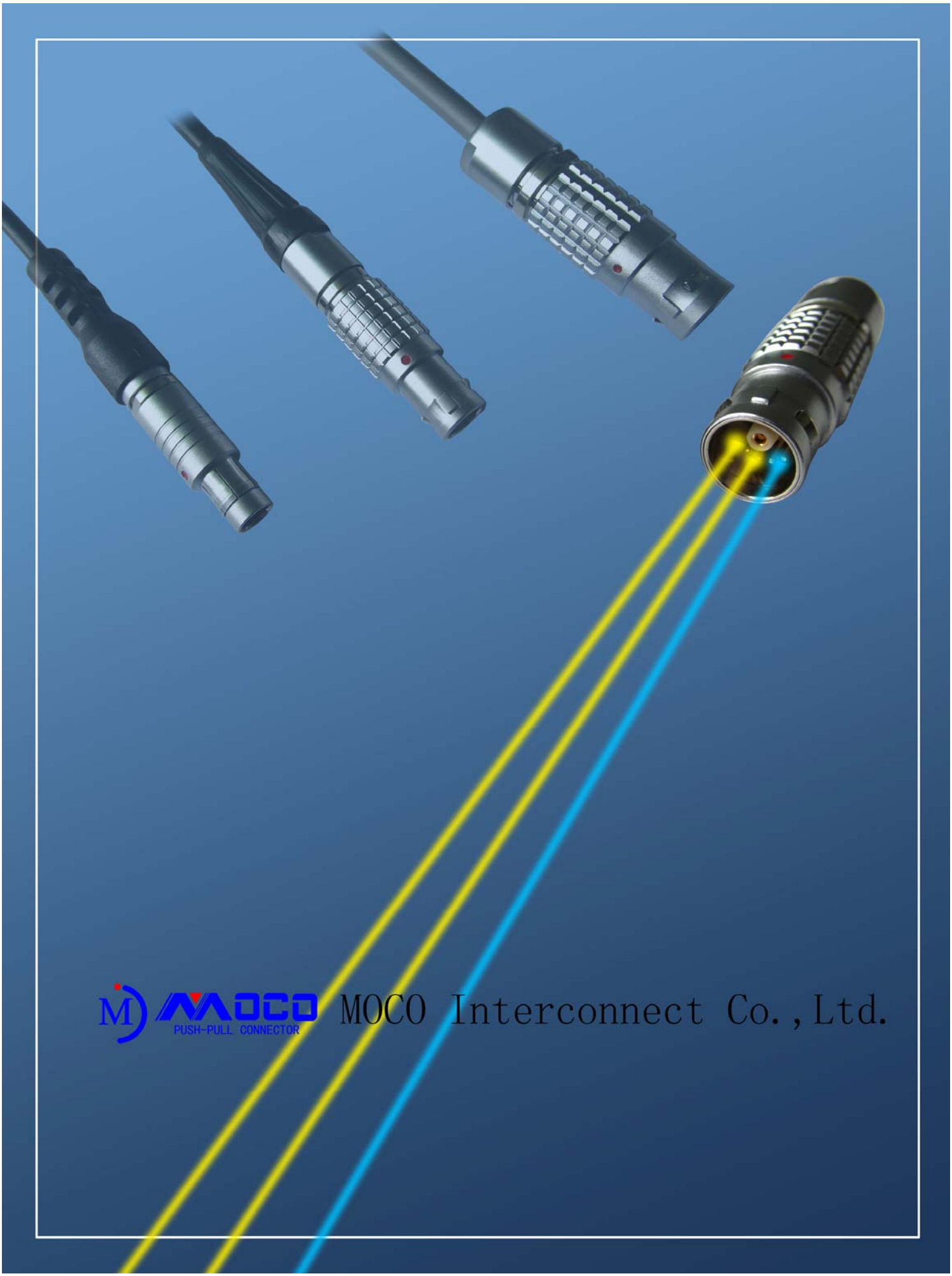


MOCO Circular Push-Pull Connectors

MOCO Interconnect Co., Ltd. 5C of B bldg, Starlight Industrial Park, 6 Fengshengtai Rd., Loucun, Gongming Town, Shenzhen
Tel:86-755-33236562 Fax:86-755-33236563 Email: eric@mococonnectors.com www.mococonnectors.com

About MOCO

MOCO is a high-tech manufacturer specializes in development, design, manufacturing and service of unipole and multipole circular push-pull connectors and cable assemblies. Established by several experienced engineers of connectors and relative fields, MOCO is to serve both old and new, domestic and overseas customers in a better way.

Our products are of high quality and stable performance which are interchangeable with international counterparts, widely used in the fields of measurement, telecommunication, medical, industrial control, audio-video, military, automotive and power etc.

Meanwhile, we design new products according to customers' special requirements, and always do our best!

MOCO's Advantages

High quality well built products
Absolute competitive prices
Real SHORT lead time
Good after-sale service
Green products eco-friendly, RoHS compliant

We look forward to cooperating with you. Contact us today! We will be at your service sincerely!

CONNECT THE WORLD, CONNECT THE FUTURE

CONTENT

Circular Metal Series
B Series(Indoor, keyed)……4
Main Features……...4
Part Numbering System……4
Housing Models……5
Alignment Key……...12

K Series(Outdoor, keyed) ..……13
Main Features..……...13
Part Numbering System…..……13
Housing Models……..……14
Alignment Key……...……16

S Series(Indoor, stepped insert) .....……17
Main Features.....……17
Part Numbering System.....……17
Housing Models.....……18

F Series(Indoor, half-shell keyed) .....……21
Main Features.....……21
Part Numbering System.....……21
Alignment Key.....……...21
Housing Models.....……22

2C Series(Indoor, stepped insert) .....……23
Main Features.....……23
Part Numbering System.....……23
Housing Models.....……24

Circular Plastic Series
P Series (Indoor, keyed).....……25
Main Features.....……25
Part Numbering System.....……25
Housing Models.....……26
Alignment Key.....……..27
Color of collet nut and bend relief.....……27
Cable collet.....……27

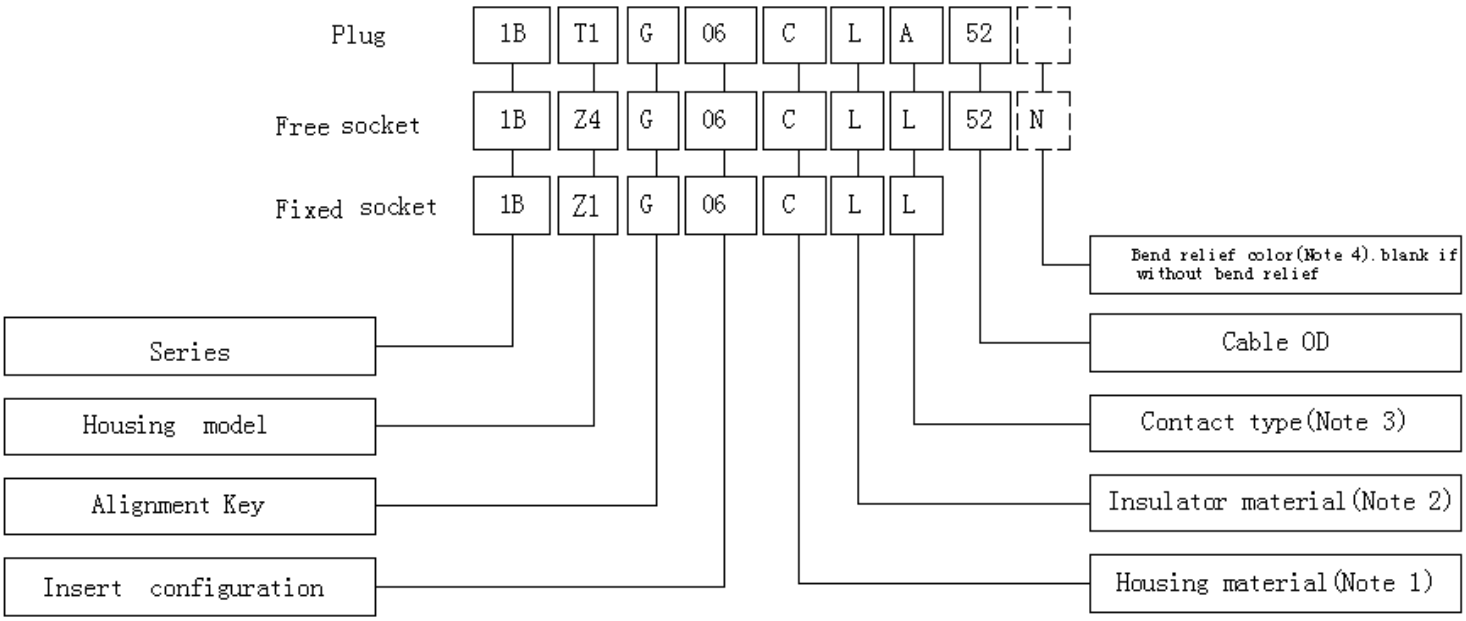
Metal NIBP Connectors.....……27
Insert Configuration.....……28
PCB Drilling Pattern.....……...32
Panel Cut-outs.....……33
Bend relief.....……..…33
Cable Collet.....……34
Assembly Instructions.....……35
Unipole & Coaxial Connectors.....……...37
Cable Assemblies.....……38

B Series

B Series connectors with the following main features:

1、 Security of the push-pull self-latching system;
2、 Multipole types 2 to 26 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 Numbering System:



Note 1：	Note 2：	Note 3：	Note 4：
C=CHROME PLATED BRASS	L=PPS	A=SOLDER MALE	N=BLACK
K=BLACK CHROME PLATED BRASS	T=PTFE	L=SOLDER FEMALE	G=GREY
N=NICKEL PLATED BRASS		N=PRINT FEMALE	A=BLUE
T=STAINLESS STEEL		V=PRINT FEMALE 90°	R=RED
L=ALUMINIUM ALLOY ANODIZED			J=YELLOW
H=ABS/BRASS (ONLY FOR Z11 AND Z12 ELBOW SOCKETS)			V=GREEN

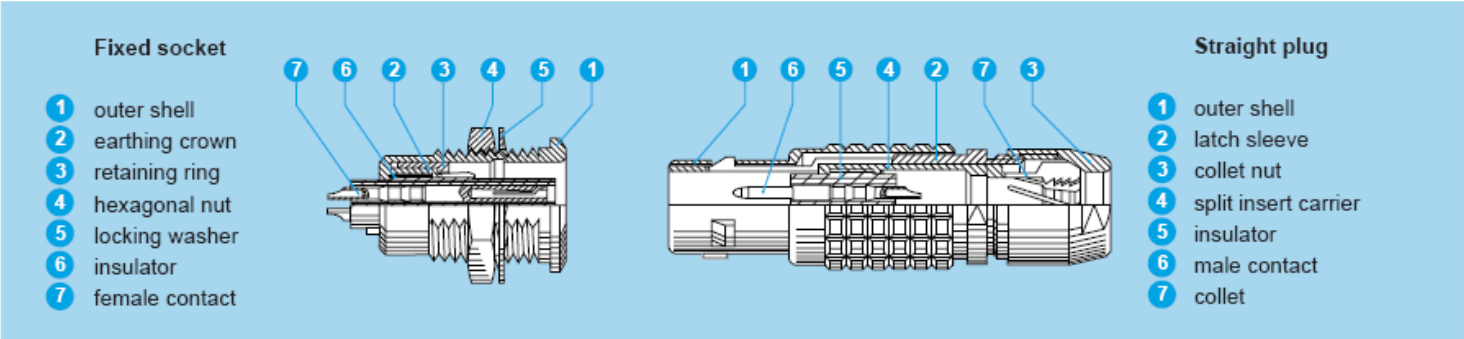
Part Number example:

Straight plug with cable collet：
1BT1G06CLA52=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.

Free socket：
1BZ4G06CLL52N=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, and with a black bend relief.

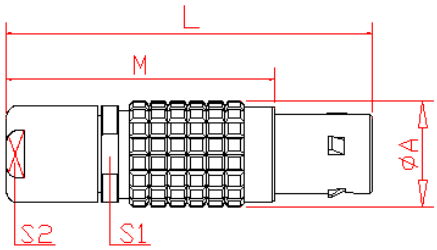
Fixed socket：
1BZ1G06CLL=1B series fixed socket, nut fixing, with key (G), multipole type with 6 contacts, outer shell in chrome plated brass, PPS insulator, solder female contacts.

Part Section Showing Internal Components



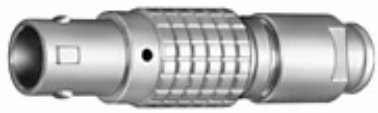
Housing Models

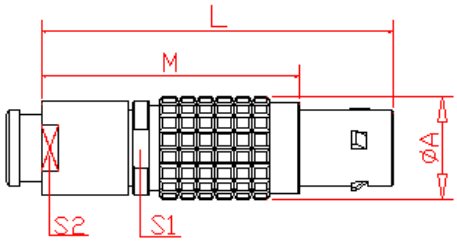
T1 PLUG Standard straight plug, key (G) or keys (A...M and R), cable collet



Reference		Dimensions（mm）				
Series	Model	L	A	M	S2	S1
00	T1	34.5	6.5	19	6	5.5
0B	T1	36	9.5	30	8	8
1B	T1	43	12	34	9	10
2B	T1	50	15	42	13	13
3B	T1	57	18	42	15	16

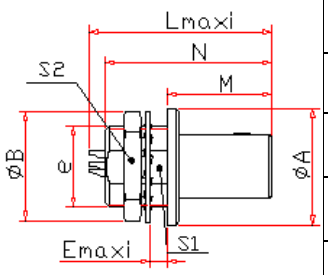
T1 PLUG Standard straight plug, key (G) or keys (A...M and R), cable collet and nut for fitting a band relief





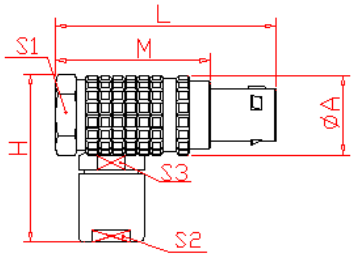
Reference		Dimensions（mm）				
Series	Model	L	A	M	S2	S1
00	T1	34.5	6..4	19	6	5.5
0B	T1	35	9.5	25	8	8
1B	T1	41	12	30	9	10
2B	T1	48	15	36	13	13
3B	T1	57	18	42	15	16

T2 PLUG Fixed plug, non-latching, nut fixing, key (G) or keys (A...M and R)



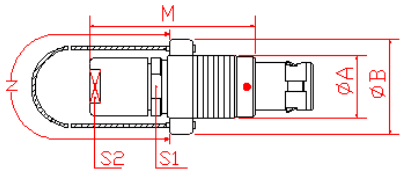
Reference		Dimensions（mm）								
Series	Model	A	B	L	N	M	E	S1	S2	e
00	T2	8	10.2	18.1	15	9	2.9	6.3	9	M7*0.5
0B	T2	10	12.4	20.8	18.4	11.2	4.2	8.2	11	M9*0.5
1B	T2	14	15.8	25.2	22.6	12.5	5.4	10.5	14	M12*1.0
2B	T2	18	19.2	24.7	22.5	13.8	6.0	13.5	17	M15*1.0
3B	T2	22	25	32.1	29.1	17.0	5.8	16.5	22	M18*1.0

T3 PLUG Elbow(90°) plug, key (G) or keys (A...M and R), cable collet



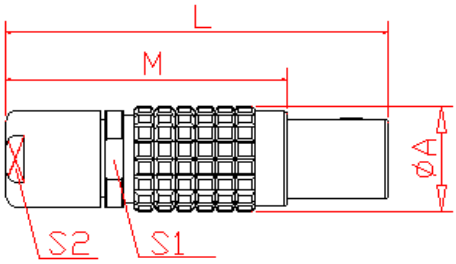
Reference		Dimensions（mm）						
Series	Model	A	L	M	S1	S2	S3	H
0B	T3	11	31.6	21.6	9	8	8	26
1B	T3	13.5	36	25	12	9	10	30.5
2B	T3	16.5	41.5	29.5	15	13	13	34
3B	T3	19	50	35	17	15	15	37

T4 PLUG Straight plug with lanyard for fast demating, key (G) or keys (A...M and R), cable collet



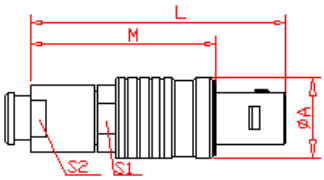
Reference		Dimensions（mm）					
Series	Model	A	B	N	M	S2	S1
0B	T4	9.2	15.8	140	30	8	8
1B	T4	12	18	140	34	9	10
2B	T4	14.6	21	160	42	13	13
3B	T4	18	25	190	42	15	16

T5 PLUG Straight break-apart plug without latching system, key (G) or keys (A...M and R), cable collet



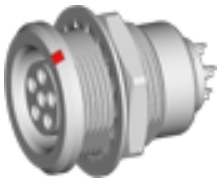
Reference		Dimensions（mm）				
Series	Model	L	A	C	S2	S1
0B	T5	35	9.5	25	8	8
1B	T5	41	12	30	9	10
2B	T5	48	15	36	13	13
3B	T5	57	18	42	15	16

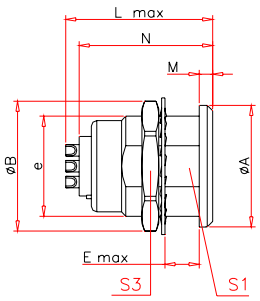
T6 PLUG Sealed straight plug，key (G) or keys (A...M and R), cable collet, front seal and nut for fitting a bend relief (Protection degree IP54 when mated)



Reference		Dimensions（mm）				
Series	Model	A	L	M	S2	S1
0B	T6	11	35	25	8	8
1B	T6	13.5	42	33	9	9
2B	T6	16.5	48	36	13	13
3B	T6	19	56.5	41.5	15	15

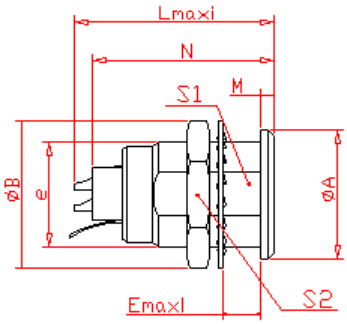
Z1 SOCKET Fixed socket, panel mount, nut fixing, key (G) or keys (A...M and R)





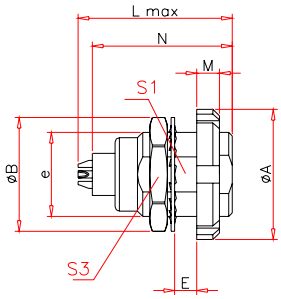
Reference		Dimensions（mm）								
Series	Model	A	B	e	E	L	M	N	S1	S3
00	Z1	8	10.2	M7*0.75	6.0	15.9	1.0	13.7	6.3	9
0B	Z1	10	12.3	M9*0.6	7	21.3	1.2	18	8.2	11
1B	Z1	14	16	M12*1.0	7.5	23.2	1.5	18.7	10.5	14
2B	Z1	18	19.2	M15*1.0	8. 0	24.8	2	20	13.5	17
3B	Z1	21	25	M18*1.0	11	30.7	2	25	16.5	22

Z5 SOCKET Fixed socket with earthing tag, panel mount, nut fixing, key (G) or keys (A...M and R)



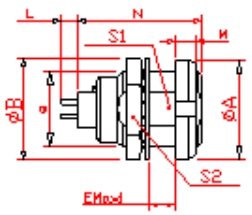
Reference		Dimensions（mm）								
Series	Model	A	B	e	E	M	N	L	S1	S2
00	Z5	8	10.5	M7*0.5	6	1	13.6	15.9	6.3	9
0B	Z5	10	12.3	M9*0.6	7	1.2	18	21.3	8.2	11
1B	Z5	14	16	M12*1.0	7.5	1.5	18.7	23.2	10.5	14
2B	Z5	18	19.2	M15*1.0	8	2	20	24.8	13.5	17
3B	Z5	21	25	M18*1.0	11	2	25	30.7	16.5	22

Z2 SOCKET Fixed socket with two nuts, key (G) or keys (A...M and R)



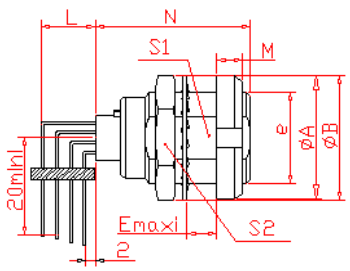
Reference		Dimensions（mm）								
Series	Model	A	B	e	E	L	M	N	S1	S3
00	Z2	10	10.2	M7*0.5	4.3	13.7	2.5	13.7	6.3	9
0B	Z2	12	12.5	M9*0.6	5.5	21.3	2.5	18	8.2	11
1B	Z2	16	16	M12*1.0	6.0	23.2	3.2	18.7	10.5	14
2B	Z2	20	19.5	M15*1.0	6.5	24.8	3.5	20	13.5	17
3B	Z2	24	25	M18*1.0	9	30.7	4.5	25	16.5	22

Z2 SOCKET Fixed socket with two nuts, key (G) or keys (A...M and R) and straight contact for PCB



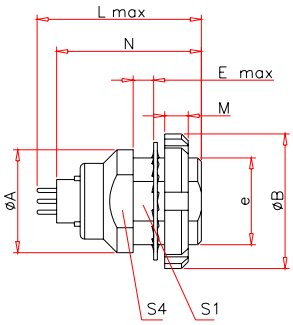
Reference		Dimensions（mm）								
Series	Model	A	B	e	E	L	M	N	S1	S2
0B	Z2	12	12.5	M9*0.6	5.5	4	2.5	18	8.2	11
1B	Z2	16	16	M12*1.0	6.0	4	3.2	18.7	10.5	14
2B	Z2	20	19.5	M15*1.0	6.5	4	3.5	20	13.5	17
3B	Z2	24	25	M18*1.0	9	4.5	4.5	25	16.5	22

Z2 SOCKET Fixed socket with two nuts, key (G) or keys (A...M and R) and elbow(90°)contact for PCB



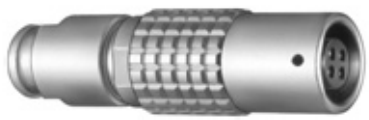
Reference		Dimensions（mm）							
Series	Model	A	B	e	E	M	N	S1	S2
0B	Z2	12	12.5	M9*0.6	2.5	2.5	18	8.2	11
1B	Z2	16	16	M12*1.0	6.0	3.2	18.7	10.5	14
2B	Z2	20	19.2	M15*1.0	6.5	3.5	20	13.5	17
3B	Z2	24	25	M18*1.0	9	4.5	25	16.5	22

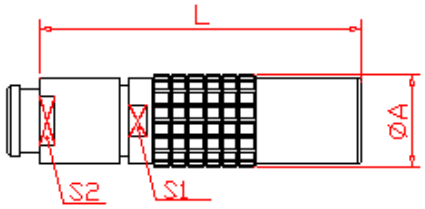
Z3 SOCKET Fixed socket, back panel mount, nut fixing, key (G) or keys (A...M and R)



Reference		Dimensions（mm）								
Series	Model	A	B	e	E	L	M	N	S1	S4
0B	Z3	11	12	M9*0.6	2.5	22	2.5	18	8.2	9
1B	Z3	14	16	M12*1.0	5	24	3.2	18.7	10.5	12
2B	Z3	18	20	M15*1.0	4.5	27.5	3.5	20	13.5	15
3B	Z3	24	25	M18*1.0	9	31	4.5	25	16.5	18

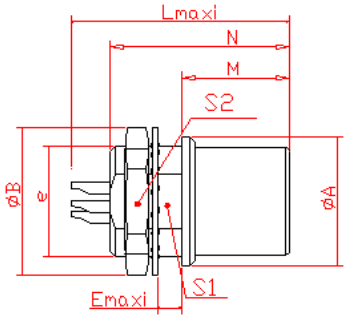
Z4 SOCKET Free socket, cable mount, key (G) or keys (A...M and R), cable collet and nut for fitting a bend relief





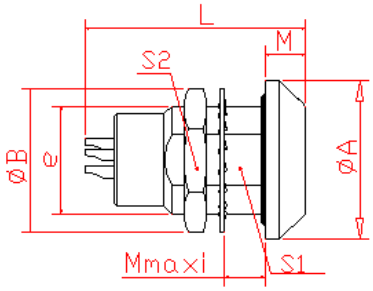
Reference		Dimensions（mm）			
Series	Model	L	A	S1	S2
00	Z4	34	6.8	5.5	6
0B	Z4	34	8.8	8	8
1B	Z4	40	12.5	10	9
2B	Z4	48	14.5	13	13
3B	Z4	55	18	16.5	15

Z6 SOCKET Fixed socket with protruding shell, nut fixing, key (G) or keys (A...M and R)



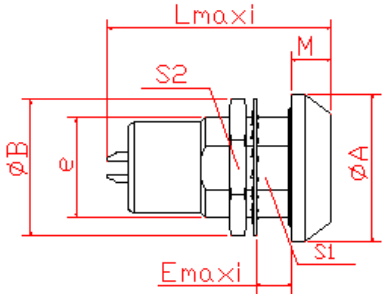
Reference		Dimensions（mm）							
Series	Model	A	B	e	E	M	L	S1	S2
0B	Z6	11	12.3	M9*0.6	2	11	20	8.2	11
1B	Z6	14	16	M12*1.0	4	11.75	19.5	10.5	14
2B	Z6	18	19.2	M15*1.0	5.1	12.5	24	13.5	17

Z7 SOCKET Fixed socket, watertight or vacuum-tight, key (G) or keys (A...M and R)



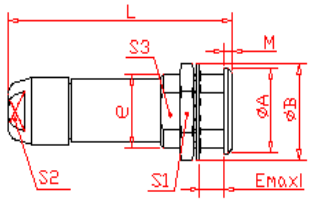
Reference		Dimensions（mm）							
Series	Model	A	B	e	E	M	L	S1	S2
00	Z7	11	10	M7*0.5	6.0	2.5	18.6	6.3	9
0B	Z7	13	12.7	M9*0.5	5.5	3	20.2	8.2	11
1B	Z7	18	15.8	M12*1.0	6	4.5	26.6	10.5	14
2B	Z7	20	19.5	M15*1.0	8	4	24.8	13.5	17

Z8 SOCKET Fixed socket, watertight or vacuum-tight, key (G) or keys (A...M and R) (watertight when mated)



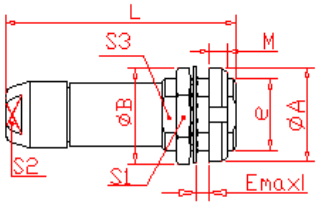
Reference		Dimensions（mm）							
Series	Model	A	B	e	E	M	L	S1	S2
0B	Z8	13	12.7	M9*0.5	5.5	4.8	23.2	8.2	11
1B	Z8	18	15.8	M12*1.0	6	5.2	30.3	10.5	14
2B	Z8	22	19.5	M15*1.0	8	6	35.6	13.5	17

Z9 SOCKET Fixed socket, panel mount with cable collet, key (G) or keys (A...M and R)



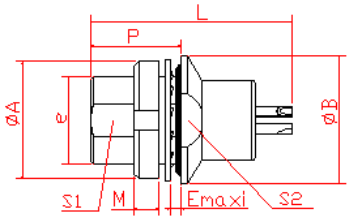
Reference		Dimensions（mm）								
Series	Model	A	B	M	S1	S2	E	S3	L	e
0B	Z9	10	12.3	1.2	11	8	7	8.2	35.5	M9*0.5
1B	Z9	14	16	1.5	14	9	7.5	10.5	40.5	M12*1.0
2B	Z9	18	19.2	2	17	13	8.5	13.5	47	M15*1.0
3B	Z9	21	25	2	22	15	11.5	16.5	56	M18*1.0

Z10 SOCKET Fixed socket, with two nuts, panel mount with cable collet, key (G) or keys (A...M and R)



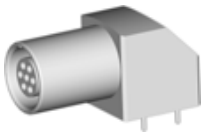
Reference		Dimensions（mm）								
Series	Model	A	B	M	E	S1	S2	S3	L	e
0B	Z10	12	12.3	2.5	5	11	8	8.2	35.5	M9*0.5
1B	Z10	16	16	3.2	5	14	9	10.5	40.5	M12*1.0
2B	Z10	20	19.2	3.5	6.5	17	13	13.5	47	M15*1.0
3B	Z10	24	25	4.5	9	22	15	16.5	56	M18*1.0

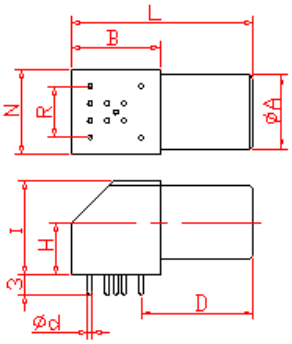
Z13 SOCKET Fixed socket, watertight or vacuum-tight, back panel mount, key (G) or keys (A...M and R)



Reference		Dimensions（mm）								
Series	Model	A	B	M	E	S1	S2	P	L	e
0B	Z13	12	12..9	2.5	5	8.2	-	9	21.5	M9*0.5
1B	Z13	16	18	3.2	5	10.5	-	11	27	M12*1.0
2B	Z13	20	20	3.5	4.5	15	13.5	9.6	28.5	M15*1.0

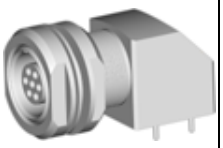
Z11 SOCKET Elbow(90°)socket for printed circuit, key (G) or keys (A...M and R)

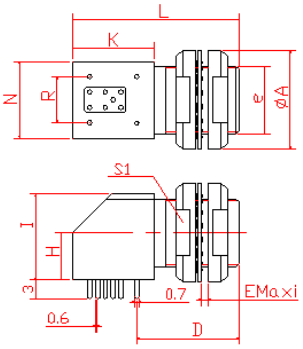




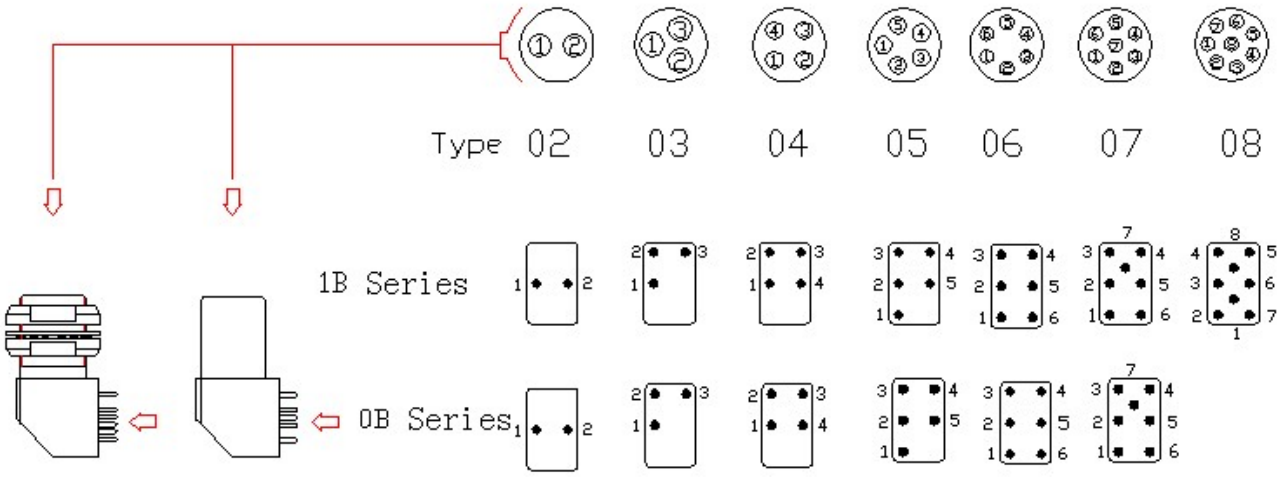
Reference		Dimensions（mm）								
Series	Model	L	B	C	I	H	A	D	d	
0B	Z11	25	13.3	11.7	12.7	6.7	12	14.6	0.7	
1B	Z11	27	13.3	12.6	14	7.5	14	16.6	0.7	

Z12 SOCKET Elbow(90°)socket for printed circuit with two nuts, key (G) or keys (A...M and R)





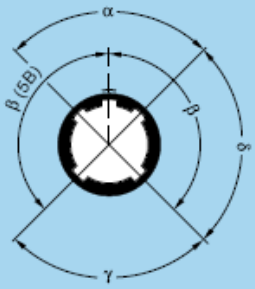
Reference		Dimensions（mm）								
Series	Model	L	K	e	N	I	H	A	E	S1
0B	Z12	25	13.3	M9*0.5	11.7	12.7	6.7	12	3.5	10.5
1B	Z12	27	13.3	M11*0.5	12.6	14	7.5	14	5.0	12



Alignment Key (B series)

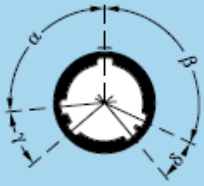
Alignment Key and Polarized Keying System

Front view of a socket



Reference	Nb of keys	Angles	Series 00	Series 0B	Series 1B	Reference	Nb of keys	Angles	Series 2B	Series 3B	Series 4B	Series 5B	Contact type Plug	Contact type Socket
G	1		0°	0°	0°	G	1		0°	0°	0°	0°	male	female
A	2	α	30°	30°	30°	A	2	α	30°	30°	30°	30°	male	female
B	2		60°	60°	60°	B	2		45°	45°	45°	45°	male	female
C	2		–	90°	90°	C	2		60°	60°	60°	60°	male	female
D	2	β	–	135°	135°	D	2	γ	95°	95°	95°	95°	male	female
E	2		–	145°	145°	E	2	β	120°	120°	120°	120°	male	female
F	2		–	155°	155°	F	2		145°	145°	145°	145°	male	female
J	2	γ	45°	45°	45°	J	2	α	37.5°	37.5°	37.5°	37.5°	female	male
K	2		–	70°	70°	K	2		52.5°	52.5°	52.5°	52.5°	female	male
L	2		–	80°	80°	L	2	γ	70°	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°	–		

Front view of a socket



Reference	Nb of keys	Angles	Series 00	Series 0B	Series 1B	Reference	Nb of keys	Angles	Series 2B	Series 3B	Series 4B	Series 5B	Contact type Plug	Contact type Socket
R	5	α	–	–	–	R	5	α	–	–	–	95°	male	female
		β	–	–	–			β	–	–	–	115°		
		γ	–	–	–			γ	–	–	–	20°		
		δ	–	–	–			δ	–	–	–	30°		

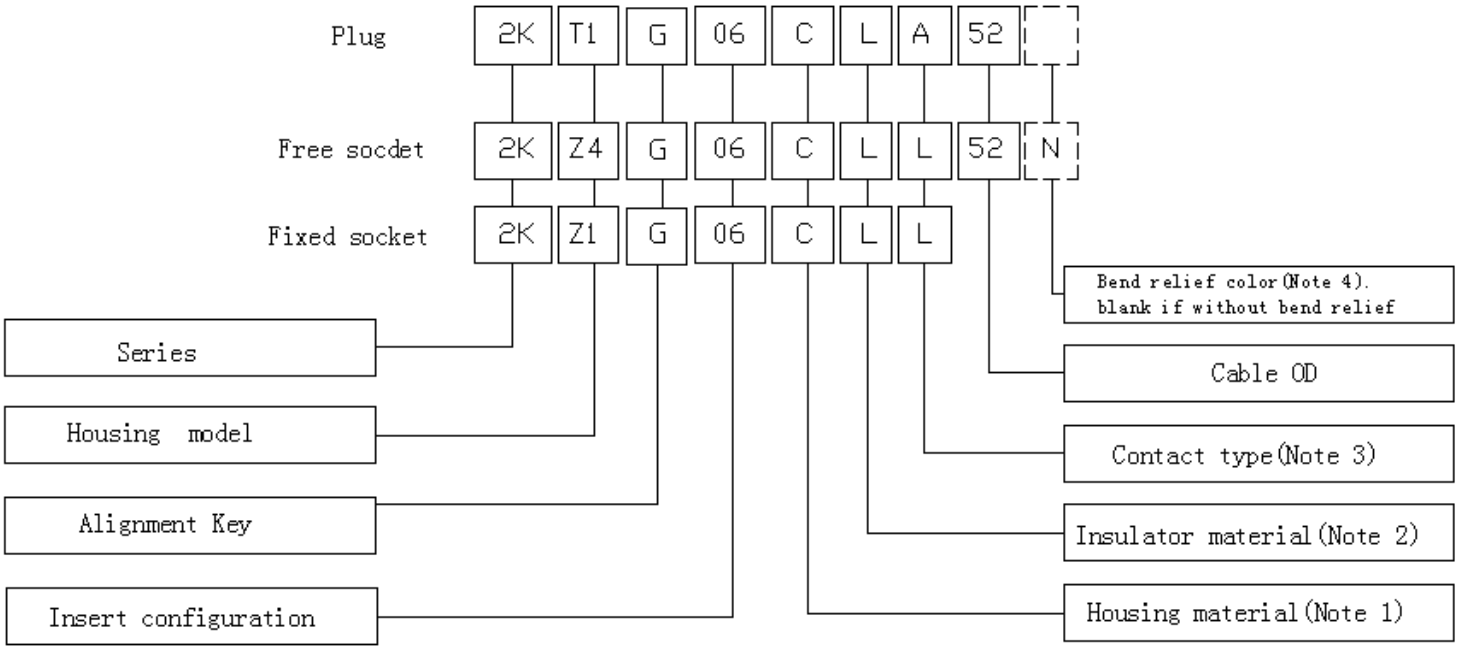
K Series

K series connectors are designed for out door applications. All models of this series are watertight when mated to give a protection degree IP68 when correctly assembled to an appropriate cable(otherwise IP66).

K series connectors have the same insulators as B series and have the following main features:

1、 Security of the push-pull self-latching system;
2、 Watertight connection（IP66-68）;
3、 Multipole types 2 to 26 contacts;
4、 Solder or PCB contacts(Straight or elbow);
5、 Keying system(G key standard) for connector alignment;
6、 Multiple key options to avoid cross mating of similar connectors;
7、 360°screening for full EMC shielding.
8、 High packing density for space saving;
9、 Rugged housing for extreme working conditions.

Part Numbering System:



Note 1：	Note 2：	Note 3：	Note 4：
C=CHROME PLATED BRASS	L=PPS	A=SOLDER MALE	N=BLACK
K=BLACK CHROME PLATED BRASS	T=PTFE	L=SOLDER FEMALE	G=GREY
N=NICKEL PLATED BRASS		N=PRINT FEMALE	A=BLUE
T=STAINLESS STEEL		V=PRINT FEMALE 90°	R=RED
L=ALUMINIUM ALLOY ANODIZED			J=YELLOW
			V=GREEN

Part Number example:

Straight plug with cable collet

2KT1G06CLA52=2K 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.

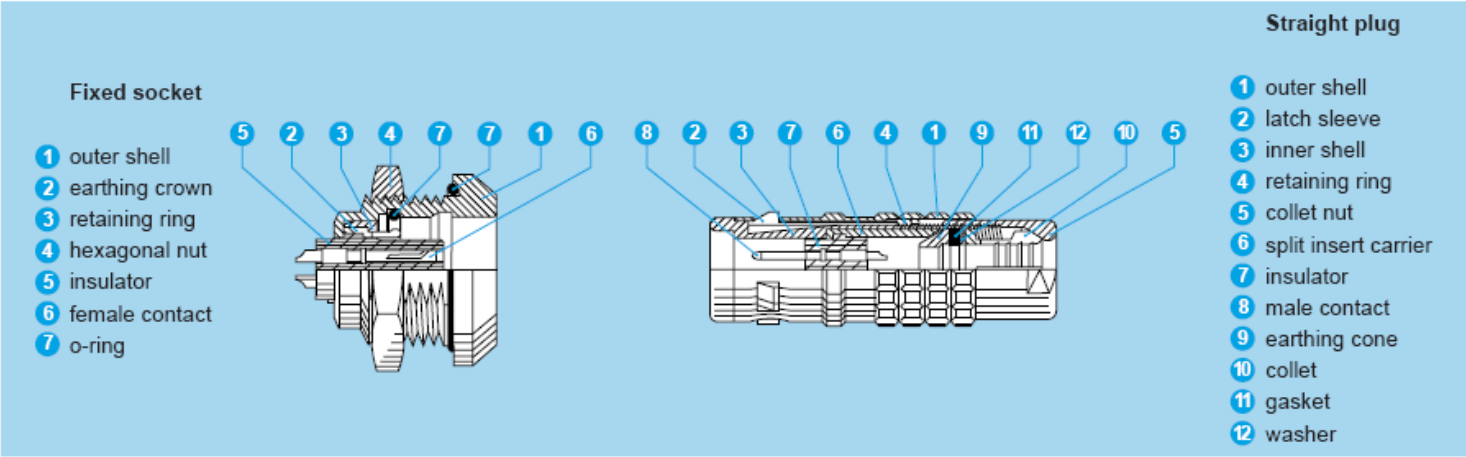
Free socket

2KZ4G06CLL52N=2K 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, and with a black bend relief.

Fixed socket

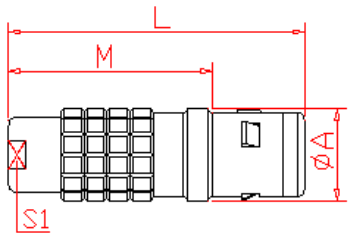
2KZ1G06CLL=2K series fixed socket, nut fixing, with key (G), multipole type with 6 contacts, outer shell in chrome plated brass, PPS insulator, solder female contacts.

Part Section Showing Internal Components



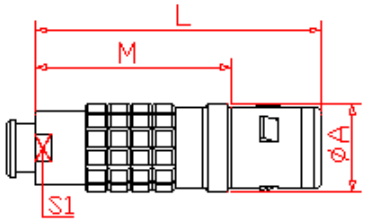
Housing Models

T1 PLUG Straight plug, watertight, key (G) or keys (A to F, L and R), cable collet



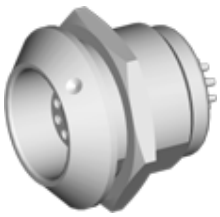
Reference		Dimensions(mm)			
Series	Model	A	L	M	S1
0K	T1	11	37.5	26.5	8
1K	T1	13	44	29	10
2K	T1	16	50	34	13
3K	T1	19	60	40	15

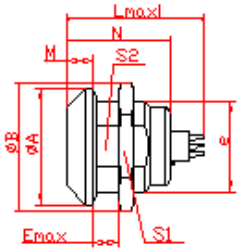
T1 PLUG Straight plug, watertight, key (G) or keys (A to F, L and R), cable collet and nut for fitting a bend relief



Reference		Dimensions（mm）			
Series	Model	A	L	M	S1
0K	T1	11	37.5	26.5	8
1K	T1	13	44	29	9
2K	T1	16	50	34	13
3K	T1	19	60	40	15

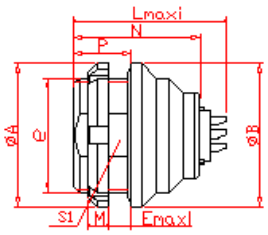
Z1 SOCKET Fixed socket, watertight, nut fixing, panel mount, key (G) or keys (A to F, L and R)





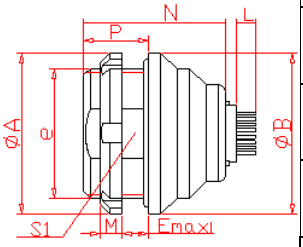
Reference		Dimensions（mm）								
Series	Model	A	B	e	E	L	M	N	S2	S1
0K	Z1	18	19.7	M14*1.0	4.5	21.3	4	19	12.5	17
1K	Z1	20	22	M16*1.0	7.5	27.8	4.5	24	14.5	19
2K	Z1	25	28	M20*1.0	8. 0	29	5	24	18.5	24
3K	Z1	31	34	M24*1.0	11	36.2	6	33.6	22.5	30

Z3 SOCKET Fixed socket, watertight, nut fixing, back panel mount, key (G) or keys (A to F, L and R)



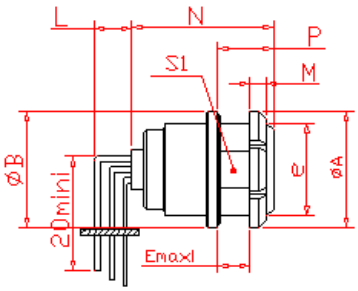
Reference		Dimensions（mm）								
Series	Model	A	B	e	E	L	M	N	S1	P
0K	Z3	18	18	M9*0.6	5.5	22	2.5	19	12.5	7
1K	Z3	20	20	M12*1.0	6.0	27.8	3	24	14.5	10
2K	Z3	25	28	M15*1.0	5.5	29	3.5	23.8	18.5	10

Z3 SOCKET Fixed socket, watertight, nut fixing, back panel mount, key (G) or keys (A to F, L and R) with straight contacts for PCB



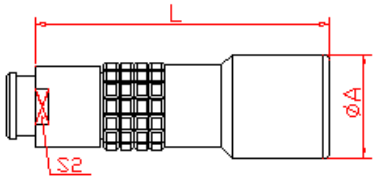
Reference		Dimensions（mm）							
Series	Model	A	B	e	E	M	N	S1	P
0K	Z3	18	18	M9*0.6	5.5	2.5	19	12.5	7
1K	Z3	20	20	M12*1.0	6.0	3	24	14.5	10
2K	Z3	25	28	M15*1.0	5.5	3.5	23.8	18.5	10

Z3 SOCKET Fixed socket, watertight, nut fixing, back panel mount, key (G) or keys (A to F, L and R) with elbow(90°) contacts for PCB



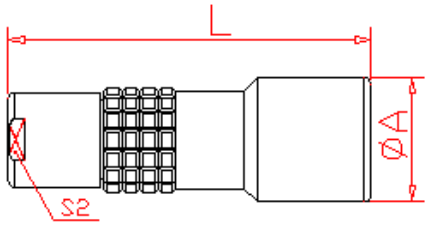
Reference		Dimensions（mm）							
Series	Model	A	B	e	E	P	M	N	S1
0K	Z3	18	18	M14*1.0	3.4	7	3.5.	19.3	12.5
1K	Z3	20	20	M16*1.0	6.2	10	3.5	24.3	14.5
2K	Z3	25	25	M20*1.0	5.0	10	3.5	26.6	18.5

Z4 SOCKET Free socket, watertight, cable mount, key (G) or keys (A to F, L and R), cable collet and nut for fitting a bend relief



Reference		Dimensions（mm）		
Series	Model	L	A	S2
0K	Z4	34	13	8
1K	Z4	45	15	9
2K	Z4	53	19	13
3K	Z4	65	23	15

Z4 SOCKET Free socket, watertight, cable mount, key (G) or keys (A to F, L and R), cable collet

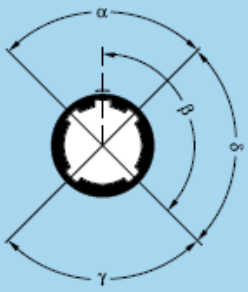


Reference		Dimensions（mm）		
Series	Model	L	A	S2
0K	Z4	34	13	8
1K	Z4	45	15	9
2K	Z4	53	19	13
3K	Z4	65	23	15

Alignment Key (K series)

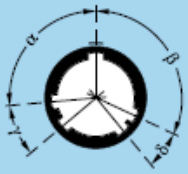
Alignment Key and Polarized Keying System

Front view of a socket



Reference	Nb of keys	Angles	Series						Contact type	
			0K	1K	2K	3K	4K	5K	Plug	Socket
G	1		0°	0°	0°	0°	0°	0°	male	female
A	2	α	30°	30°	30°	30°	30°	30°	male	female
B	2		45°	45°	45°	45°	45°	45°	male	female
C	2		60°	60°	60°	60°	60°	60°	male	female
D	2	γ	95°	95°	95°	95°	95°	95°	male	female
E	2	β	120°	120°	120°	120°	120°	120°	male	female
F	2		145°	145°	145°	145°	145°	145°	male	female
L	2	γ	75°	75°	75°	75°	75°	75°	female	male

Front view of a socket



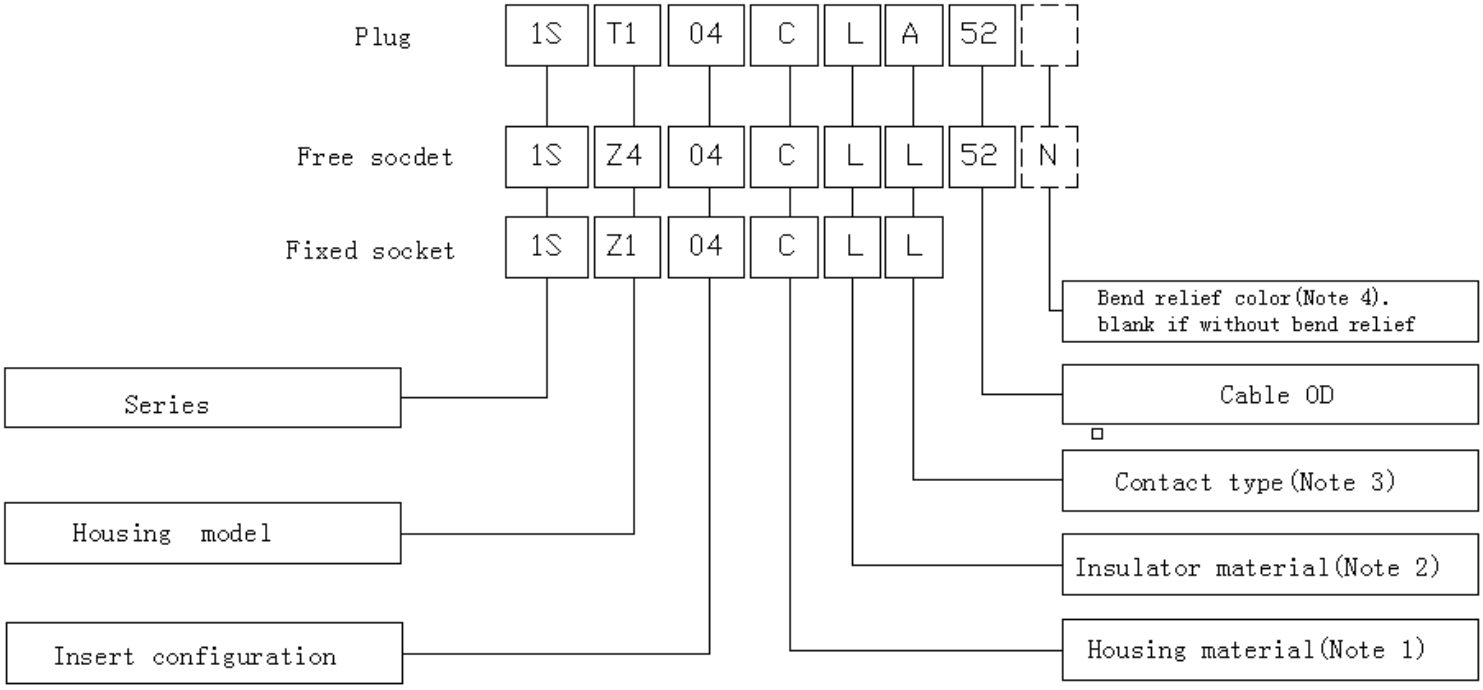
Reference	Nb of keys	Angles	Series						Contact type	
			0K	1K	2K	3K	4K	5K	Plug	Socket
R	5	α	–	–	–	95°	–	–	male	female
		β	–	–	–	115°	–	–		
		γ	–	–	–	35°	–	–		
		δ	–	–	–	25°	–	–		

S Series

S series connectors with following main features:

1、 Security of the push-pull self-latching system;
2、 Solder or PCB contacts(Straight or elbow);
3、 High packing density for space saving;
4、 Polarization by stepped insert(half-moon) fitted with male and female contacts
5、 360°screening for full EMC shielding.

Part Numbering System:



Note 1:	Note 2:	Note 3:	Note 4:
C=CHROME PLATED BRASS	L=PPS	A=SOLDER MALE	N=BLACK
K=BLACK CHROME PLATED BRASS	T=PTFE	L=SOLDER FEMALE	G=GREY
N=NICKEL PLATED BRASS		N=PRINT FEMALE	A=BLUE
T=STAINLESS STEEL		V=PRINT FEMALE 90°	R=RED
L=ALUMINIUM ALLOY ANODIZED			J=YELLOW
H=ABS/BRASS (ONLY FOR Z11 AND Z12 ELBOW SOCKETS)			V=GREEN

Part Number example:

Straight plug with cable collet

1ST104CLA52=1S series straight plug with cable collet, multipole type with 4 contacts, outer shell in chrome plated brass, PPS insulator, 2 male and 2 female solder contacts, collet for 5.0mm diameter cable.

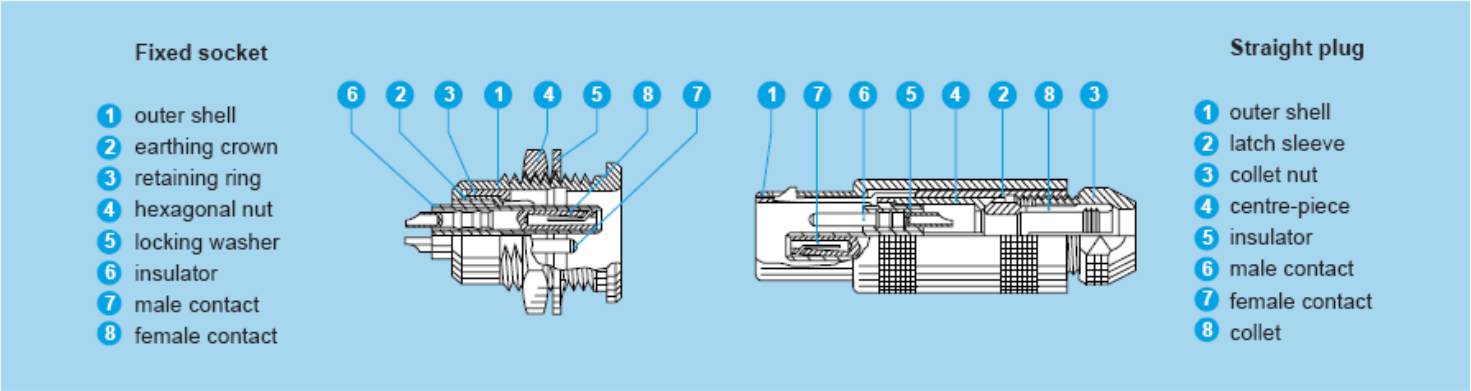
Free socket

1SZ404CL52N=1S series free socket with cable collet, multipole type with 4 contacts, outer shell in chrome plated brass, PPS insulator, 2 male and 2 female solder contacts, collet for 5.0mm diameter cable and with a black bend relief.

Fixed socket

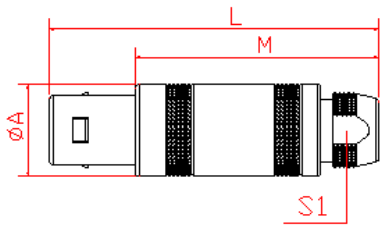
1SZ104CLL= 1S series fixed socket, nut fixing, multipole type with 4 contacts, outer shell in chrome plated brass, PPS insulator, 2 male and 2 female solder contacts.

Part Section Showing Internal Components



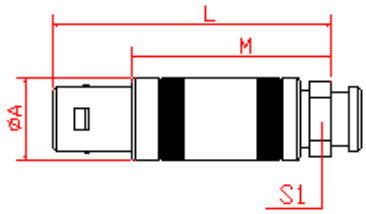
Housing Models

T1 PLUG Straight plug, with cable collet



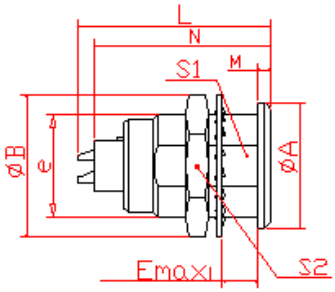
Reference		Dimensions（mm）			
Series	Model	A	L	M	S1
0S	T1	8.8	34.5	24.5	6.5
1S	T1	11.8	42.5	31.5	8.5
2S	T1	14.8	52	40	11

T1 PLUG Straight plug, with cable collet and nut for fitting a bend relief



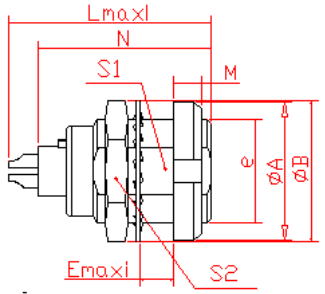
Reference		Dimensions（mm）			
Series	Model	A	L	M	S1
00	T1	6.4	26	18	6
0S	T 1	8.8	34.5	24.5	7.3
1S	T 1	11.8	39.5	28.5	9
2S	T 1	14.8	52	40	11

Z1 SOCKET Fixed socket, nut fixing



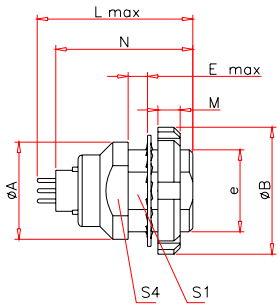
Reference		Dimensions								
Series	Model	A	B	e	E	L	M	N	S1	S2
0S	Z1	10	12.3	M9*0.6	5.5	19	1.2	17	8.2	11
1S	Z1	14	16	M12*1.0	6.0	20.3	1.5	17.8	10.5	14
2S	Z1	18	19.2	M15*1.0	6.5	24.8	2	24	13.5	17

Z2 SOCKET Fixed socket, with two nuts



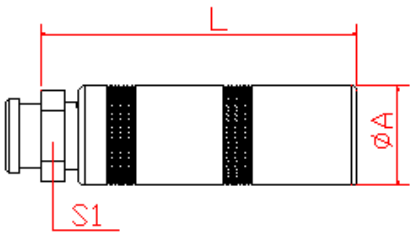
Reference		Dimensions								
Series	Model	A	B	e	E	L	M	N	S1	S2
0S	Z2	10	12.3	M9*0.6	5.5	19	1.2	17	8.2	11
1S	Z2	14	16	M12*1.0	6.0	20.3	1.5	17.8	10.5	14
2S	Z2	18	19.2	M15*1.0	6.5	24.8	2	24.5	13.5	17

Z3 SOCKET Fixed socket, nut fixing, back panel mount



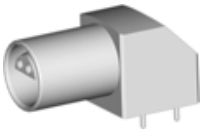
Reference		Dimensions（mm）								
Series	Model	A	B	e	E	L	M	N	S1	S4
0S	Z3	12	12.5	M9*0.6	5.5	19	2.5	17	8.2	11
1S	Z3	16	16	M12*1.0	6.0	20.3	3.2	17.8	10.5	14
2S	Z3	20	19.5	M15*1.0	6.5	24.8	3.5	24	13.5	17

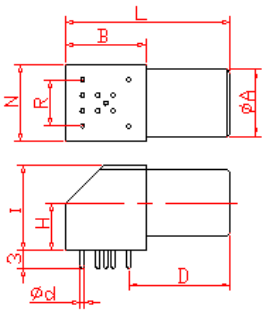
Z4 SOCKET Free socket, cable mount, with cable collet and nut for fitting a bend relief



Reference		Dimensions（mm）		
Series	Model	L	A	S1
0S	Z4	34	9.5	7
1S	Z4	40	12.5	9
2S	Z4	46	16.5	12

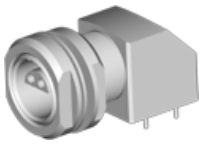
Z11 SOCKET Elbow(90°)socket for printed circuit

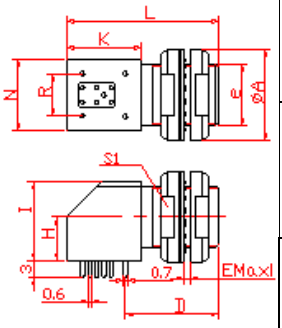




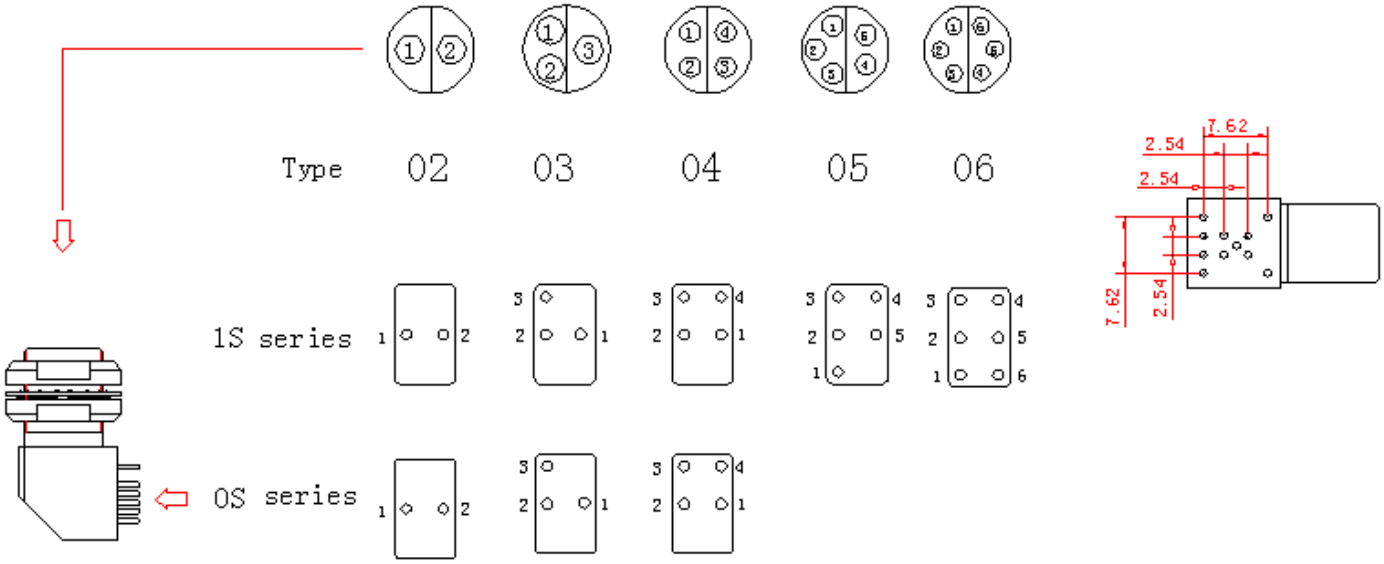
Reference	Dimensions（mm）									
Series	Model	A	B	C	D	E	F	M	d	
0S	Z11	25	13.3	11.7	12.7	6.7	12	14.6	0.7	
1S	Z11	27	13.3	12.6	14	7.5	14	16.6	0.7	

Z12 SOCKET Elbow(90°)socket for printed circuit with two nuts





Reference		Dimensions（mm）								
Series	Model	A	B	e	C	D	E	F	M	S1
0S	Z12	25	13.3	M9*0.5	11.7	12.7	6.7	12	14.6	10.5
1S	Z12	27	13.3	M11*0.5	12.6	14	7.5	14	16.6	12

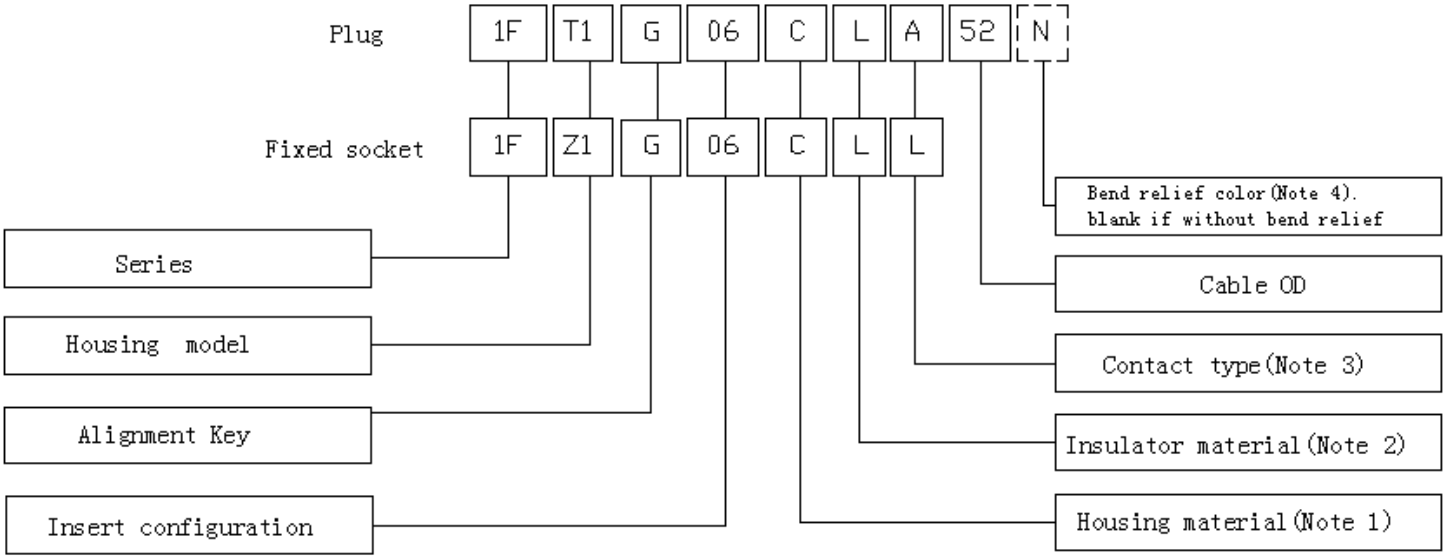


F Series

F series connectors with the following main features:

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

Part Numbering System:



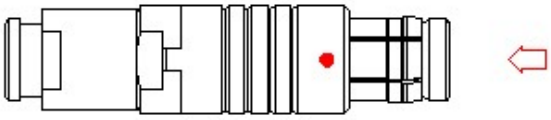
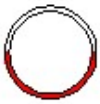
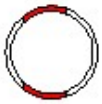
Note 1:
C=CHROME PLATED BRASS
K=BLACK CHROME PLATED BRASS
N=NICKEL PLATED BRASS
T=STAINLESS STEEL

Note 2:
L=PPS
T=PTFE

Note 3:
A=SOLDER MALE
L=SOLDER FEMALE
N=PRINT FEMALE
V=PRINT FEMALE 90°

Note 4:
N=BLACK
G=GREY
A=BLUE
R=RED
J=YELLOW
V=GREEN

Alignment Key

Key of plug	Diagram	
	Single half-shell 	Daul half-shlls 
Key code	G	A

Part Number example:

Straight plug with cable collet

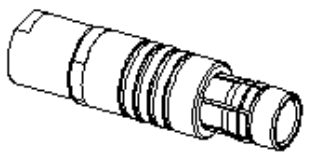
0FT1G06CLA52=0F series straight plug with single half-shell key(G) and cable collet, multipole type with 6 contacts, outer shell in chrome plated brass, PPS insulator, solder male contacts, collet for 5.0mm diameter cable.

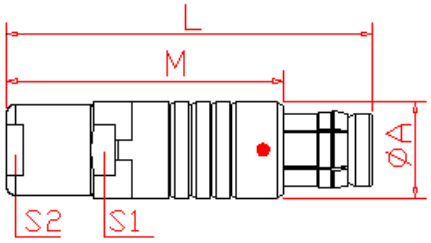
Fixed socket

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.

Housing Models

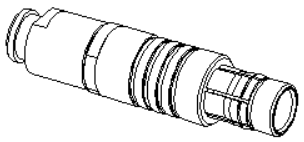
T1 PLUG Straight plug, with half-shell key (G or A), cable collet

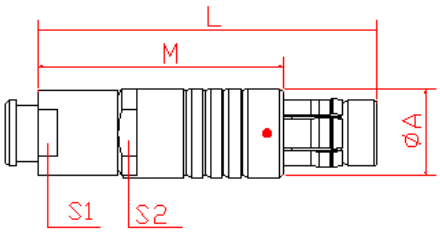




Reference		Dimensions（mm）				
Series	Model	L	A	M	S2	S1
0F	T1	38	9.5	29	8	8
1F	T1	48	12	38	10	9
2F	T1	54	15	41.5	13	13

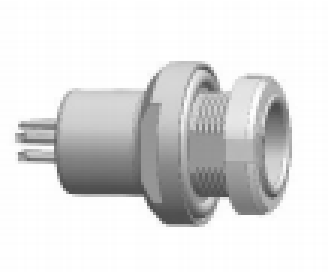
T1 PLUG Straight plug, with half-shell key (G or A), cable collet and nut for fitting a bend relief



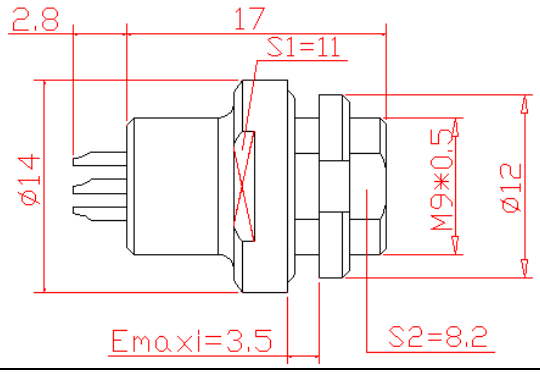


Reference		Dimensions（mm）				
Series	Model	L	A	M	S2	S1
0F	T1	36	9.5	26	8	8
1F	T1	45	12	34	10	9
2F	T1	54	15	41.5	13	13

Z13 SOCKET Fixed socket, vacuum-tight, back panel mount, with half-shell key (G or A)

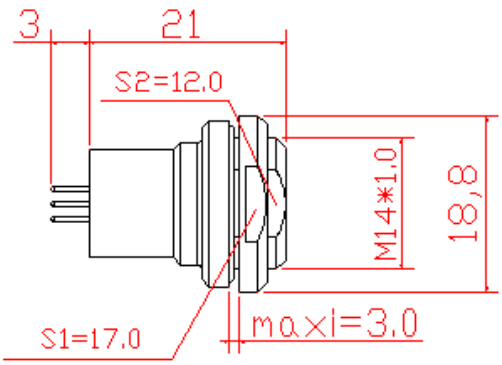


Reference		Dimensions（mm）
Series	Model	
0F	Z13	



Z13 SOCKET Fixed socket, vacuum-tight, back panel mount, with half-shell key(G or A)

Reference		Dimensions（mm）
Series	Model	
1F	Z13	

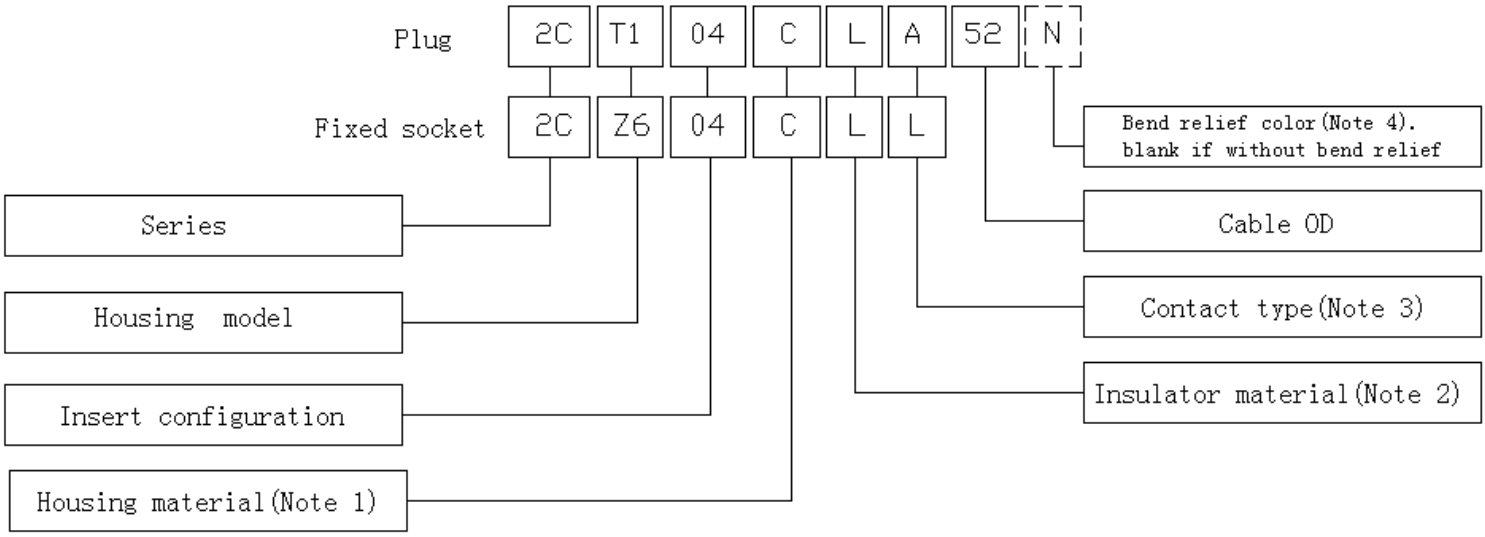


2C Series

2C series connectors with the following main features:

1、 Security of the push-pull self-latching system;
2、 Multipole type 2 to 12 contacts;
3、 Shortened dimensions with high packing density for space saving;
4、 360°screening for full EMC shielding.
5、 Polarization by stepped insert(half-moon) fitted with male and female contacts

Part Numbering System:



Note 1:
C=CHROME PLATED BRASS
K=BLACK CHROME PLATED BRASS
N=NICKEL PLATED BRASS
T=STAINLESS STEEL

Note 2:
L=PPS
T=PTFE

Note 3:
A=SOLDER MALE
L=SOLDER FEMALE
N=PRINT FEMALE
V=PRINT FEMALE 90°

Note 4:
N=BLACK
G=GREY
A=BLUE
R=RED
J=YELLOW
V=GREEN

Part Number example:

Straight plug with cable collet

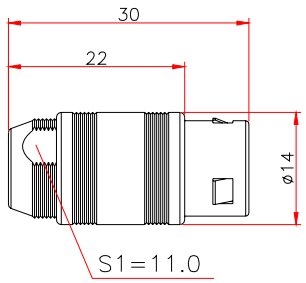
2CT104CLA52=2C series straight plug with cable collet, multipole type with 4 contacts, outer shell in chrome plated brass, PPS insulator, 2 male and 2 female solder contacts, collet for 5.0mm diameter cable.

Fixed socket

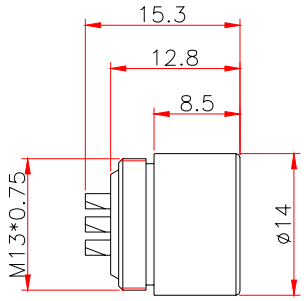
2CZ604CLL=2C series fixed socket, multipole type with 4 contacts, outer shell in chrome plated brass, PPS insulator, 2 male and 2 female solder contacts.

Housing Models

T1 PLUG　　Straight plug, with cable collet

	Reference		Dimensions（mm）
	Series	Model	
	2C	T1	

Z6 SOCKET　　Fixed socket, protruding shell, screw fixing on panel

	Reference		Dimensions（mm）
	Series	Model	
	2C	Z6	

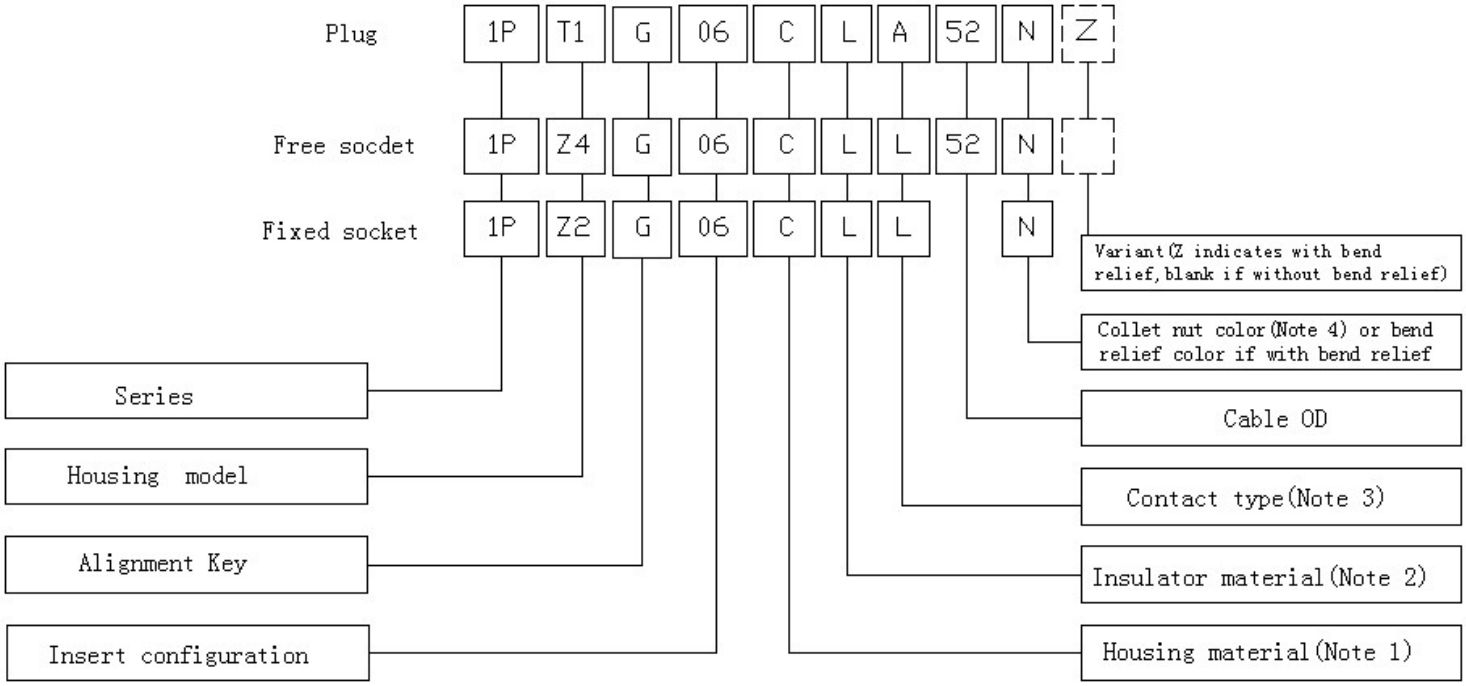
P Series

MOCO P series connectors are plastic Push-Pull connectors. They are widely used in electronic equipments, instruments & meters, LED display screen, and especially in medical devices, such as patient monitor, respirator, anesthetic machine, color Doppler ultrasound, BP monitor, Infrared therapeutic instrument, electrophysiology, TCD, electric knife, endoscopy, defibrillator, dental equipment, electric shock generator, MRI, etc.

P Series connector with the following main features:

1、 Security of the push-pull self-latching system;
2、 Multipole types 2 to 14 contacts;
3、 Solder or PCB contacts(Straight or elbow);
4、 High packing density for space saving;
5、 Wide Choice of colors for easy identification(blue, yellow, red, black, grey, green);
6、 Different keying to avoid cross mating.

Part Numbering System:



Note 1:	Note 2:	Note 3:	Note 4:	
G=GREY	L=PPS	A=SOLDER MALE	N=BLACK	R=RED
N=BLACK		L=SOLDER FEMALE	G=GREY	J=YELLOW
		N=PRINT FEMALE	A=BLUE	V=GREEN
		V=PRINT FEMALE 90°		

Part Number example:

Straight plug with cable collet

1PT1G06GLA52NZ=1P series straight plug with key (G) and cable collet, multipole type with 6 contacts, grey out shell，PPS insulator, solder male contacts, collet for 5.0mm diameter cable, with a black bend relief.

Free socket

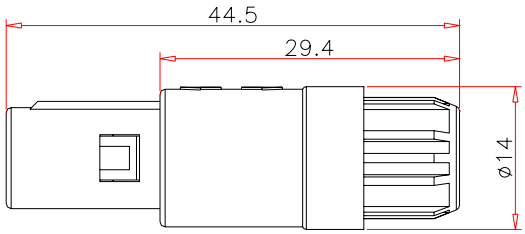
1PZ4G06GLL52N=1P series free socket with key (G) and cable collet, multipole type with 6 contacts, grey out shell，PPS insulator, solder female contacts, collet for 5.0mm diameter cable. And black collet nut.

Fixed socket

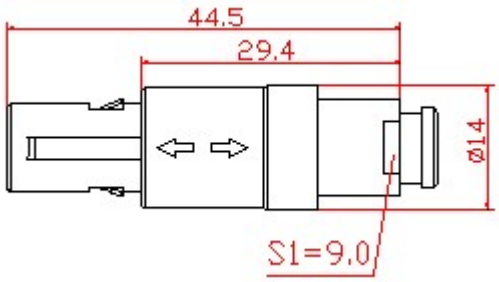
1PZ2G06GLLN=1P series fixed socket，with two nuts and key (G), multipole type with 6 contacts, grey out shell, PPS insulator, solder female contact, and black plastic front nut.

Housing Models

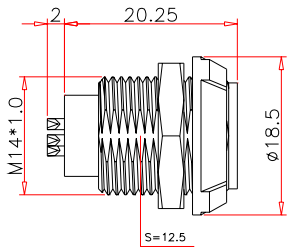
T1 PLUG Straight plug, key(G) or keys(A, B, C), with cable collet



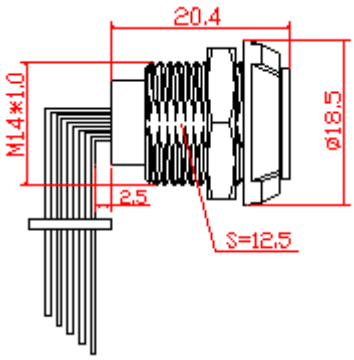
T1 PLUG Straight plug, key (G) or keys (A, B and C), with cable collet and nut for fitting a bend relief



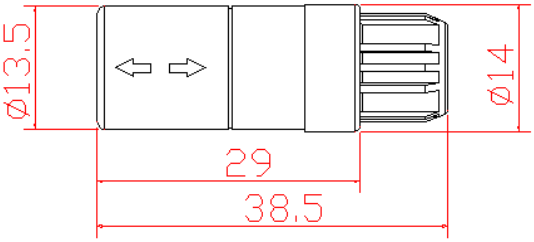
Z2 SOCKET Fixed socket, key (G) or keys (A, B and C), with two nuts



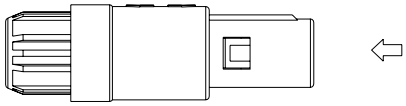
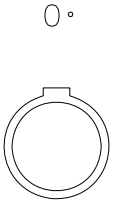
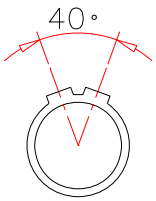
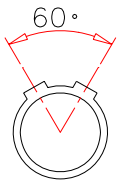
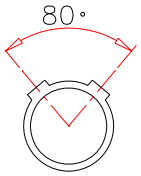
Z2 SOCKET Fixed socket, key (G) or keys (A, B and C), with two nuts, with 90°contacts for PCB



Z4 SOCKET Free socket, cable mount, key(G) or keys(A, B, C), with cable collet



Alignment key

Key of plug	Diagram			
				
Key code	G	A	B	C

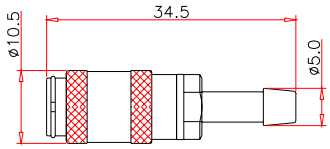
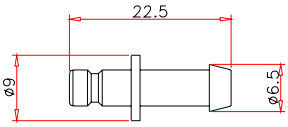
Color of collet nut and bend relief

Color	Blue	Grey	Yellow	Black	Red	Green
Code	A	G	J	N	R	V

Cable Collet

Cable Collet Code	Suitable cable diameter
39	2.7-3.9mm
52	4.0-5.2mm
65	5.3-6.5mm

Metal BP Connectors

1	BP15			Female bayonet, Push-Pull connector for NIBP, mate with BP12
2	BP12			Male bayonet , Push-Pull connector for NIBP, mate with BP15

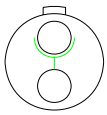
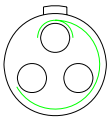
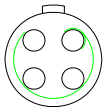
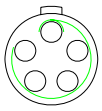
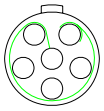
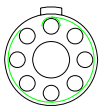
Insert configuration

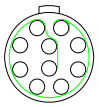
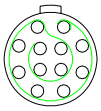
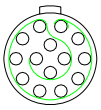
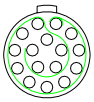
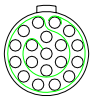
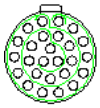
Series	**00**B					
Insert configuration						
Number of contacts	2	3	4			
Contact Dia.(mm)	0.5	0.5	0.5			
Resistance(mΩ)	10	10	10			
Working current(A)	5	3	2			
Test voltage(V)	1000	800	800			
Working voltage(V)	330	260	260			

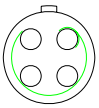
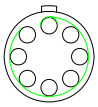
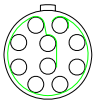
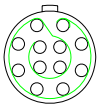
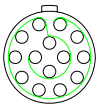
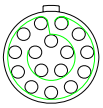
Series	**0B-0K**						
Insert configuration							
Number of contacts	2	3	4	5	6	7	9
Contact Dia.(mm)	0.9	0.9	0.7	0.7	0.5	0.5	0.5
Resistance(mΩ)	6	6	7.5	7.5	10	10	10
Working current(A)	10	10	7	7	5	5	2
Test voltage(V)	1000	875	875	750	750	750	600
Working voltage(V)	500	400	300	300	300	300	200

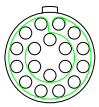
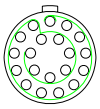
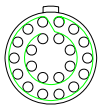
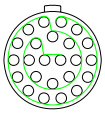
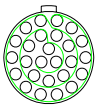
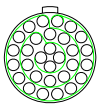
Series	**1B-1K**					
Insert configuration						
Number of contacts	2	3	4	5	6	7
Contact Dia.(mm)	1.3	1.3	0.9	0.9	0.7	0.7
Resistance(mΩ)	5	5	6	6	7.5	7.5
Working current(A)	15	12	10	9	7	7
Test voltage(V)	1500	1300	1300	1250	1050	950
Working voltage(V)	500	430	430	415	350	315

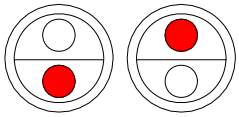
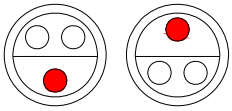
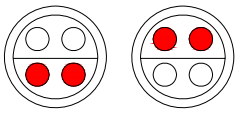
Series	**1B-1K**					
Insert configuration						
Number of contacts	8	10	14			
Contact Dia.(mm)	0.7	0.5	0.5			
Resistance(mΩ)	7.5	10	10			
Working current(A)	5	2.5	2			
Test voltage(V)	950	900	800			
Working voltage(V)	315	300	260			

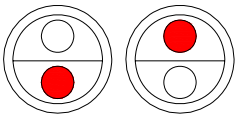
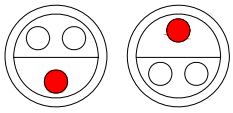
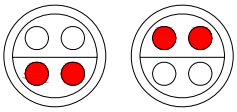
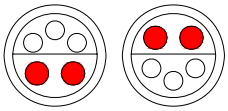
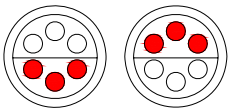
Series	2B-2K					
Insert configuration						
Number of contacts	2	3	4	5	6	8
Contact Dia.(mm)	2.0	1.6	1.3	1.3	1.3	0.9
Resistance(mΩ)	3	4	5	5	5	6
Working current(A)	30	17	15	14	12	10
Test voltage(V)	2100	2400	1850	1750	1350	1500
Working voltage(V)	700	800	610	580	450	500

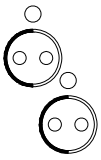
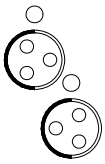
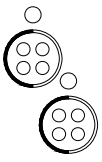
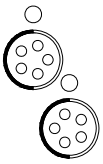
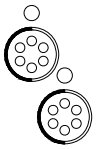
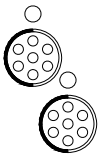
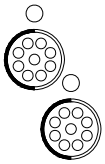
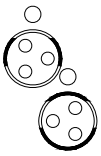
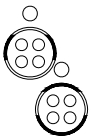
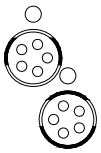
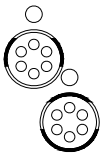
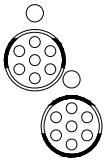
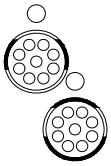
Series	2B-2K					
Insert configuration						
Number of contacts	10	12	14	16	19	26
Contact Dia.(mm)	0.9	0.7	0.7	0.7	0.7	0.5
Resistance(mΩ)	6	7.5	7.5	7.5	7.5	10
Working current(A)	8	7	6.5	6	5	2
Test voltage(V)	1450	1250	1150	950	875	950
Working voltage(V)	500	480	380	315	280	315

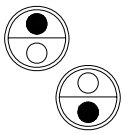
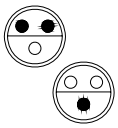
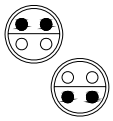
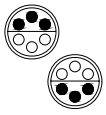
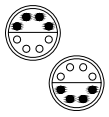
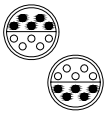
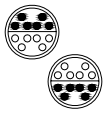
Series	3B-3K					
Insert configuration						
Number of contacts	4	8	10	12	14	16
Contact Dia.(mm)	2.0	1.3	1.3	0.9	0.9	0.9
Resistance(mΩ)	3	5	5	6	6	6
Working current(A)	19	14	12	9	9	8
Test voltage(V)	1500	1650	1250	1450	1200	1200
Working voltage(V)	550	550	415	450	400	395

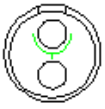
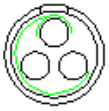
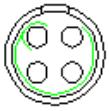
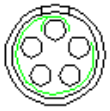
Series	3B-3K					
Insert configuration						
Number of contacts	18	20	22	24	26	30
Contact Dia.(mm)	0.9	0.7	0.7	0.7	0.7	0.7
Resistance(mΩ)	6	7.5	7.5	7.5	7.5	7.5
Working current(A)	7	6	6	4	4	3.5
Test voltage(V)	1200	1000	1000	950	950	800
Working voltage(V)	395	395	330	333	315	270

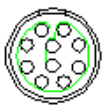
Series	0S		
Insert configuration			
Number of contacts	2	3	4
Contact Dia.(mm)	0.9	0.7	0.7
Resistance(mΩ)	6	7.5	7.5
Working current(A)	10	7	7
Test voltage(V)	1500	1000	1000
Working voltage(V)	500	330	330

Series	1S					
Insert configuration						
Number of contacts	2	3	4	5		6
				2	3	
Contact Dia.(mm)	1.3	0.9	0.9	0.9	0.7	0.7
Resistance(mΩ)	5	6	6	6	7.5	7.5
Working current(A)	15	10	10	10	7	7
Test voltage(V)	1250	1200	1200	1500	1500	1500
Working voltage(V)	450	450	400	500	500	500

Series		0F						
Insert Configu-ration	Single half-shell plug Socket							
	Dual half-shells plug Socket							
Number of contacts		2	3	4	5	6	7	9
Contact Dia.(mm)		0.9	0.9	0.7	0.7	0.5	0.5	0.5
Resistance(mΩ)		6	6	7.5	7.5	10	10	10
Working current(A)		10	8	7	6.5	2.5	2.5	2
Test voltage(V)		1300	1200	850	850	850	800	600
Working voltage(V)		430	400	280	280	280	260	200

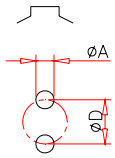
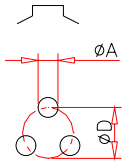
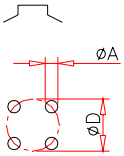
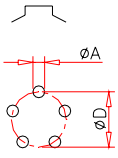
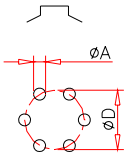
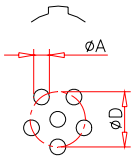
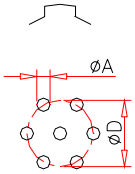
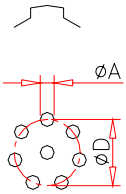
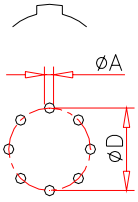
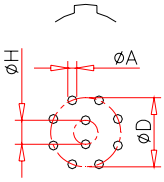
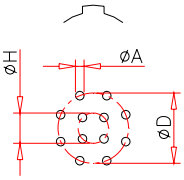
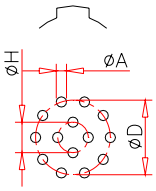
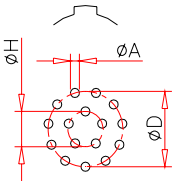
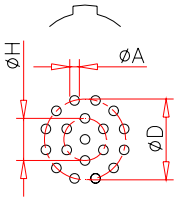
Series	2C						
Insert configuration							
Number of contacts	2	3	4	6	8	10	12
Contact Dia.(mm)	1..6	1.3	1.3	1.3	0.7	0.7	0.7
Resistance(mΩ)	4	5	5	5	7.5	7.5	7.5
Working current(A)	20	15	15	12	7	7	5
Test voltage(V)	1800	1500	1800	1500	950	950	600
Working voltage(V)	600	500	600	500	315	315	200

Series	1P				
Insert configuration					
Number of contacts	2	3	4	5	6
Contact Diameter(mm)	1.3	1.3	0.9	0.9	0.7
Resistance(MΩ)	5	5	6	6	7.5
Working current(A)	10	10	8	8	6
Test voltage(V)	1250	1250	1250	1100	1100
Working voltage(V)	500	500	500	500	450

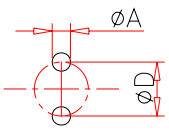
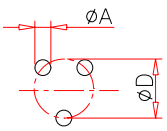
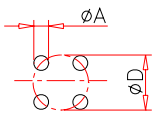
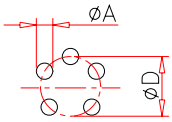
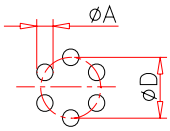
Series	1P				
Insert configuration					
Number of contacts	7	8	9	10	14
Contact Diameter(mm)	0.7	0.7	0.5	0.5	0.5
Resistance(MΩ)	7.5	7.5	10	10	10
Working current(A)	6	5	3	3	3
Test voltage(V)	1000	875	600	600	600
Working voltage(V)	450	400	333	333	333

PCB drilling pattern

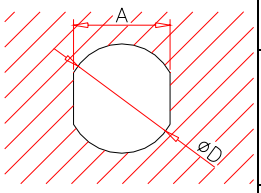
For B Series and K Series fixed socket with straight print contacts

Number of contact	Type	0B-0K	1B-1K	2B-2K	Number of contact	Type	0B-0K	1B-1K	2B-2K
 02	A	0.8	0.8	0.8	 03	A	0.8	0.8	0.8
	D	2.2	2.8	4.4		D	2.3	3.0	4.6
 04	A	0.6	0.8	0.8	 05	A	0.6	0.8	0.8
	D	2.5	3.4	5.0		D	2.8	3.4	5.2
 06	A	0.6	0.8		 06	A			0.8
	D	3.0	3.7			D			5.6
 07	A	0.6	0.8	0.8	 08	A		0.8	
	D	3.0	3.7	5.8		D		3.8	
 08	A			0.8	 10	A		0.6	0.8
	D			6.4		H D		1.4	2.15
						D		3.95	6.20
 12	A			0.8	 14	A		0.6	0.8
	H			6.5		H		1.8	2.65
	D			2.8		D		4.4	6.5
 16	A			0.8	 1 9	A			0.8
	H			3.10		H			3.50
	D			6.60		D			6.7

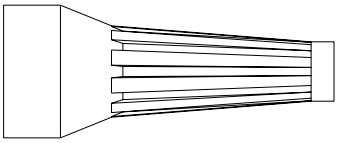
For S Series fixed socket with straight print contacts

Number of contact	Type	0S	1S		Number of contact	Type	0S	1S	
 02	A	0.8	0.8		 03	A	0.8	0.8	
	D	2.2	3.0			D	2.8	3.5	
 04	A	0.8	0.8		 05	A		0.8	
	D	2.8	3.5			D		3.5	
 07	A		0.8						
	D		3.5						

Panel cut-out

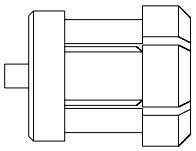
	00	0B	1B	2B	3B	0K	1K	2K	0S	1S	0F	1F	1P
	A	8.3	10.6	13.6	16.6	12.6	14.6	18.6	8.3	10.6	8.3	12.1	12.6
	D	9.1	12.1	15.1	18.1	14.1	16.1	20.1	9.1	12.1	9.1	14.1	14.1

Bend relief



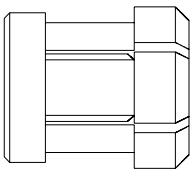
Bend relief code	Cable diameter(mm)	0B	1B	2B	3B
25	2.5-2.9	●			
30	3.0-3.4	●	●		
35	3.5-3.9	●	●		
40	4.0-4.4	●	●	●	
45	4.5-5.0	●	●	●	
51	5.1-5.6		●	●	●
57	5.7-6.2		●	●	●
63	6.3-7.0		●	●	●
71	7.1-7.9		●	●	●
80	8.0-8.9			●	●
90	9.0-9.9			●	●
01	10.0-10.5				●

Cable collet



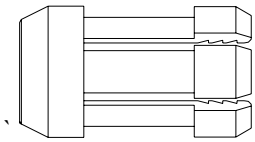
B Series

Code	Cable diameter(mm)	00	0B	1B	2B	3B
25	2.0-2.5	●	●			
30	2.6-3.0	●	●			
35	3.1-3.5	●	●	●		
40	3.6-4.0		●	●	●	
45	4.1-4.5		●	●	●	●
50	4.6-5.0		●	●	●	●
60	5.1-6.0			●	●	●
70	6.1-7.0			●	●	●
80	7.1-8.0				●	●
90	8.1-9.0				●	●
01	9.1-10.0				●	●



K Series

Code	Cable diameter(mm)	0K	1K	2K
40	3.6-4.0	●	●	
45	4.1-4.5	●	●	
50	4.6-5.0	●	●	●
60	5.1-6.0		●	●
70	6.1-7.0		●	●
75	7.1-7.5			●
80	7.6-8.0			●
85	8.1-8.5			●

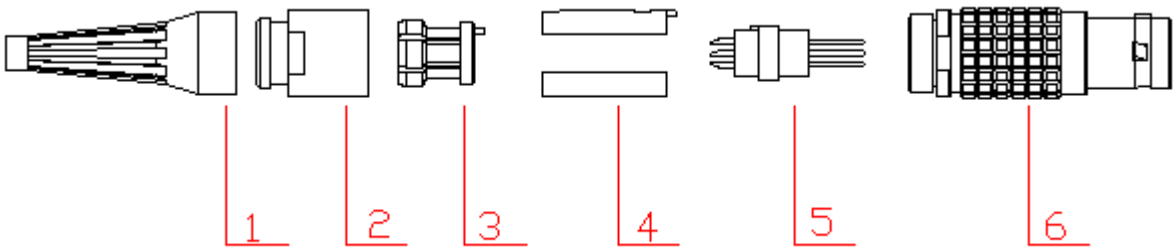


S Series

Code	Cable diameter(mm)	0S	1S
25	2.0-2.5	●	
30	2.6-3.0	●	●
35	3.1-3.5	●	●
40	3.6-4.0	●	●
45	4.1-4.5		●
50	4.6-5.0		●

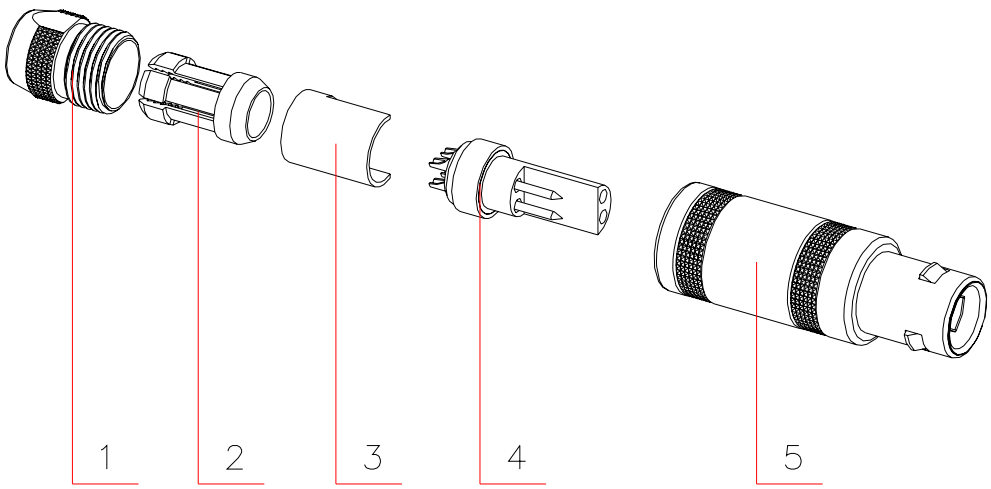
Assembly Instructions

B Series straight plug



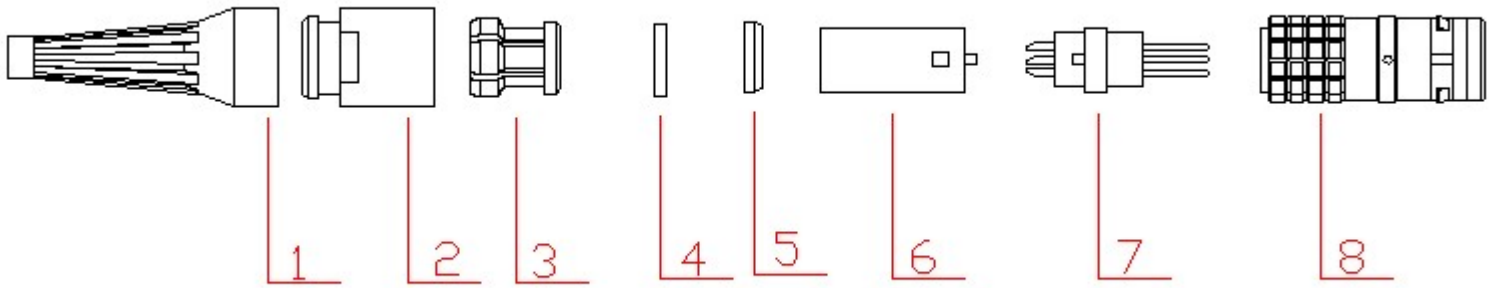
1、 Get the cable through bend relief①, collet nut②and collet③ in order, then solder it onto the insulator insert⑤orderly.
2、 Put the split insert carrier④ onto the soldered insulator insert⑤, assure that the slot of split insert carrier④ mount on the lug of insulator insert⑤.
3、 Put the collet③ on the right position of cable, make sure the lug of collet③ mount on the slot of split insert carrier④.
4、 Push the insulator insert⑤split insert carrier④ and collet③ into the outer shell⑥ in order, make sure the slot of split insert carrier④ mount on the slot of outer shell⑥.
5、 Screw the collet nut② onto the outer shell⑥ tightly.
6、 Slide the bend relief① onto the corresponding step of collet nut②.

S Series straight plug



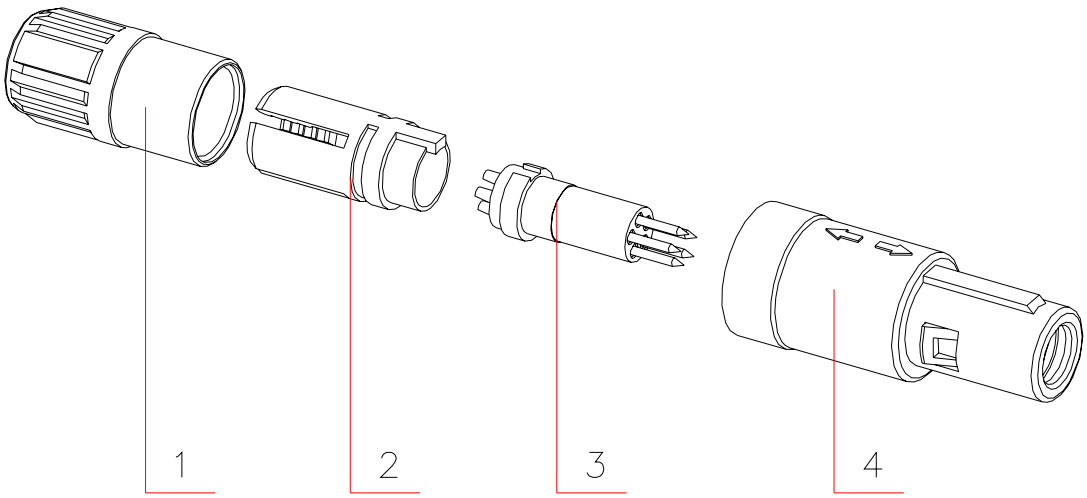
1、 Get the cable through collet nut①, collet②and centre-piece③ in order, then solder it to the insulator insert④ orderly.
2、 Slide the centre-piece③ to the insulator insert④, make sure the slot of centre-piece③ mount on the lug of insulator insert④, then push collet② to the right position of cable.
3、 Push the assembled collet②, centre-piece③ and insulator insert④ into the outer shell⑤
4、 Screw collet nut① into the outer shell⑤ tightly.

K Series straight plug



1、 Get the cable through bend relief①, collet nut②, collet③, gasket④and earthing cone⑤ in order, then solder it to the insulator insert⑦ orderly.
2、 Put the split insert carrier⑥ onto the insulator insert⑦, make sure the slot of split insert carrier⑥ mount on the slot of insulator insert⑦, then push the earthing cone⑤, gasket④ and collet③ to the right position, assure the cable sheath insert to the earthing cone⑤.
3、 Slide the assembled insulator insert⑦ into the outer shell⑧, make sure the slot of split insert carrier⑥ mount on the slot of outer shell⑧.
4、 Screw the collet nut② onto the outer shell⑧ tightly.
5、 Slide the bend relief① to the collet nut②.

P Series straight plug



1、 Get the cable through collet nut① and collet②, then solder it to the insulator insert③.
2、 Put the collet② onto the soldered insulator insert③, make sure the lug of collet② mount on the slot of insulator insert③.
3、 Slide the insulator insert③ into the outer shell④, make sure the lug of collet② mount on the slot of outer shell④.
4、 Screw the collet nut① onto the outer shell④ tightly.

Unipole & Coaxial Connectors

Series	Code	Contact type	Test voltage	Test voltage	Rated current	Contact dia.	Dimensions
00S	113	Solder	800V	1200V	8A	1.3mm	See S series housing model
	250	Solder	2100V	3000V	4A	0.7mm	
1S	116	Solder	1500V	2100V	12A	1.6mm	
	250	Solder	3000V	4200V	6A	0.9mm	
1S	120	Solder	1700V	2400V	18A	2.0mm	
	250	Solder	3000V	4200V	12A	1.6mm	
	275	Solder	2400V	3300V	10A	1.3mm	

Custom Cable Assemblies

In order to provide an one-stop service, we proudly make cable assemblies for our customers.
MOCO has his own fully trained technicians to make it happen.
Each cable assembly is fully tested for pin-pin continuity, as well as having a high voltage test to ensure that there are no potential breakdown problems.
Every cable assembly is fully inspected to ensure that it meets the requirements specified.
We do it according to customers' requirements.
If you would like to discuss your requirements or receive a quotation, please feel free to contact us at eric@mococonnectors.com