5	M16*1.0	23	4	3.5	8	14.4	18
105F	GBN	27	21	M20x1.0	26.5	4.5	5	10	18	22

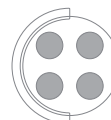


For Easy Connect / Disconnect Operations

Our contact blocks are engineered with arc-shape metal guides, which ensure precise alignment of connectors during the mating process.

This guiding mechanism provides:

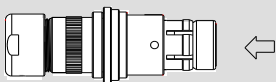
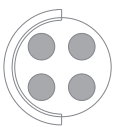
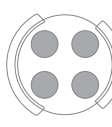
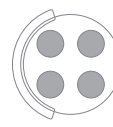
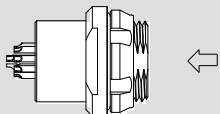
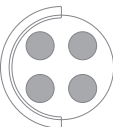
- Increased safety and user friendliness (by preventing misconnection).
- Easy mating cycles, can be blind-mated.
- Increased equipment life span by optimally (protecting the contacts).



Keying Codes Options

All Multipole body styles are mechanically coded.

Code 1 is the standard, but other codes can be requested (See table below).

Plug/Socket			
	single metal guides	double metal guides 1	double metal guides 2
			
			
Reference	N	A	B