



SHENZHEN MOCO INTERCONNECT CO.,LTD.

HQ Add:5/F Xinghuang Building, Fangyuan Rd., Gongming Town, Shenzhen, China

Factory Add:4/F of B bldg, Hengshou Techno Park, HeShuiKou, Gongming Town, Shenzhen, China

Tel: +86-755-27109353 Fax: +86-755-33239502 ZIP Code: 518106
www.mocosz.com www.mococonnectors.com

COMPANY PROFILE

MOCO is committed to being one of the world's top manufacturers of industrial connectors and cables. Established in 2012, we have been growing stably year by year. With the excellent management and great efforts made during the past few years, we have developed a lot of popular products such as precision circular push-pull connectors, M8 / M12 circular connectors, RF coaxial connectors, Mil-Spec electrical connectors, and high quality overmolding cable assemblies. And we are always ready for custom products. MOCO connectors are of stable performance and attractive design which are interchangeable with international brands. Our products are widely used in the fields of military, medical, measurement, audio-video, navigation, security, aviation, industrial control, automotive and power etc.

During the past few years, we have introduced several world class CNC machines to process all of our connector metal parts. Meanwhile, we have obtained UL, CE, RoHS, ISO9001 and ISO13485 certificates. And we have also obtained the National High-tech Enterprise certification. We have multifunctional laboratory for both connectors and cables with testing equipments like cable testers, plugging force tester, salt spray chamber, Programmable Temperature & Humidity Chamber, Vision Measuring System, voltage tester and wire bending test machine. Our experienced staff members are always available to discuss your requirements and ensure full customer satisfaction. Please contact us today.



PRODUCTION EQUIPMENT

MOCO imported modern high precision and high efficiency professional processing equipment, including STAR CNC machines imported from Japan, contact optical sorting machine, injection machine and grinding machine, and supplemented with professionals and management team. To provide best products with costs-effectiveness for our customer, we are committed to optimize process and improve productivity at the forefront of production line.



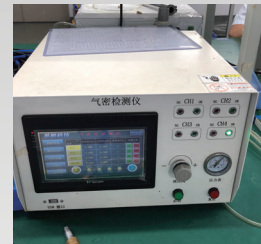
TESTING EQUIPMENT

"Quality first, reputation upmost, quality products and continuous improvement" is our quality policy. Every aspect of production, we are strictly follow the requirements of the quality policy. Each step we are constantly strive for excellence. As we know, for precision machinery, minor errors will cause huge losses.

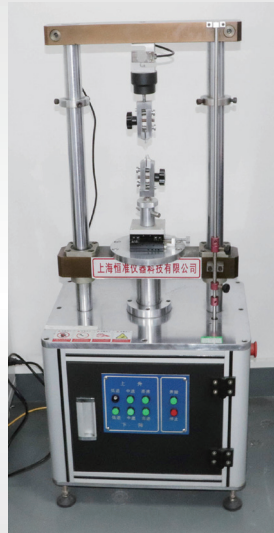
MOCO implement comprehensive quality management, strictly implement the requirements of ISO9001:2015 quality management system. Our team upholds "quality first, meets customers requirements, continuous improvement and going concern" quality policy, try our best to provide excellent products and services.



Plugging force tester



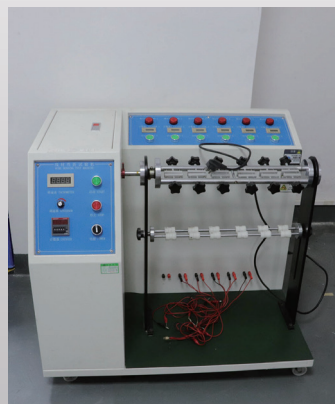
Air-leakage Detector



Servo tensile testing machine



Salt spray chamber



Wire bending test machine



Withstand Voltage Tester



DC power supply



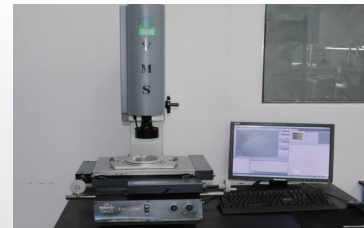
Cable tester



DC low resistance tester



Insulation Resistance Tester



Vision Measuring System(VMS)



High and low temperature test chamber



Microscope

APPLICATION

MOCO connectors widely used in the fields of military, medical, measurement, audio-video, automotive, Industrial Electronics and instruments etc. Products with small size and light weight, can be flexible mounted on varieties of portable external interfaces, and have great technical performances to satisfy the requirements of current or signal connection.



- Diagnostic equipment
- Surgical Instruments
- Therapeutic application
- Medical imaging
- Cardiac aids
- Disposable equipment



- Studio and outside broadcast
- TV and Movie
- HD and SD cameras
- Remote camera control
- Drone
- Communication systems
- Monitoring equipment



- Avionics
- Maritime
- Automobile
- Railway
- Transport
- Tsting and measurement

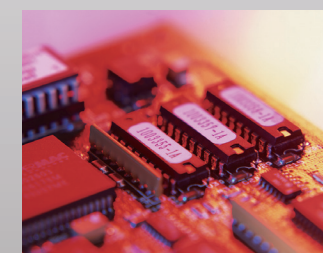


- Racing
- Submarine industry
- Weatherproof application
- Robots



- Oil and gas
- Nuclear
- Renewable Energy
- Battery
- fuel cell
- Energy

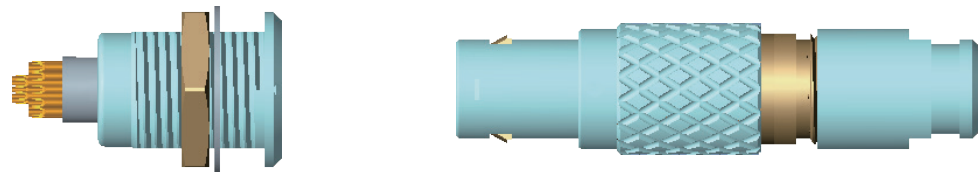
- Sensor
- Data acquisition
- Automotive
- Science research
- Vacuum
- Computer



- Target acquisition
- Military charge
- Power module
- Acoustic measurement
- Infrared thermal imaging
- Electronic compass



PUSH-PULL SELF-LATCHING CONNECTION SYSTEM



Mechanical locking performance

	Fv Average locking force	The self-latching system allows the connector to be mated by simply pushing the plug axially into the socket.
	Fd Average pulling force (Axial pull shell)	Once firmly latched, connection cannot be broken by pulling on the cable or any other component part other than the outer release sleeve.
	Fa Average pushing force (Axial pull cap)	When required, the connector is disengaged by a single axial pull on the outer release sleeve. This first disengages the latches and then withdraws the plug from the socket.

Standard series

Force (N)	Series			
	00	0S	1S	2S
Fv	9	14	15	17
Fd	7	9	10	11
Fa	120	140	250	350

Keyed series

Force (N)	Series				
	00	0B	1B	2B	3B
Fv	9	10	14	15	17
Fd	7	8	11	12	14
Fa	120	250	300	400	550

Watertight keyed series

Force (N)	Series			
	0K	1K	2K	3K
Fv	14	16	20	32
Fd	9	10	13	25
Fa	250	300	400	550

Note:1N=0.102kg

Note: The forces mentioned tested with shell only which without contact.

Endurance: 5000 cycles

After rated cycling, locking system is still valid. (1 cycling = 1 push–pull, 300 cycles/h)

This value measured by IEC 60512–7 test 13a.

DEFINITION OF INGRESS PROTECTION (IP CODE)

IEC 60529 outlines an international classification system for the sealing effectiveness of enclosures of electrical equipment against the intrusion into the equipment of foreign bodies (i.e. tools, dust, fingers) and moisture. This classification system utilizes the letters «IP» (Ingress Protection) followed by two digits.

For example: IP50= IP 5 0
IP Code _____
First _____
Second _____

Degrees of protection - First digit

The first digit of the IP code indicates the degree to which persons are protected against contact with moving parts and the degree that equipment is protected against solid foreign bodies intruding into an enclosure.

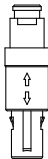
Code	First digit description
0	No special protection
1	Protection from a large part of the body such as hand or from solid objects greater than 50 mm in diameter
2	Protection against objects not greater than 80 mm in length and 12 mm in diameter
3	Protection from entry by tools, wires, etc.,with a diameter or thickness greater than 2.5 mm
4	Protection from entry by solid objects with a diameter or thickness greater than 1.0 mm
5	Protection from the amount of dust that would interfere with the operation of the equipment
6	Dust–tight
7	–
8	–

Degrees of protection - Second digit

The second digit indicates the degree of protection of the equipment inside the enclosure against the harmful entry of various forms of moisture (e.g. dripping, spraying, submersion, etc.)

Code	Second digit description
0	No special protection
1	Protection from vertically dripping water
2	Protection from dripping water when tilted up to 15°
3	Protection from sprayed water
4	Protection from splashed water
5	Protection from water projected from a nozzle
6	Protection against heavy seas, or powerful jets of water
7	Protection against temporary immersion
8	Protection against complete continuous submersion in water

Definition of connectors

Plug											
Socket											
Series	B	K	M	Y	W	S	F	C	U	J	P
Environment	Indoor	Outdoor				Indoor	Outdoor				Indoor
Ingress Protection	IP50	IP66-68 Vacuumtight				IP50	IP66-68 Vacuumtight				IP50-66
Temperature	-55°C~-+250°C									-20°C~-+120°C	-20°C~-+125°C
Latching	Push-Pull Self-Latching									Claw locking type	Push-Pull Self-Latching
Insulator type	2-32Pin	2-32Pin	2-32Pin	2-32Pin	1-6Pin	2-19Pin	2-9Pin	2-13Pin	2-4Pin	2-26Pin	
Contact type	Solder or PCB print										
Features	Multiple key options										

CONTENT

Circular Metal Series

B series (Indoor, keyed)		
Main features	09	
Part Numbering system	10	
Housing model	11	
Elbow socket models	19	
Watertight or vacuumtight models	21	
Alignment key	23	
K series(Outdoor, keyed)		
Main features	25	
Part Numbering system	26	
Housing model	27	
Watertight or vacuumtight models	30	
Alignment key	31	
M series(Outdoor, keyed)		
Main features	33	
Part Numbering system.....	34	
Housing model.....	35	
Alignment key.....	36	
Y series(Outdoor, keyed)		
Main features	38	
Part Numbering system.....	39	
Housing model	40	
Alignment key	42	
W series (Outdoor,keyed)		
Main features	44	
Part Numbering System.....	45	
Housing model.....	46	
Alignment key.....	51	
Insert Configuration(B,K,M,Y and Wseries)		47
Cable collet (B,K,M,Y and Wseries)		52
PCB Drilling Pattern		53
S series(Indoor, stepped insert)		
Main features.....	58	
Part Numbering system.....	59	
Housing model	60	
Elbow socket models	62	
Insert Configuration	64	
Coaxial series(Indoor, blind insertion)		
Main features	66	
Part Numbering system	67	
Housing model	68	
Elbow socket models.....	70	
Insert Configuration	76	
Traxial series(Indoor, blind insertion)		
Main features	78	
Part Numbering system	79	
Housing model	80	
Insert Configuration	83	
High Voltage(Indoor,blind insertion)		
Main features	85	
Part Numbering System.....	86	
Housing model.....	87	
Insert Configuration.....	88	
Cable Collet (Coaxial,High Voltage Series)		83

F series(Outdoor, half-shell keyed)	
Main features	90
Part Numbering system.....	91
Housing model	92
Insert Configuration	98
Alignment key.....	100
Cable collet	100
C series(Outdoor, half-shell and keying keyed)	
Main features.....	102
Part Numbering system.....	103
Housing model.....	104
Insert Configuration.....	105
U series(Outdoor, keyed)	
Main features	107
Part Numbering system.....	108
Housing model	109
Alignment key.....	110
Insert Configuration	111
Cable collet (C and U series)	112
J series(outdoor, rectangle connector)	
Main features.....	113
Part Numbering system.....	115
Housing model	116
Insert Configuration.....	117

Circular Plastic Series

P series(Indoor, keyed)	
Part Numbering system.....	119
0P series	
Housing model	120
Alignment key, accessories	121
Insert Configuration	122
PCB Drilling Pattern.....	123
1P series	
Housing model	124
Alignment key, accessories	126
Insert Configuration	127
PCB Drilling Pattern.....	128
2P series	
Housing model	129
Alignment key, accessories	130
Insert Configuration	131
PCB Drilling Pattern.....	132
Metal NIBP connectors	134
Accssories	
Bend relief	138
Caps	139
Assembly Instructions	141
Cable assemblies	145

B SERIES

(INDOOR KEYED)

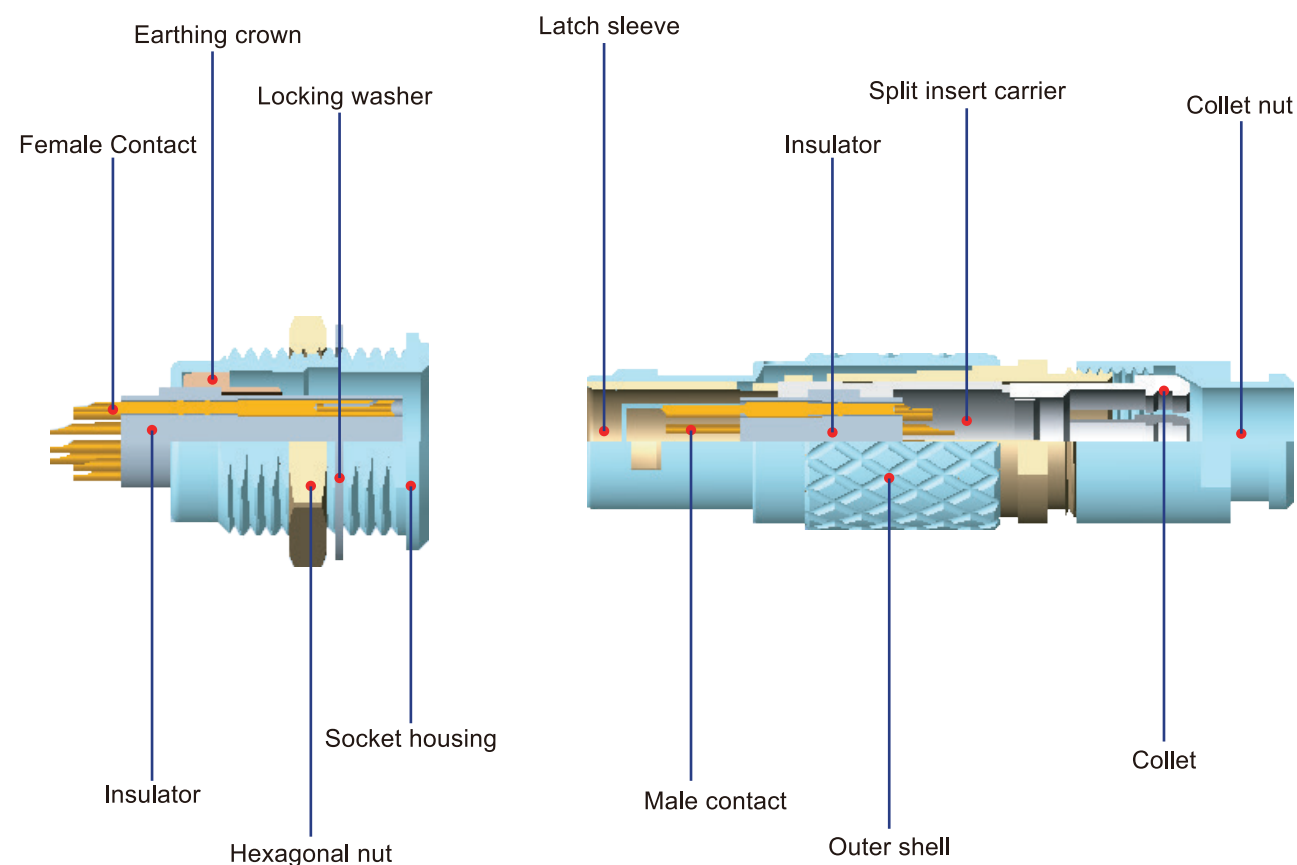


MAIN FEATURES:

1. Security of the push –pull self-latching system
2. Multipole types 2 to 32 contacts
3. Solder or PCB contacts (straight or elbow)
4. High Packing density for space saving
5. Multiple key options to avoid cross mating of similar connectors
6. Keying system (G key standard) for connector alignment
7. 360° screening for full EMC shielding

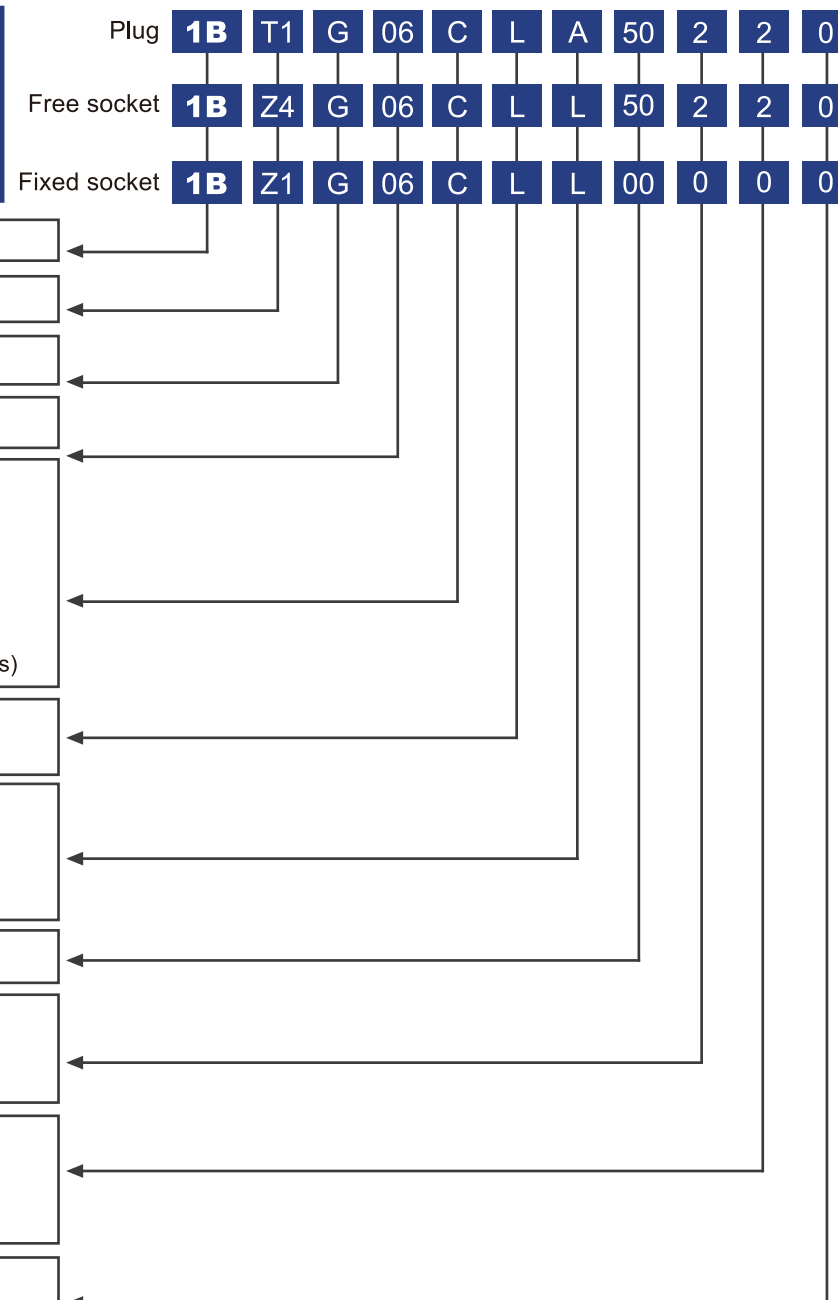
PART SECTION SHOWING INTERNAL COMPONENTS

B series



Part Numbering System

- 1.Series: (Page 11)
- 2.Housing model: (Page 11)
- 3.Alignment key: (Page 23)
- 4.Insert configuration: (Page 47)
- 5.Housing material
C=Chrome plated brass
K=Black Chrome plated brass
N=Nickel plated brass
T=Stainless steel
L=Aluminium alloy anodized
H=ABS/brass(only for Z11 and Z12 elbow sockets)
6. Insulator material
L=PPS、T=PTFE
- 7.Contact type
A=Solder male L=Solder female
N=Print female V=Print female 90°
W=Print male 90° D=Print male
- 8.Cable OD: (Page 52)
- 9.Outshell pattern
2=Diamond Pattern 3=Rice Pattern
4=Circle Pattern
- 10.Collet Nut Type
1=Cone(without bend relief)
2=collet nut for bend relief
3=Flat(without bend relief)
- 11.Earthing Tag
0=Without Earthing Tag 1=With Earthing Tag



PART NUMBER EXAMPLE:

Straight plug with cable collet:

1BT1G06CLA50220=1B series straight plug with key(G) and cable collet, multipole type with 6 contacts, outer shell in chrome plated brass, PPS Insulator, solder male contacts, collet for 5.0mm diameter cable, diamond pattern, collet nut for bend relief, without earthing tag

Free socket:

1BZ4G06CLL50220=1B series free socket with key(G) and cable collet, multipole type with 6 contacts, outer shell in chrome plated brass, PPS Insulator, solder female contacts, collet for 5.0mm diameter cable, diamond Pattern, collet nut for bend relief, without earthing tag.

Fixed socket:

1BZ1G06CLL00000=1B series fixed socket, nut fixing, with key(G), multipole type with 6 contacts, outer shell in chrome plated brass, PPS insulator, solder female contacts, Without earthing tag

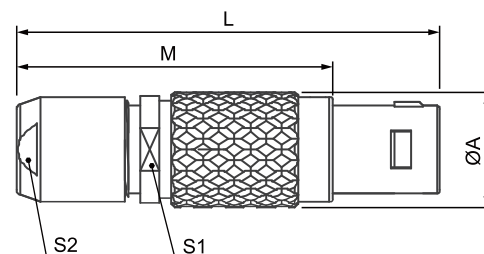
TECHNICAL CHARACTERISTICS

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)	IP50

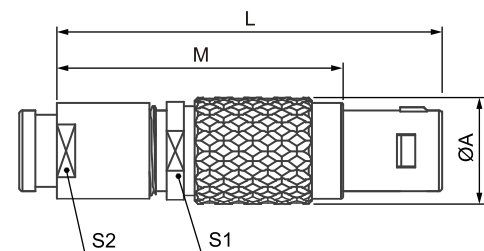
Housing Models

T1 PLUG STRAIGHT PLUG, KEY (G) OR KEYS (A...M AND R), CABLE COLLET



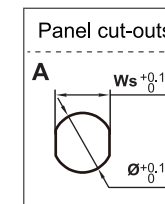
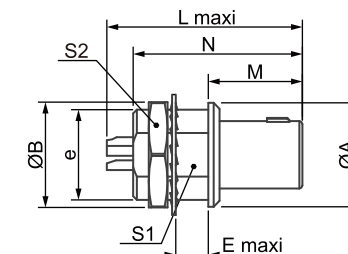
Reference		Dimensions(mm)				
Series	Model	L	A	M	S2	S1
00B	T1	28	6.5	20	5.0	5.5
0B	T1	35	9.5	26	7	8
1B	T1	43	12	32	9	10
2B	T1	50	15	38	12	13
3B	T1	57	18	42	15	15

T1 PLUG STRAIGHT PLUG, KEY (G) OR KEYS (A...M), CABLE COLLET AND NUT FOR FITTING A BEND RELIEF



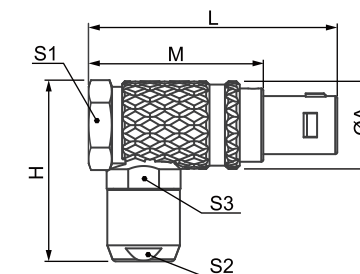
Reference		Dimensions(mm)				
Series	Model	L	A	M	S2	S1
00B	T1	28	6.5	20	6	5.5
0B	T1	35	9.5	25	8	8
1B	T1	41	12	30	9	10
2B	T1	48	15	36	13	13
3B	T1	57	18	42	15	15

T2 PLUG FIXED PLUG, NON-LATCHING, NUT FIXING, KEY (G) OR KEYS (A...L)



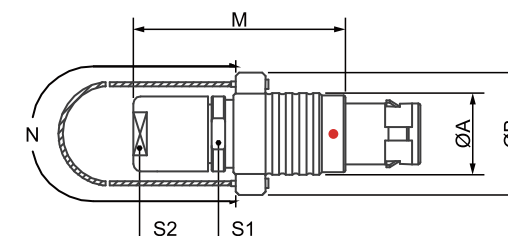
Reference		Dimensions(mm)									Panel cut-outs		
Series	Model	A	B	L	N	M	E	S1	S2	e	Ws	Ø	Type
00B	T2	8	10.2	18.1	15	9	2.9	6.3	9	M7*0.5	6.4	7.1	A
0B	T2	10	12.5	20.8	18.4	11.2	4.2	8.2	11	M9*0.6	8.3	9.1	A
1B	T2	14	16	25.2	22.6	12.5	5.4	10.5	14	M12*1.0	10.6	12.1	A
2B	T2	18	19.2	24.7	22.5	13.8	6.0	13.5	17	M15*1.0	13.6	15.1	A
3B	T2	21	25.4	32.1	29.1	17.0	5.8	16.5	22	M18*1.0	16.6	18.1	A

T3 PLUG ELBOW (90°) PLUG, KEY (G) OR KEYS(A...M AND R), CABLE COLLET



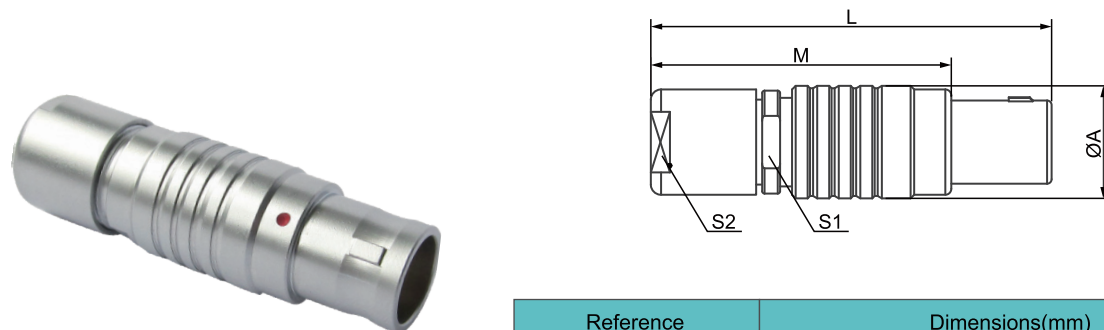
Reference		Dimensions(mm)						
Series	Model	A	L	M	S1	S2	S3	H
00B	T3	7.7	25.1	17.1	7	5	4	18.5
0B	T3	11	30	20	9	7	8	23
1B	T3	13.5	37	26	12	9	10	30.5
2B	T3	16.5	41.5	29.5	15	12	13	34
3B	T3	19	50	35	18	15	15	37

T4 PLUG STRAIGHT PLUG, KEY (G) OR KEYS (A...M AND R), CABLE COLLET AND LANYARD RELEASE



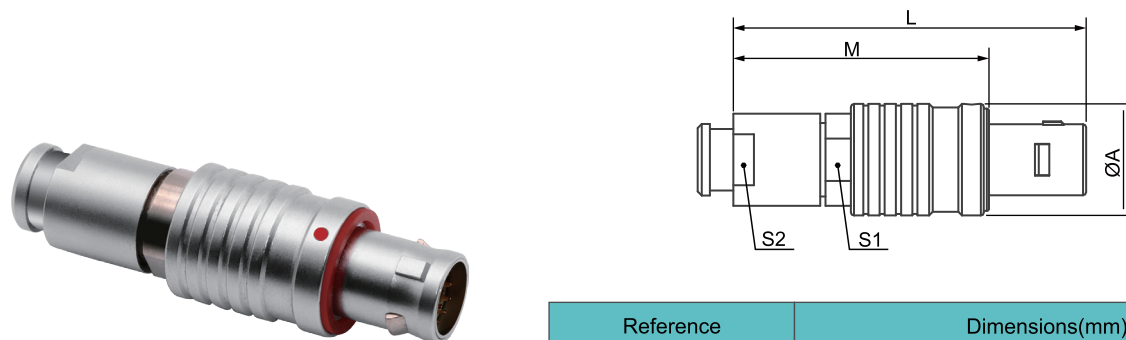
Reference		Dimensions(mm)					
Series	Model	A	B	N	M	S2	S1
0B	T4	9.5	16	140	23.5	8	8
1B	T4	12	18	140	34	9	10
2B	T4	14.6	21	160	42	13	13
3B	T4	18	25	190	42	15	15

T5 PLUG STRAIGHT PLUG, NON-LATCHING, KEY (G)OR KEYS (A...M), CABLE COLLET



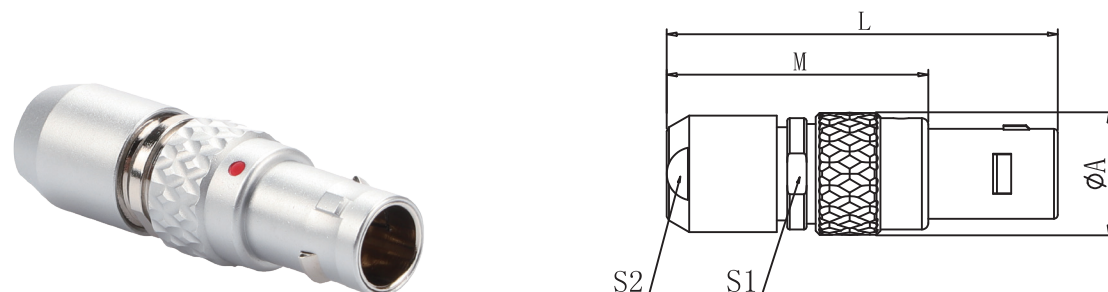
Reference		Dimensions(mm)				
Series	Model	L	A	M	S2	S1
0B	T5	35	9,5	25	8	7
1B	T5	41	12	30	9	10
2B	T5	48	15	36	13	13
3B	T5	57	18	42	15	15

T6 PLUG SEALED STRAIGHT PLUG, KEY(G) OR KEY (A...L), CABLE COLLET, FRONT SEAL AND NUT FOR FITTING A BEND RELIEF (PROTECTION DEGREE IP54 WHEN MATED)



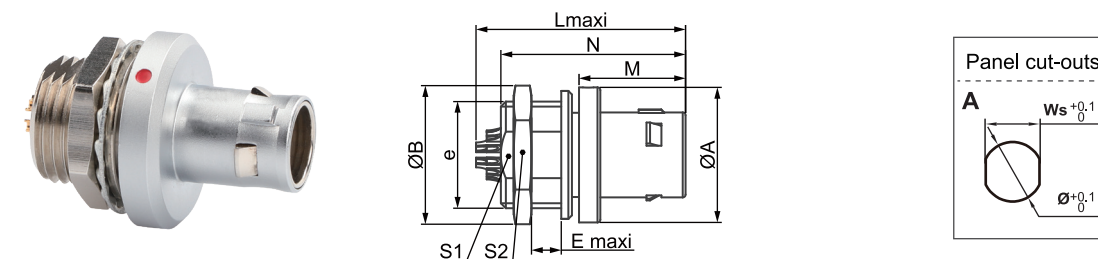
Reference		Dimensions(mm)				
Series	Model	A	L	M	S2	S1
0B	T6	11	35	23	8	8
1B	T6	13.5	42	33	9	10
2B	T6	16.5	48	36	13	13
3B	T6	19	56.5	41.5	15	15

T7 PLUG STRAIGHT PLUG, SHORT VERSION, KEY (G), CABLE COLLET



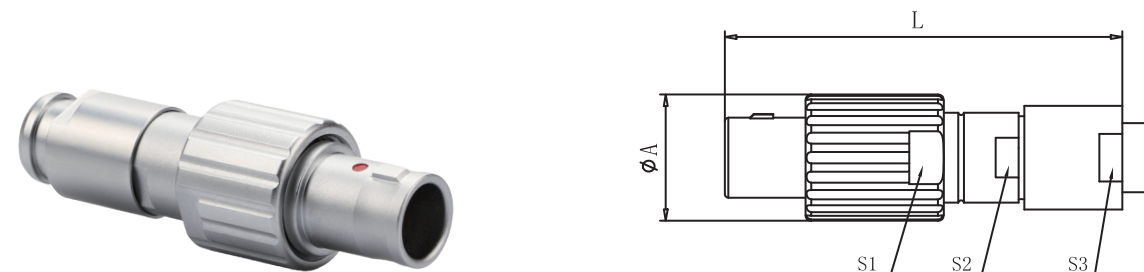
Reference		Dimensions(mm)				
Series	Model	A	L	M	S2	S1
0B	T7	9.5	30.5	20.5	8	8

T9 PLUG FIXED PLUG, NUT FIXING, KEY (G) OR KEYS (A...L)



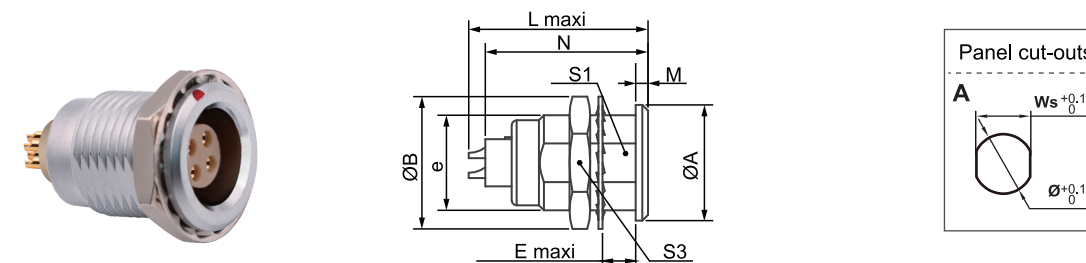
Reference		Dimensions(mm)									Panel cut-outs		
Series	Model	A	B	L	N	M	E	S1	S2	e	Ws	Ø	Type
0B	T9	14.1	12.5	20.8	18.4	11.2	4.2	8.2	11	M9*0.6	8.3	9.1	A
1B	T9	18	16	25.2	22.6	12.5	5.4	10.5	14	M12*1.0	10.6	12.1	A
2B	T9	19.5	19.2	28.7	26.3	15	6.0	13.5	17	M15*1.0	13.6	15.1	A

T10 PLUG STRAIGHT SCREW LOCKED PLUG(HEIGHTEN VIBRATION RESISTANCE),CABLE COLLET, NUT FOR FITTING A BEND RELIEF.



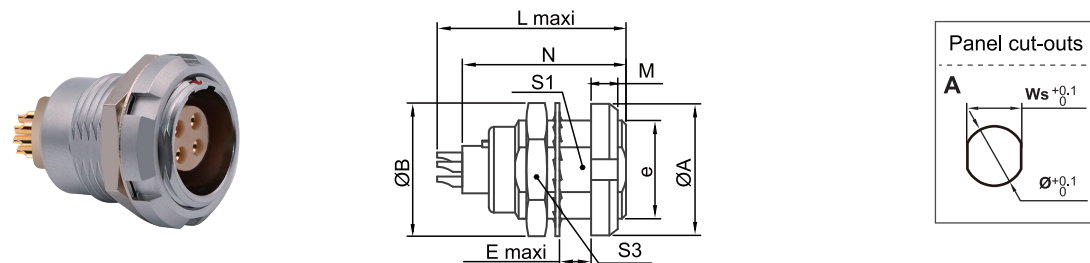
Reference		Dimensions(mm)				
Series	Model	L	A	S1	S2	S3
0B	T10	34	11	10	7	8
1B	T10	42	14.5	13	9	9
2B	T10	48.2	18	16	12	13
3B	T10	60.8	22	20	15	15

Z1 SOCKET FIXED SOCKET, FRONT PANEL MOUNT, NUT FIXING, KEY (G) OR KEYS (A...M AND R)



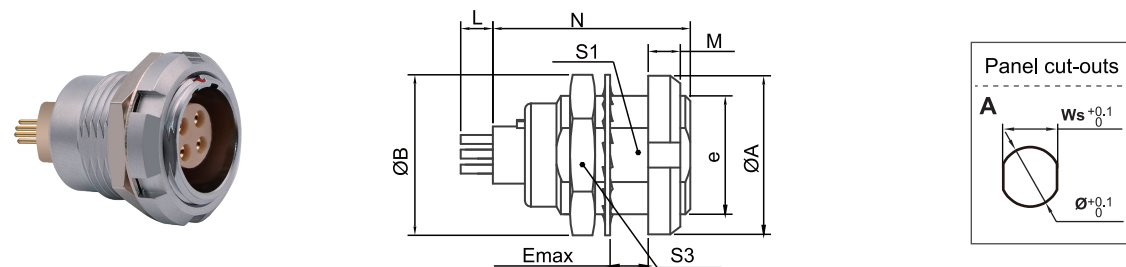
Reference		Dimensions(mm)									Panel cut-outs		
Series	Model	A	B	L	N	M	E	S1	S3	e	Ws	Ø	Type
00B	Z1	8	10.2	15.9	13.7	1.0	6.0	6.3	9	M7*0.5	6.4	7.1	A
0B	Z1	10	12.5	21.3	16.8	1.25	7.0	8.2	11	M9*0.6	8.3	9.1	A
1B	Z1	14	16	23.2	18.7	1.5	7.5	10.5	14	M12*1.0	10.6	12.1	A
2B	Z1	18	19.2	24.8	20	2	8.0	13.5	17	M15*1.0	13.6	15.1	A
3B	Z1	21	25.4	30.7	25	1.85	11	16.5	22	M18*1.0	16.6	18.1	A

Z2 SOCKET FIXED SOCKET WITH TWO NUTS, FRONT OR BACK PANEL MOUNT , KEY (G) OR KEYS (A...M AND R)



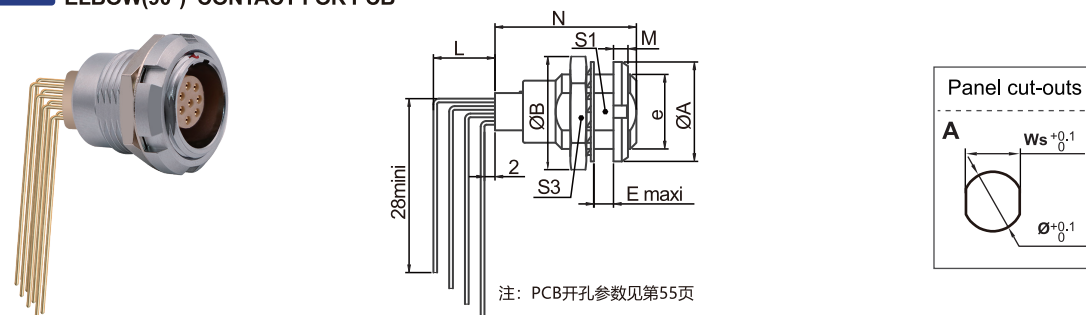
Reference		Dimensions(mm)									Panel cut-outs		
Series	Model	A	B	L	N	M	E	S1	S3	e	Ws	Ø	Type
00B	Z2	10	10.2	15.9	13.7	2.5	4.3	6.3	9	M7*0.5	6.4	7.1	A
0B	Z2	12	12.5	21.3	16.8	2.5	5.5	8.2	11	M9*0.6	8.3	9.1	A
1B	Z2	16	16.0	23.2	18.7	3.2	6.0	10.5	14	M12*1.0	10.6	12.1	A
2B	Z2	20	19.2	24.8	20	3.5	6.5	13.5	17	M15*1.0	13.6	15.1	A
3B	Z2	23	25.4	30.7	25	4.0	9.0	16.5	22	M18*1.0	16.6	18.1	A

Z2 SOCKET FIXED SOCKET WITH TWO NUTS, FRONT OR BACK PANEL MOUNT , KEY (G) OR KEYS (A...M AND R) AND STRAIGHT CONTACT FOR PCB



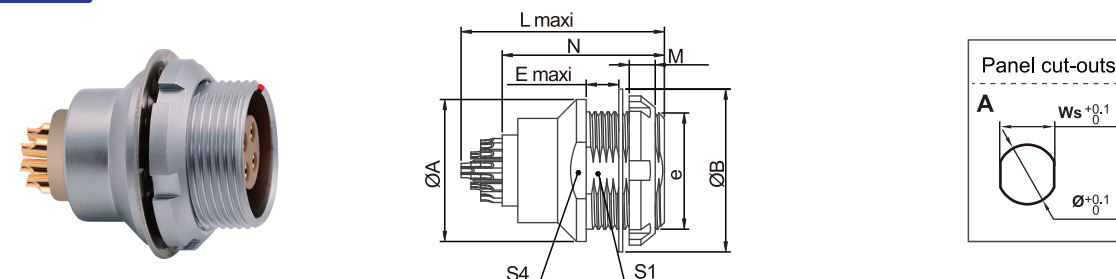
Reference		Dimensions(mm)									Panel cut-outs		
Series	Model	A	B	L	N	M	E	S1	S3	e	Ws	Ø	Type
0B	Z2	12	12.5	4	16.8	2.5	5.5	8.2	11	M9*0.6	8.3	9.1	A
1B	Z2	16	16.0	4	18.7	3.2	6.0	10.5	14	M12*1.0	10.6	12.1	A
2B	Z2	20	19.2	4	20	3.5	6.5	13.5	17	M15*1.0	13.6	15.1	A
3B	Z2	23	25.4	4.5	25	4.0	9.0	16.5	22	M18*1.0	16.6	18.1	A

Z2 SOCKET FIXED SOCKET WITH TWO NUTS, FRONT OR BACK PANEL MOUNT , KEY (G) OR KEYS (A...M AND R) ELBOW(90°) CONTACT FOR PCB



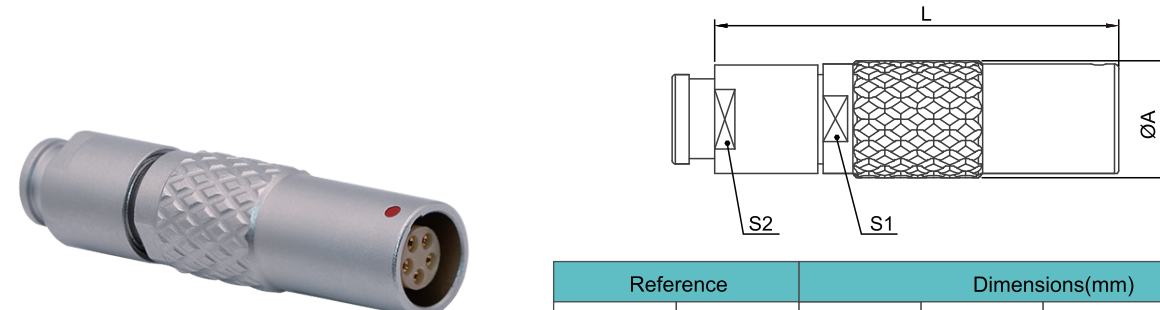
Reference		Dimensions(mm)								Panel cut-outs		
Series	Model	A	B	N	M	E	S1	S3	e	Ws	Ø	Type
0B	Z2	12	12.5	16.8	2.5	5.5	8.2	11	M9*0.6	8.3	9.1	A
1B	Z2	16	16.0	18.7	3.2	6.0	10.5	14	M12*1.0	10.6	12.1	A
2B	Z2	20	19.2	20	3.5	6.5	13.5	17	M15*1.0	13.6	15.1	A
3B	Z2	23	25.4	25	4.0	9.0	16.5	22	M18*1.0	16.6	18.1	A

Z3 SOCKET FIXED SOCKET, BACK PANEL MOUNT , KEY (G) OR KEYS (A...M AND R)



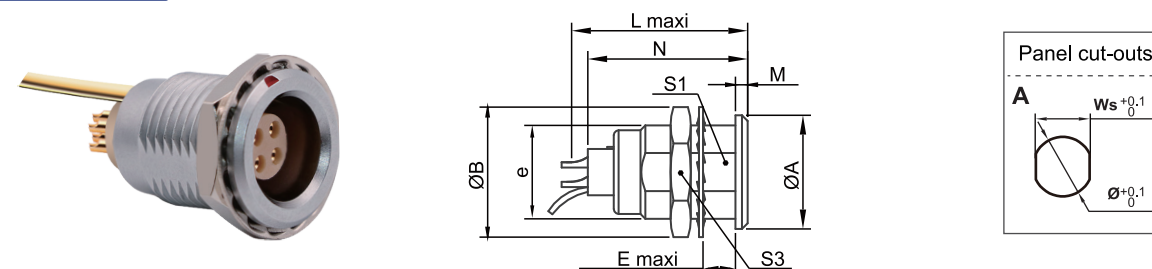
Reference		Dimensions(mm)									Panel cut-outs		
Series	Model	A	B	L	N	M	E	S1	S4	e	Ws	Ø	Type
00B	Z3	8.5	10	15.9	13.7	2.5	4.0	6.3	7.5	M7*0.5	6.4	7.1	A
0B	Z3	11	12	22	16.8	2.5	2.5	8.2	9	M9*0.6	8.3	9.1	A
1B	Z3	14	16	24	18.7	3.2	5.0	10.5	12	M12*1.0	10.6	12.1	A
2B	Z3	18	20	27.5	20	3.5	4.5	13.5	15	M15*1.0	13.6	15.1	A
3B	Z3	21.8	23	31	25	4.0	9.0	16.5	20	M18*1.0	16.6	18.1	A

Z4 SOCKET FREE SOCKET, FOR CABLE CONNECTING, CABLE MOUNT, KEY (G) OR KEYS (A...M AND R) AND NUT FOR FITTING A BEND RELIEF



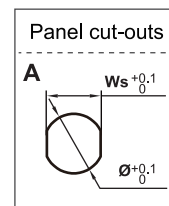
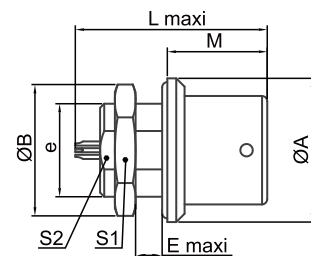
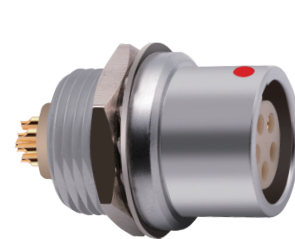
Reference		Dimensions(mm)			
Series	Model	A	L	S1	S2
00B	Z4	6.8	26.5	5.5	6
0B	Z4	9.6	34.5	8.0	8
1B	Z4	12.0	40.0	10.0	9
2B	Z4	16.5	48.0	13.0	13
3B	Z4	19.0	55.0	16.0	15

Z5 SOCKET FIXED SOCKET WITH EARTHING TAG, PANEL MOUNT, NUT FIXING, KEY (G) OR KEYS (A...M AND R)



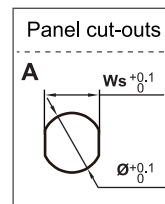
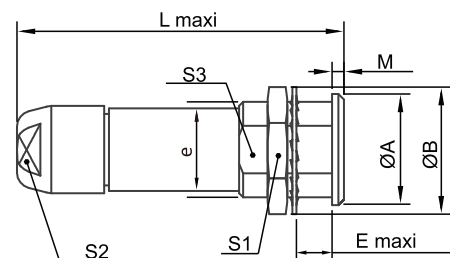
Reference		Dimensions(mm)									Panel cut-outs		
Series	Model	A	B	L	N	M	E	S1	S3	e	Ws	Ø	Type
00B	Z5	8	10.2	15.9	13.7	1.0	6	6.3	9	M7*0.5	6.4	7.1	A
0B	Z5	10	12.5	21.3	16.8	1.25	7	8.2	11	M9*0.6	8.3	9.1	A
1B	Z5	14	16	23.2	18.7	1.5	7.5	10.5	14	M12*1.0	10.6	12.1	A
2B	Z5	18	19.2	24.8	20	2	8	13.5	17	M15*1.0	13.6	15.1	A
3B	Z5	21	25.4	30.7	25	2	11	16.5	22	M18*1.0	16.6	18.1	A

Z6 SOCKET FIXED SOCKET, NUT FIXING, KEY (G) OR KEYS (A...M AND R), AND PROTRUDING SHELL



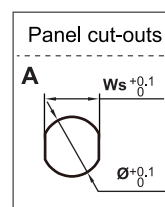
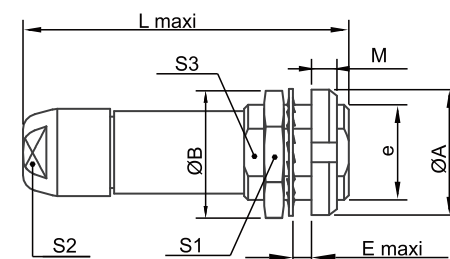
Reference		Dimensions(mm)								Panel cut-outs		
Series	Model	A	B	L	M	E	S1	S2	e	Ws	Ø	Type
0B	Z6	10	12.5	20	9.8	3.5	8.2	11	M9*0.6	8.3	9.1	A
1B	Z6	14	16.0	19.5	11	4	10.5	14	M12*1.0	10.6	12.1	A
2B	Z6	18	19.2	24	12	5.1	13.5	17	M15*1.0	13.6	15.1	A

Z9 SOCKET FIXED SOCKET, KEY (G) OR KEYS (A...M AND R), PANEL MOUNT WITH CABLE COLLET



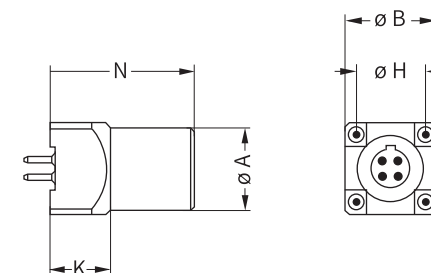
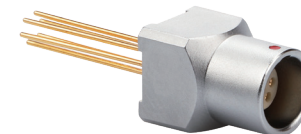
Reference		Dimensions(mm)									Panel cut-outs		
Series	Model	A	B	L	E	M	S1	S2	S3	e	Ws	Ø	Type
0B	Z9	10	12.3	35.5	7	1.2	11	8	8.2	M9*0.6	8.3	9.1	A
1B	Z9	14	16	40.5	7.5	1.5	14	9	10.5	M12*1.0	10.6	12.1	A
2B	Z9	18	19.2	47	8.5	2	17	13	13.5	M15*1.0	13.6	15.1	A
3B	Z9	21	25	56	11.5	2	22	15	16.5	M18*1.0	16.6	18.1	A

Z10 SOCKET FIXED SOCKET, WITH TWO NUTS, KEY (G) OR KEYS (A...M AND R), PANEL MOUNT WITH CABLE COLLET



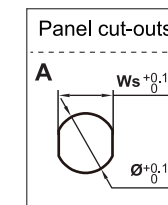
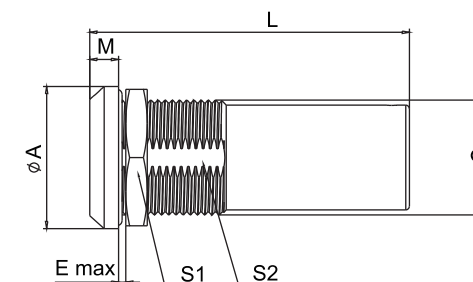
Reference		Dimensions(mm)									Panel cut-outs		
Series	Model	A	B	L	E	M	S1	S2	S3	e	Ws	Ø	Type
0B	Z10	12	12.3	35.5	5	2.5	11	8	8.2	M9*0.6	8.3	9.1	A
1B	Z10	16	16	40.5	5	3.2	14	9	10.5	M12*1.0	10.6	12.1	A
2B	Z10	20	19.2	47	6.5	3.5	17	13	13.5	M15*1.0	13.6	15.1	A
3B	Z10	24	25	56	9	4.5	22	15	16.5	M18*1.0	16.6	18.1	A

Z14 SOCKET SOCKET WITH STRAIGHT CONTACT FOR PCB, KEY(G) OR KEY (A...F)



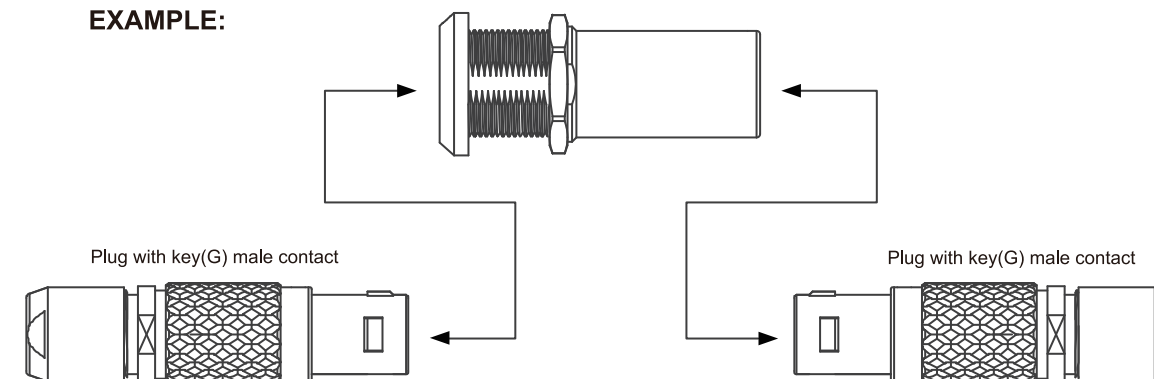
Reference		Dimensions(mm)				
Series	Model	A	K	N	B	H
0B	Z14	9	8	15	10	7.62

Z19插座 FIXED COUPLER, NUT FIXING, KEY (G) AT BOTH ENDS



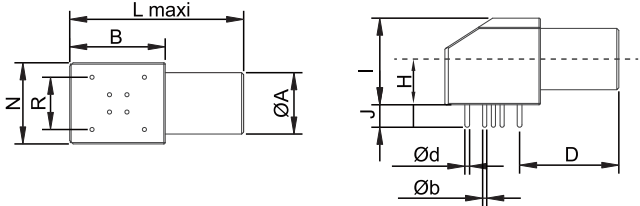
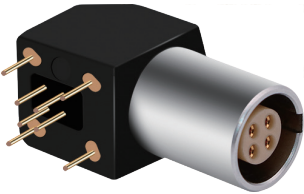
Reference		Contacts	Dimensions(mm)							Panel cut-outs		
Series	Model	type	A	L	M	E	S1	S2	e	Ws	Ø	Type
2B	Z19	female-female	19.8	44.5	4	9	19	15	M16*1.0	15.1	16.1	A

EXAMPLE:



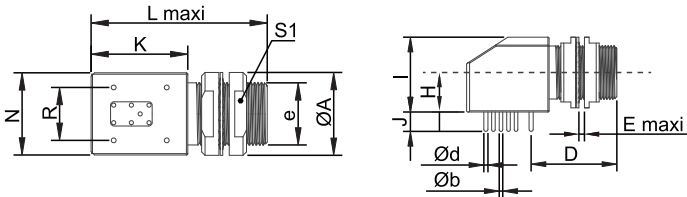
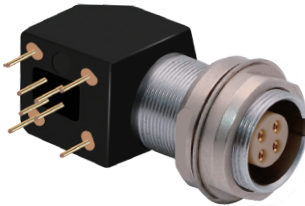
ELBOW SOCKET MODELS

Z11 SOCKET ELBOW (90°) SOCKET FOR PRINTED CIRCUIT, GROUND SOLDER FIXED, KEY (G) OR KEYS (A...M), DIMENSIONS FOR SOLDER SIDE AND CONTACT SIDE AS BELOW

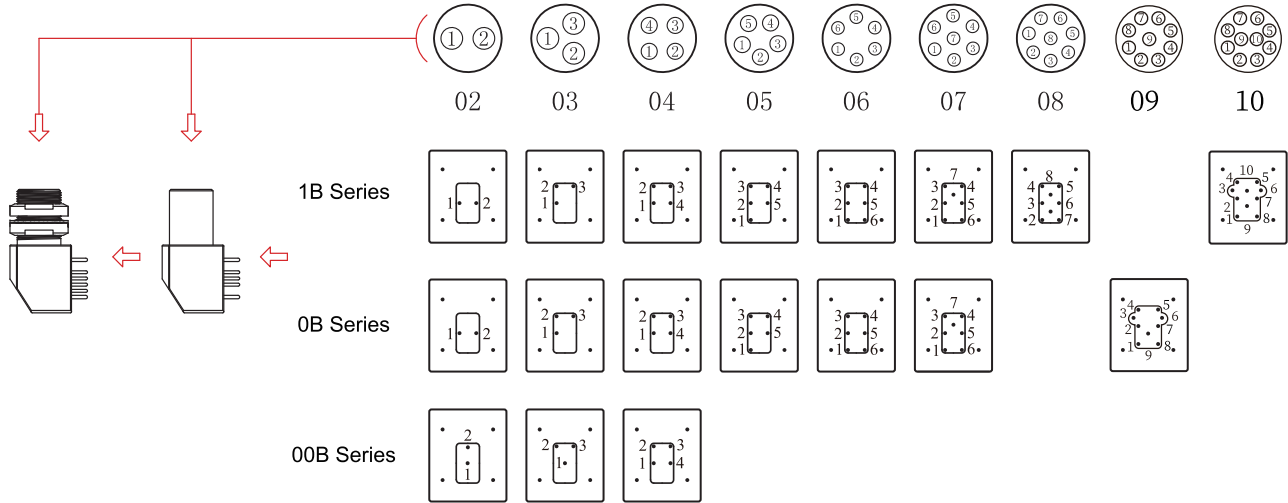


Reference		Dimensions(mm)										
Series	Model	L	B	N	I	H	A	D	d	R	J	b
00B	Z11	18.5	8.9	7.5	7.0	3.5	6.8	11.5	0.7	5.08	5	0.5
0B	Z11	25.5	13.3	11.7	12.7	6.7	9	14.6	0.7	7.62	3	0.6
1B	Z11	26.8	13.3	12.6	14	7.5	11	16.67	0.7	7.62	3	0.6

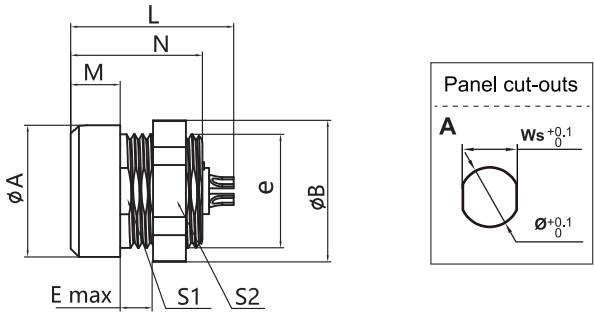
Z12 SOCKET ELBOW (90°) SOCKET FOR PRINTED CIRCUIT, WITH TWO NUTS, KEY (G) OR KEYS (A...M), DIMENSIONS FOR SOLDER SIDE AND CONTACT SIDE AS BELOW



Reference		Dimensions(mm)													
Series	Model	L	K	A	N	R	S1	e	I	H	E	J	D	d	b
0B	Z12	25	13.3	12	11.7	7.62	10	M9*0.6	12.7	6.7	3.5	3	14.6	0.7	0.6
1B	Z12	27	13.3	14	12.6	7.62	13	M11*1.0	14	7.5	5.0	3	16.6	0.7	0.6

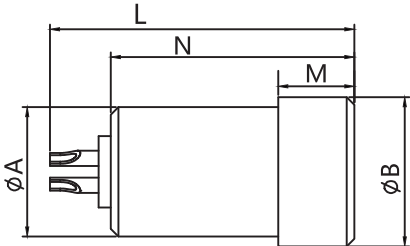


Z22 SOCKET FIXED SOCKET, NUT FIXING,KEY(G) OR KEYS (A...M&R)



Reference		Dimensions(mm)								Panel cut-outs		
Series	Model	A	B	L	M	E	S1	S2	e	Ws	Ø	Type
00B	Z22	8	8.6	9.9	3	2	6.3	8	M7*0.5	6.4	7.1	A

ZX SOCKET FREE SOCKET, WITHOUT CABLE COLLET



Reference		Dimensions(mm)				
Series	Model	A	B	L	M	N
0B	ZX	8.5	9.8	20	5	16

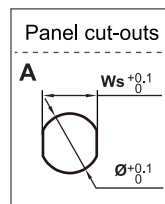
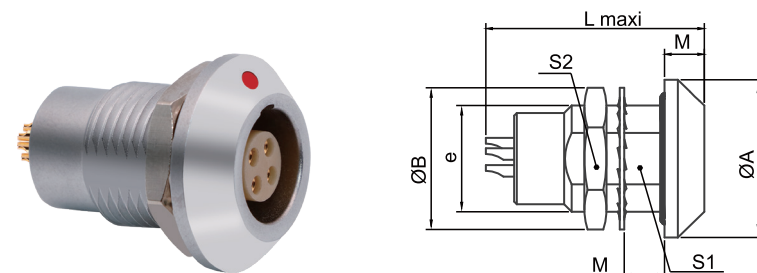
WATERTIGHT OR VACUUMTIGHT MODELS_(watertight when mated)

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]

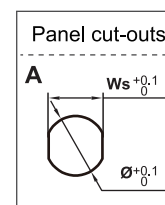
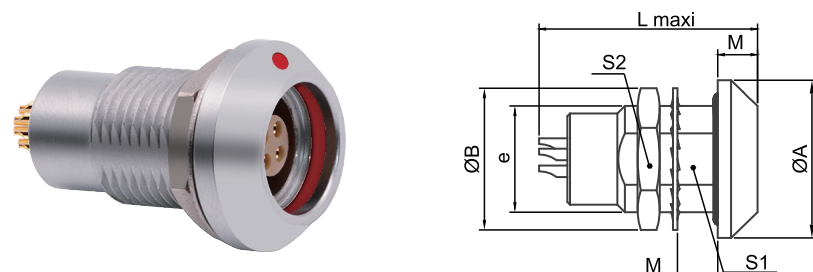
Characteristics	Parameter
Salt spray corrosion test	96hr
Shock resistance	100g,6ms
Endurance	5000 cycles
Protection index(mated)	IP68

Z7 SOCKET FIXED SOCKET, NUT FIXING, FRONT PANEL MOUNT, KEY (G) OR KEYS (A...M AND R)



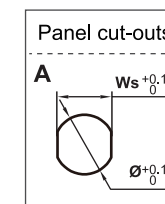
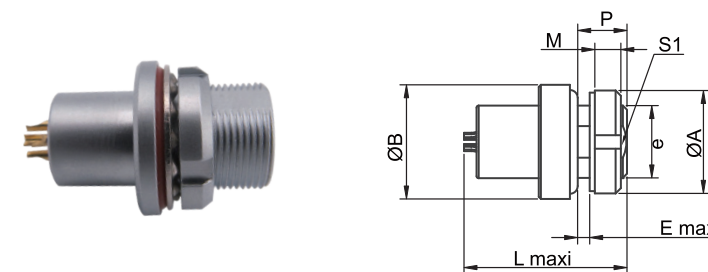
Reference		Dimensions(mm)								Panel cut-outs		
Series	Model	A	B	L	M	E	S1	S2	e	Ws	Ø	Type
00B	Z7	11	10	18	1.5	5.5	6.3	9	M7*0.5	6.4	7.1	A
0B	Z7	13	12.5	20.2	3	5.5	8.2	11	M9*0.6	8.3	9.1	A
1B	Z7	18	16.0	23.2	4.5	6	10.5	14	M12*1.0	10.6	12.1	A
2B	Z7	20	19.2	27.3	4	8	13.5	17	M15*1.0	13.6	15.1	A

Z8 SOCKET FIXED SOCKET, NUT FIXING, FRONT PANEL MOUNT, KEY (G) OR KEYS (A...M AND R)



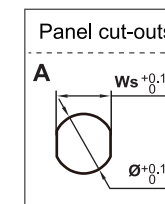
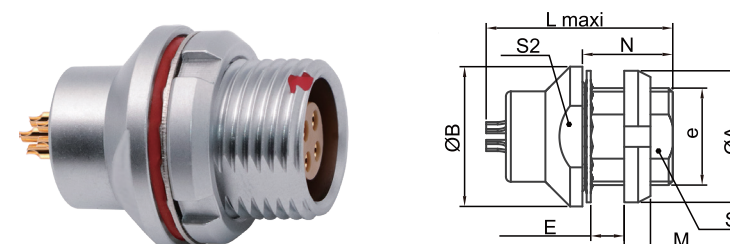
Reference		Dimensions(mm)								Panel cut-outs		
Series	Model	A	B	L	M	E	S1	S2	e	Ws	Ø	Type
1B	Z8	18	16	30.3	5.2	6	10.5	14	M12*1.0	10.6	12.1	A
2B	Z8	22	19.2	29.8	6	8	13.5	17	M15*1.0	13.6	15.1	A
3B	Z8	27	25.4	34	6	12	19	22	M21*1.0	19.1	21.1	A

Z13 SOCKET FIXED SOCKET, NUT FIXING, BACK PANEL MOUNT, KEY (G) OR KEYS (A...M AND R)



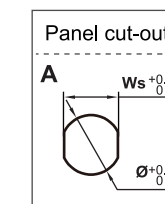
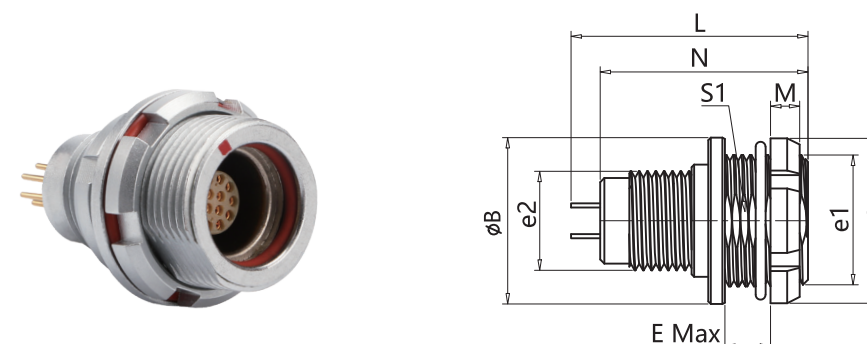
Reference		Dimensions(mm)								Panel cut-outs		
Series	Model	A	B	L	M	E	S1	P	e	Ws	Ø	Type
00B	Z13	10	11	15.7	2.5	2.0	6.3	6.0	M7*0.5	6.4	7.1	A
0B	Z13	12	13	21.7	2.5	5.5	8.2	6.3	M9*0.6	8.3	9.1	A
2B	Z13	20	20	24.8	3.5	5.0	13.5	9.0	M15*1.0	13.6	15.1	A

Z13 SOCKET FIXED SOCKET, NUT FIXING, BACK PANEL MOUNT, KEY (G) OR KEYS (A...M AND R)



Reference		Dimensions(mm)									Panel cut-outs		
Series	Model	A	B	L	E	M	S1	S2	N	e	Ws	Ø	Type
1B	Z13	16	17	24.5	4.3	3.2	10.5	12	11	M12*1.0	10.6	12.1	A

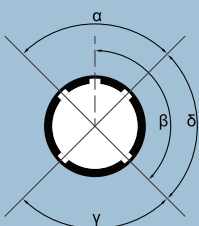
Z20 SOCKET FREE SOCKET, WITHOUT CABLE COLLET

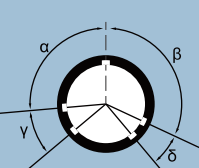


Reference		Dimensions(mm)									Panel cut-outs		
Series	Model	A	B	L	N	M	E	S1	e1	e2	Ws	Ø	Type
1B	Z20	20	20	28.5	25	3.5	5.5	14.5	M16*1.0	M12*1.0	14.6	16.1	A

B series Alignment Key and Polarized Keying System

B SERIES

Front view of a socket 	Ref.	Nb of keys	Angles	Series			Ref.	Nb of keys	Angles	Series			Contact type		Note	
				00	0B	1B				2B	3B	4B	Plug	Socket		
	G	1		0°	0°	0°	G	1		0°	0°	0°	male	female	●	
	A	2	α	30°	30°	30°	A	2	α	30°	30°	30°	male	female	●	
	B	2		60°	60°	60°	B	2		45°	45°	45°	male	female	●	
	C	2		-	90°	90°	C	2		60°	60°	60°	male	female	○	
	D	2	β	-	135°	135°	D	2	γ	95°	95°	95°	male	female	○	
	E	2		-	145°	145°	E	2		β	120°	120°	120°	male	female	○
	F	2		-	155°	155°	F	2			145°	-	145°	male	female	●
	J	2	γ	45°	45°	45°	J	2	α	37.5°	37.5°	37.5°	female	male	○	
	K	2		-	70°	70°	K	2		32.5°	32.5°	32.5°	female	male	○	
	L	2		-	80°	80°	L	2		γ	70°	70°	70°	female	male	○
	M	2	δ	-	110°	-	M	2	-	-	-	-	female	male	●	
Y	3	-	-	-	-	Y	3	β	112.5°	126°	112.5°	male	female	●		
		-	-	-	-			γ	100°	102°	147.5°			●		
I	2	δ	-	-	150°	X	2	β	-	145°	-	male	female	●		

Front view of a socket 	Ref.	Nb of keys	Angles	Series			Ref.	Nb of keys	Angles	Series			Contact type		Note
				00	0B	1B				2B	3B	4B	Plug	Socket	
	R	5	α	-	-	-	R	5	α	-	-	-	male	female	●
			β	-	-	-			β	-	-	-			
				-	-	-				-	-	-			
				-	-	-				-	-	-			