

F SERIES

(OUTDOOR HALF-SHELL)



MAIN FEATURES:

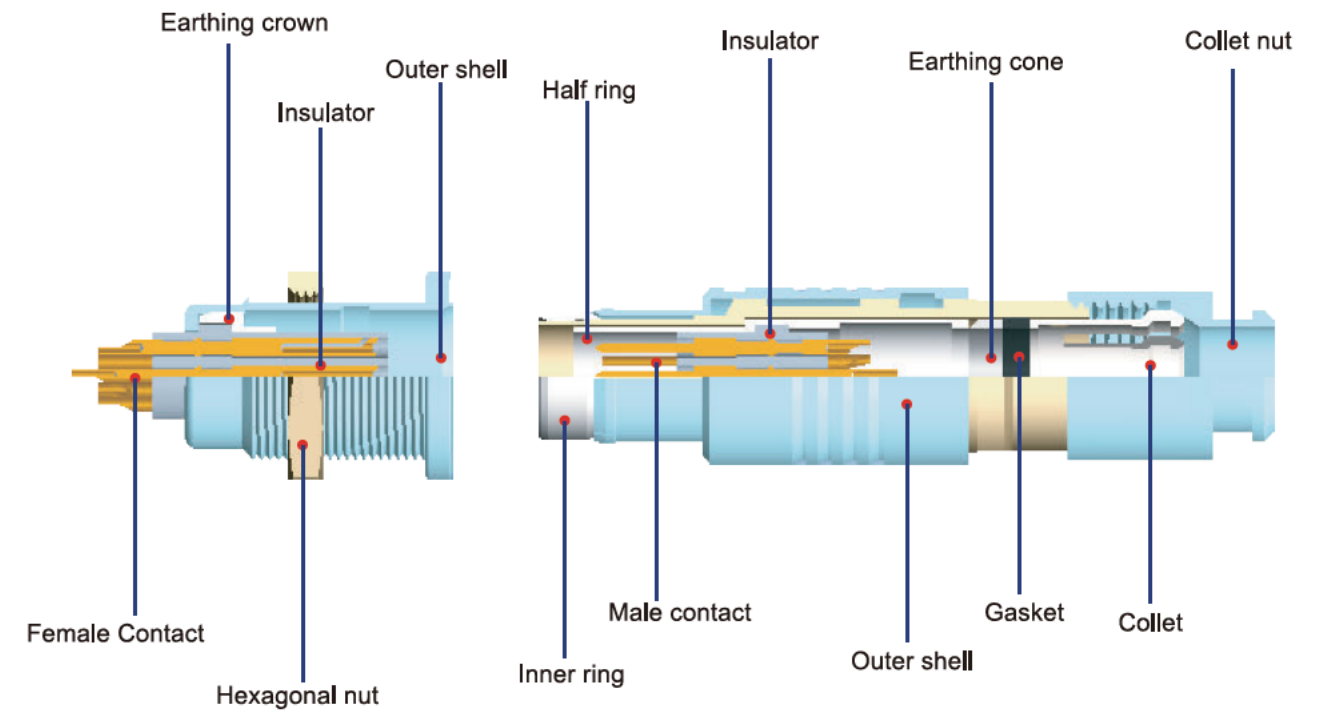
1. Security of the push –pull self-latching system
2. Multipole types 2 to 19 contacts
3. Solder or PCB contacts (straight or elbow)
4. High Packing density for space saving
5. Half-shell key to avoid cross mating
6. 360° screening for full EMC shielding
7. Vacuum-tight socket suitable for vacuum equipment

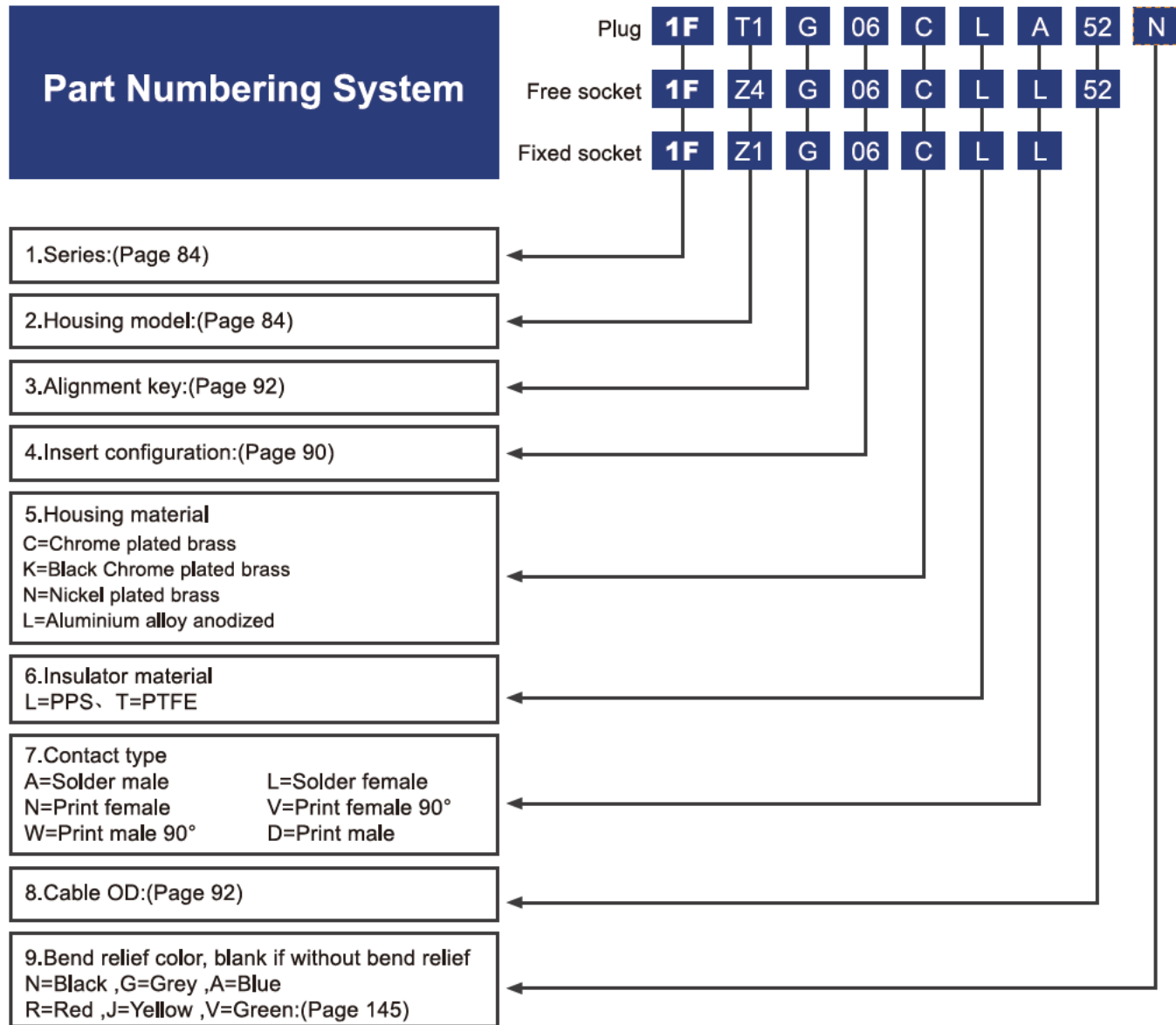
PART SECTION SHOWING INTERNAL COMPONENTS

F series

Fixed socket

Straight plug





PART NUMBER EXAMPLE:

Straight plug with cable collet:

0FT1G06CLA52N=0F series straight plug with single half-shell key(G) and cable collet, multipole type with 6 contacts, outer shell in chrome plated brass, PPS insulator, solder male contacts, collect for 5.0mm diameter cable with a black bend relief.

Free socket:

0FZ4G06CLL52=0F series free socket with single half-shell key(G) and cable collet, multipole type with 6 contacts, outer shell in chrome plated brass, PPS insulator, solder female contacts, collect for 5.0mm diameter cable.

Fixed socket:

0FZ13G06CLL=0F series fixed socket, nut fixing, with single half-shell key(G), Multipole type with 6 contacts, outer shell in chrome plated brass, PPS insulator, solder female contacts.

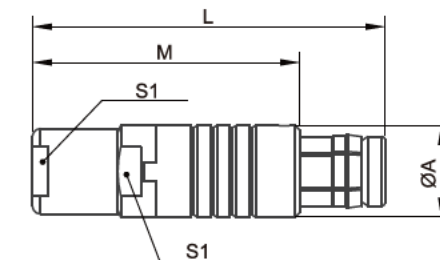
TECHNICAL CHARACTERISTICS

Characteristics	Parameter
Locking Type	push pull self-latching type
Working Temperature	-55°~+250°
Maximum Humidity	up to 95% at 60°/140°F
Shielding Efficiency	75dB(10MHz) 40dB(1GHz)
Resistance to Vibration	15g[10Hz~2000Hz]

Characteristics	Parameter
Salt spray corrosion test	96hr
Shock resistance	100g,6ms
Endurance	5000 cycles
Protection index(mated)	IP68

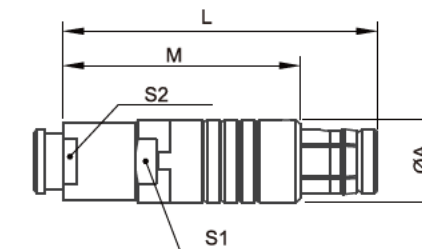
Housing Models

T1 PLUG STRAIGHT PLUG, WITH HAL-SHELL KEY (G OR A), CABLE COLLET



		A	L	M	S1	S2
0F	T1	9,5	38	28	8	8
1F	T1	12	46,6	35,6	9	9
2F	T1	15	50,3	38	13	13
3F	T1	18,7	58	43,4	16	17
4F	T1	28,6	94	68,8	25	25

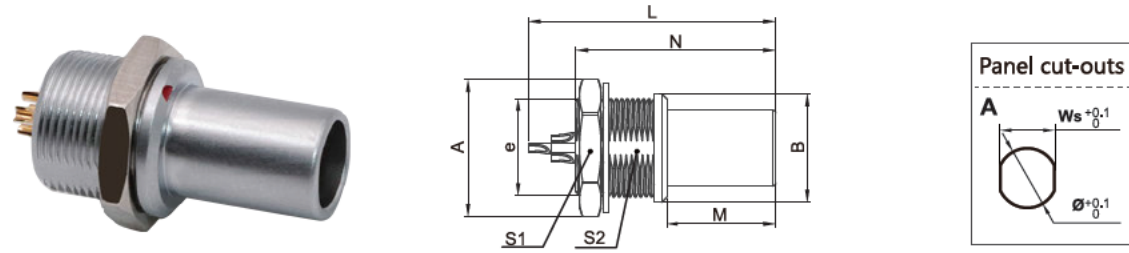
T1 PLUG STRAIGHT PLUG, WITH HAL-SHELL KEY (G OR A), CABLE COLLET AND NUT FOR FITTING A BEND RELIEF



Reference		Dimensions(mm)				
Series	Model	A	L	M	S1	S2
0F	T1	9,5	36	26	8	8
1F	T1	12	45	34	9	9
2F	T1	15	50	37,5	13	13
3F	T1	18,7	58	44,2	16	17

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T2 PLUG FIXED PLUG, HALF-SHELL KEY (G OR A), CABLE COLLET



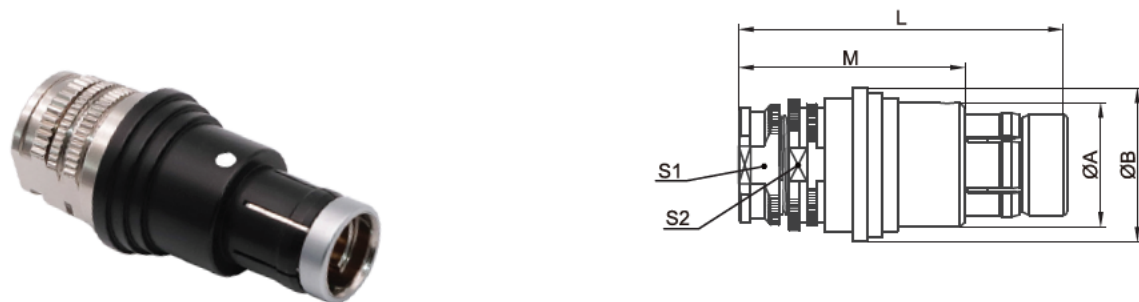
Reference		Dimensions(mm)							Panel cut-outs			
Series	Model	A	B	L	M	N	S1	S2	e	Ws	Ø	Type
0F	T2	12.6	10.0	21	10.0	18.4	11.0	8.2	M9*0.5	8.5	9.1	A
15F	T2	19.0	18.8	30	10	26	17.0	12.0	M14*1.0	12.0	14.1	A

T7 PLUG STRAIGHT PLUG, WITH HAL-SHELL KEY (G OR A), CABLE COLLET



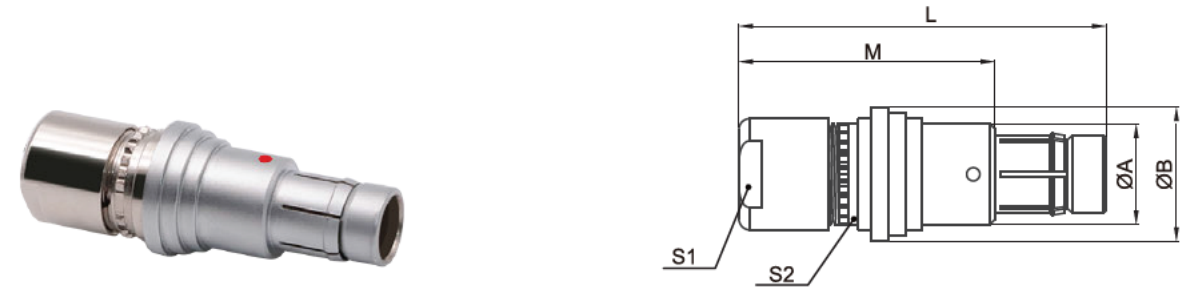
Reference		Dimensions(mm)					
Series	Model	A	B	L	M	S1	S2
0F	T7	9.4	11.4	32.5	22.5	8	7

T7 PLUG SHORT TYPE STRAIGHT PLUG, WITH HALF-SHELL KEY (G OR A), CABLE COLLET



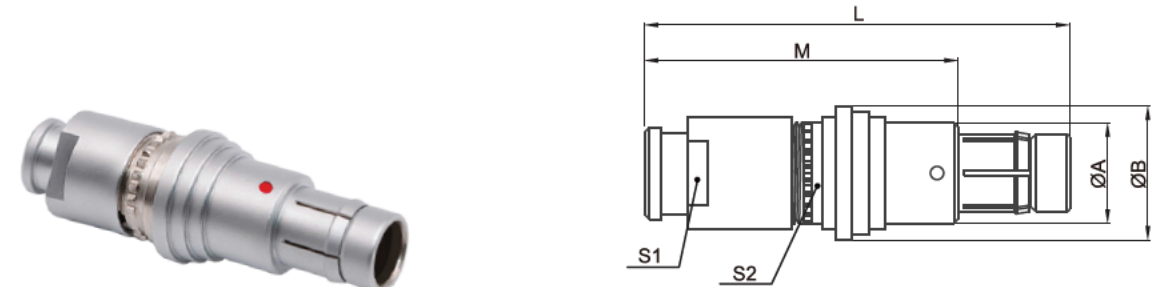
Reference		Dimensions(mm)					
Series	Model	L	A	M	B	S1	S2
1F	T7	32.8	11.8	22	15	10	11
15F	T7	33.2	12.5	23.2	15.5	10	11

TX PLUG SHORT TYPE STRAIGHT PLUG, WITH HALF-SHELL KEY (G OR A), CABLE COLLET



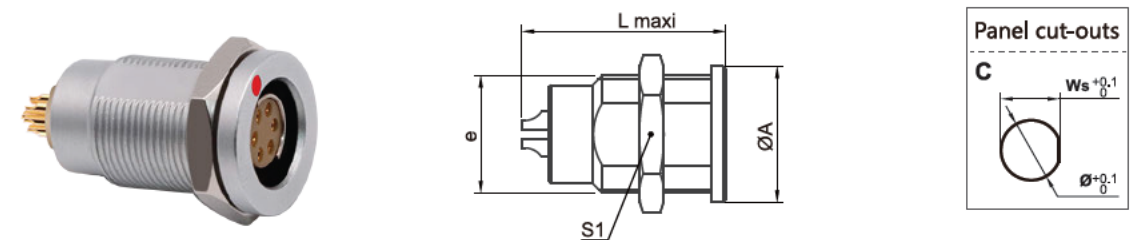
Reference		Dimensions(mm)					
Series	Model	A	B	M	L	S1	S2
0F	TX	9	12	23.5	33.5	8	9

TX PLUG SHORT TYPE STRAIGHT PLUG, WITH HAL-SHELL KEY (G OR A), CABLE COLLET NUT FOR FITTING A BEND RELIEF



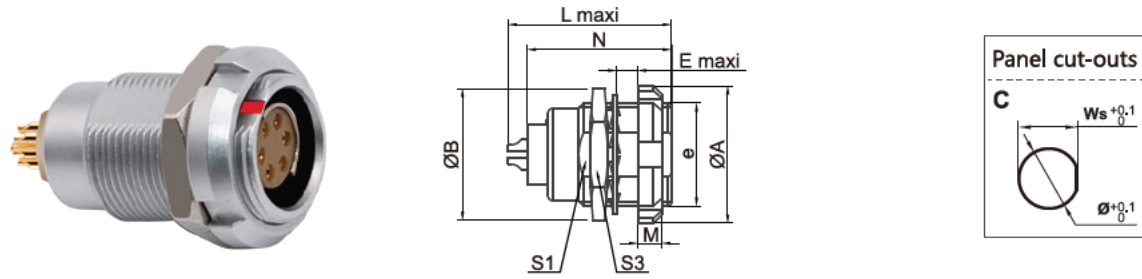
Reference		Dimensions(mm)					
Series	Model	A	B	M	L	S1	S2
0F	TX	9	12	26.5	36.5	8	9

Z1 SOCKET FIXED SOCKET, PANEL MOUNT, NUT FIXING, WITH HALF-SHELL KEY (G OR A)



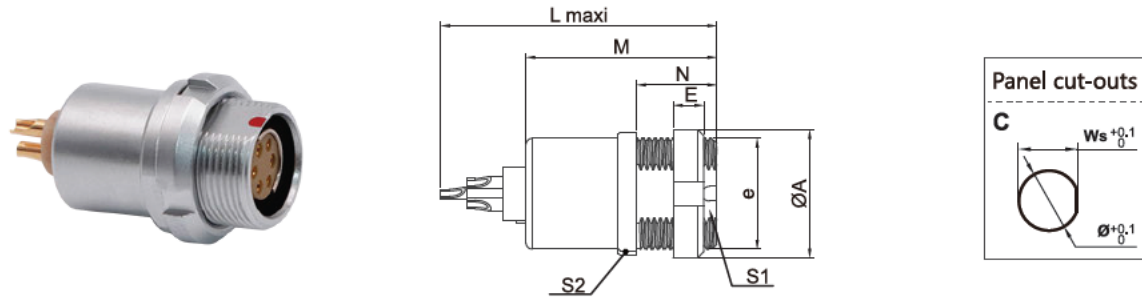
Reference		Dimensions(mm)					Panel cut-outs			
Series	Model	L	A	K	S	e	Ws	Ø	Type	
0F	Z1	22	11	8.4	11	M9*0.5	8.5	9.1	C	
1F	Z1	23.8	14	11.1	14	M12*1.0	11.2	12.1	C	

Z2 SOCKET TWO NUTS FIXED SOCKET, WITH HALF-SHELL KEY (G OR A)



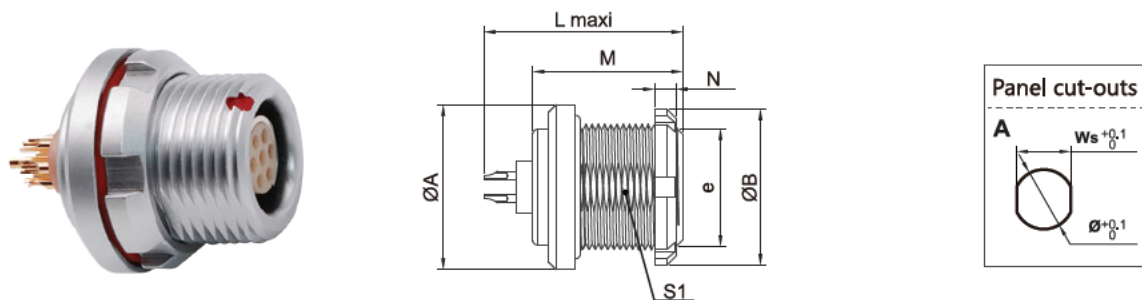
Reference		Dimensions(mm)										Panel cut-outs		
Series	Model	A	B	E	M	P	N	L	S1	e	Ws	Ø	Type	
0F	Z2	12	22	2.5	3.5	7	16.0	22.5	12.5	M9*0.5	8.5	9.1	C	
1F	Z2	16	27.7	5.5	3.0	10	21.5	30.0	14.5	M12*1.0	11.2	12.1	C	

Z3 SOCKET FIXED SOCKET, BACK PANEL MOUNT, NUT FIXING, WITH HALF-SHELL KEY (G OR A)



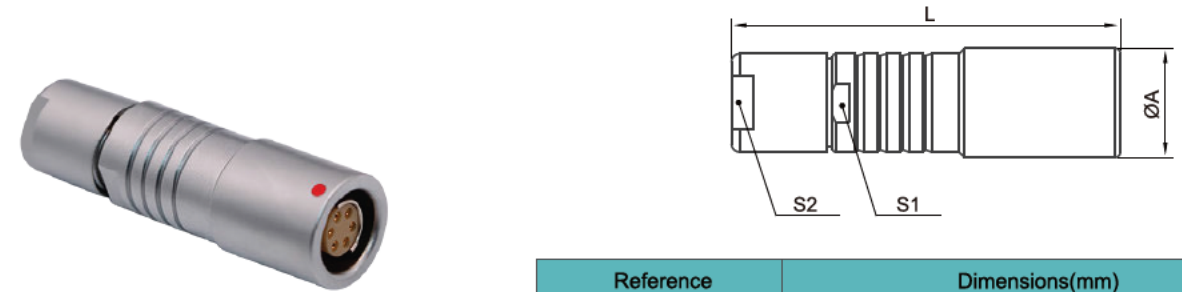
Reference		Dimensions(mm)									Panel cut-outs		
Series	Model	A	E	L	M	N	S1	S2	e	Ws	Ø	Type	
0F	Z3	12	2.5	21	15.5	6.5	8.4	10	M9*0.5	8.5	9.1	C	

Z3 SOCKET FIXED SOCKET, BACK PANEL MOUNT, NUT FIXING, WITH HALF-SHELL KEY (G OR A)



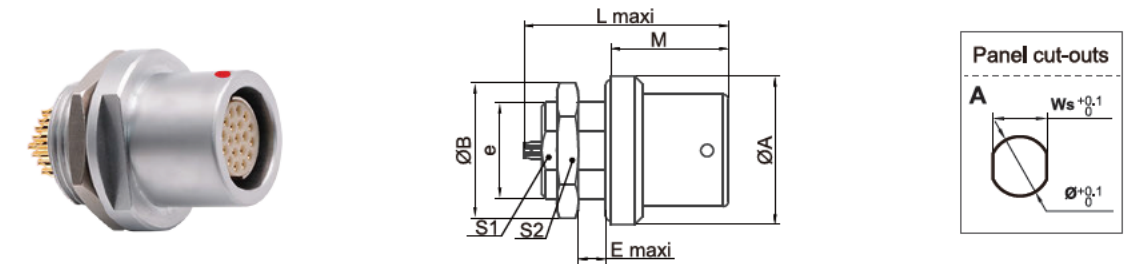
Reference		Dimensions(mm)									Panel cut-outs		
Series	Model	A	B	L	M	N	S1	e	Ws	Ø	Type		
1F	Z3	18.5	18	23.5	16.8	3.5	12.5	M14*1.0	12.1	14.1	A		

Z4 SOCKET FREE SOCKET, CABLE MOUNT, KEY (G OR A), CABLE COLLET AND NUT FOR FITTING A BEND RELIEF



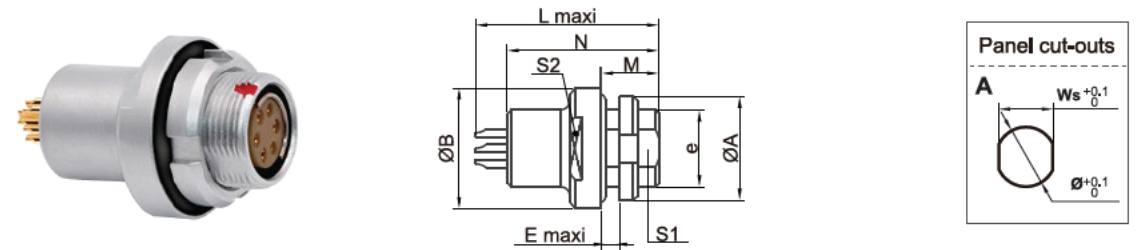
Reference		Dimensions(mm)			
Series	Model	A	L	S1	S2
0F	Z4	10	34	8	8
1F	Z4	12,8	45	10	9
2F	Z4	19	53	13	13
3F	Z4	23	65	16	15

Z6 SOCKET FIXED SOCKET, VACUUM-TIGHT, BACK PANEL MOUNT, WITH HALF-SHELL KEY (G OR A)



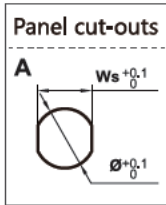
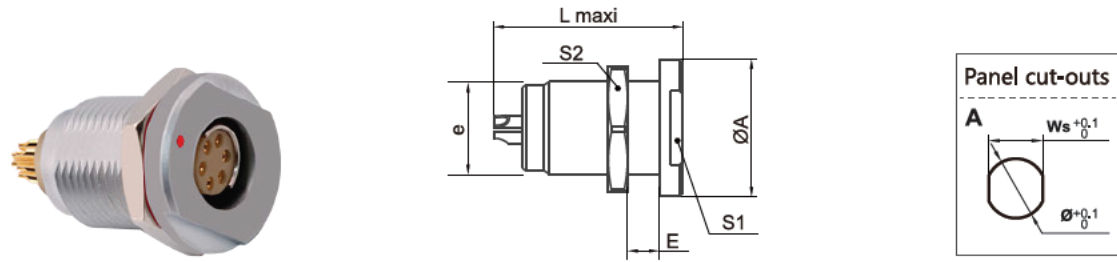
Reference		Dimensions(mm)									Panel cut-outs		
Series	Model	A	B	E	M	L	S1	S2	e	Ws	Ø	Type	
0F	Z6	13.9	12.5	5.0	10.2	23	8	11	M9*0.5	8.3	9.1	A	
1F	Z6	18,8	19,2	4,0	13,2	23,5	12	17	M14*1,0	12,1	14,1	A	
2F	Z6	21,8	22	3,5	16	25,5	14,5	19	M16*1,0	14,6	16,1	A	
4F	Z6	39,8	38	6	25,5	50,5	30,8	23	M32*1,0	30,9	32,1	A	

Z13 SOCKET FIXED SOCKET, VACUUM-TIGHT, BACK PANEL MOUNT, WITH HALF-SHELL KEY (G OR A)



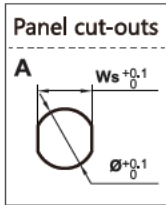
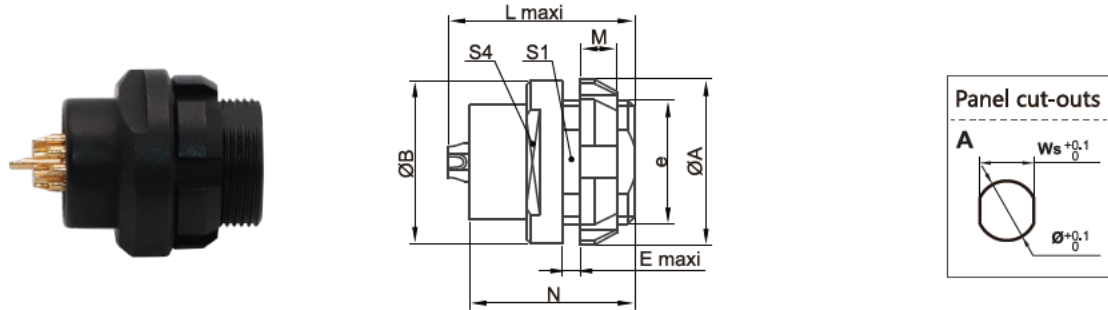
Reference		Dimensions(mm)									Panel cut-outs		
Series	Model	L	A	B	N	E	M	S1	S2	e	Ws	Ø	Type
0F	Z13	21	12	14	18,5	3	6	8,2	11	M9*0,5	8,3	9,1	A
1F	Z13	24,7	18	19	21	2,5	6	12,3	15	M14*1,0	12,1	14,1	A
15F	Z13	24,5	17,9	18,8	19,5	3,5	7	12	15	M14*1,0	12,1	14,1	A
2F	Z13	25,1	20	22	21,6	4	8	15	17	M16*1,0	14,6	16,1	A

Z16 SOCKET FIXED SOCKET, VACUUM-TIGHT, PANEL-MOUNT, NUT FIXING, WITH HALF-SHELL KEY (G OR A)



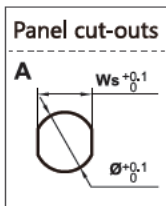
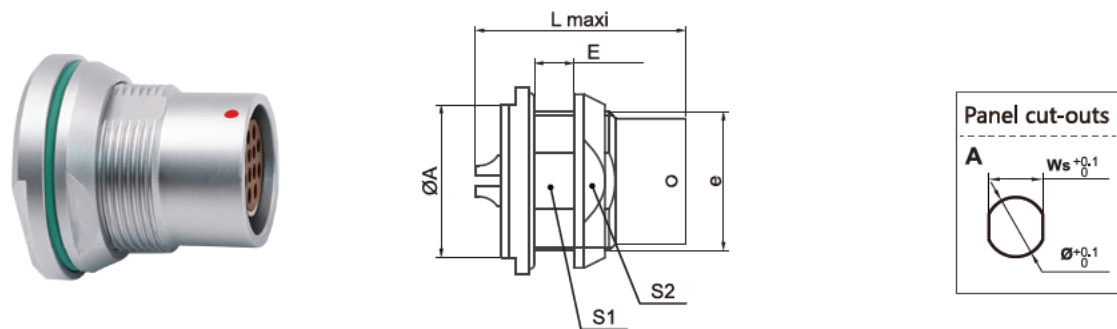
Reference		Dimensions(mm)							Panel cut-outs		
Series	Model	A	B	L	E	S1	S2	e	Ws	Ø	Type
0F	Z16	14	3.5	17.8	6.5	9	12	M10*0.5	9.1	10.1	A
1F	Z16	18.5	4.0	24.7	12	14	17	M14*1.0	12.1	14.1	A
2F	Z16	21.8	3.5	25.5	8.5	14.8	19	M16*1.0	14.6	16.1	A

Z20 SOCKET FIXED SOCKET, VACUUM-TIGHT, BACK PANEL MOUNT, WITH HALF-SHELL KEY (G OR A)



Reference		Dimensions(mm)									Panel cut-outs		
Series	Model	A	B	E	L	M	N	S1	S4	e	Ws	Ø	Type
0F	Z20	12	12	3.5	17	2.5	13.6	8.2	11	M9*0.5	8.3	9.1	A

ZX SOCKET FIXED SOCKET, VACUUM-TIGHT, BACK PANEL MOUNT, WITH HALF-SHELL KEY (G OR A)



Reference		Dimensions(mm)						Panel cut-outs		
Series	Model	A	L	E	S1	S2	e	Ws	Ø	Type
3F	ZX	22	30	7	18.3	22	M20*1.0	18.4	20.1	A

INSERT CONFIGURATION (Multipole)

Series	Code	Solder contacts		Contact ø(mm)	Resistance (mΩ)	Rated current (A)	Test voltage (V)	Working voltage (V)
		Male	Female					
0F	02			0.9	6	10	1000	500
	03			0.9	6	8	875	400
	04			0.7	7.5	7	875	300
	05			0.7	7.5	6.5	750	300
	06			0.5	10	2.5	750	300
	07			0.5	10	2.5	750	300
	09			0.5	10	2	600	200
	13			0.4	10	2	600	200
	1F	02			1.3	5	15	1500
03				1.3	5	12	1300	430
04				0.9	6	10	1300	430
05				0.9	6	9	1250	415
06				0.7	7.5	7	1050	350
07				0.7	7.5	7	950	315
08				0.7	7.5	5	950	315
10				0.5	1.0	2.5	900	300

INSERT CONFIGURATION (Multipole)

Series	Code	Solder contacts		Contact ø(mm)	Resistance (mΩ)	Rated current (A)	Test voltage (V)	Working voltage (V)	
		Male	Female						
1F	12			0.5	10	2	800	260	
	14			0.5	10	2	800	260	
15F	10			0.7	7.5	4.5	1500	500	
	12			0.7	7.5	4.2	1500	500	
	19			0.7	10	2.5	900	300	
2F	03			1.6	4	17	2400	800	
	04			1.3	5	15	1850	810	
	05			1.3	5	14	1750	580	
	08			1.3	5	12	1500	500	
	09	1			1.3	5	12	2200	730
		8			0.9	6	6	1500	500
	16			0.7	7.5	6	950	315	
3F	02			3.0	6	35	2100	700	
	04			2.0	3	20	1800	320	
	07	1			2.0	5	12	2200	730
		6			1.3	6	6	1500	500
15			0.9	6	5.3	1600	250		
4F	12			2.0	3	16	2200	500	

INSERT CONFIGURATION (Coaxial hybrid)

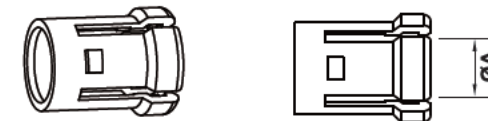
Series	Code	Number of contacts	Solder contacts		Contact ø(mm)	Resistance (mΩ)	Rated current (A)	Test voltage (V)	Working voltage (V)	Impedance (Ω)
			Male	Female						
2F	804	4			0.7	6	7	900	400	-
		1 Coax			1.3	5	15	1850	610	50

CALCULATION METHOD: WORKING VOLTAGE= TEST VOLTAGE/3

ALIGNMENT KEY

The location of the plug	Legend	
	Single chip positioning	Double chip positioning
Key location code	G	A

COLLET (The material of collet is nickel plated brass)



Code	Collet ØA (mm)	Cable DiaØ(mm)		Series				
		min.	max.	0F	1F	15F	2F	3F
30	3.0	2.6	3.0	●	●			
37	3.7	3.2	3.7	○				
40	4.0	3.6	4.0	●	●			
45	4.5	4.6	5.0	○				
50	5.0	5.1	5.5	●	●	○	●	
52	5.2	4.8	5.2	○				
60	6.0	5.6	6.0		●	○	●	●
65	6.5	6.1	6.5	○				
70	7.0	6.1	7.0					●
77	7.7	7.1	7.7				●	

○ Protection index(mated):IP50&IP68
● Protection index(mated):IP68