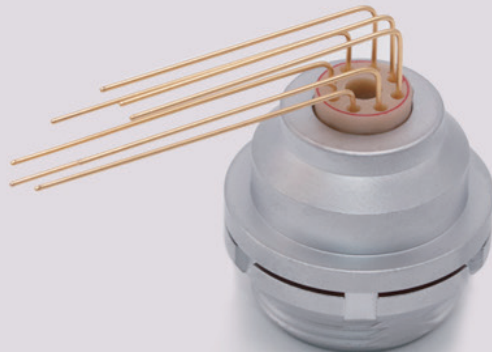


K SERIES

(OUTDOOR KEYED)

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).

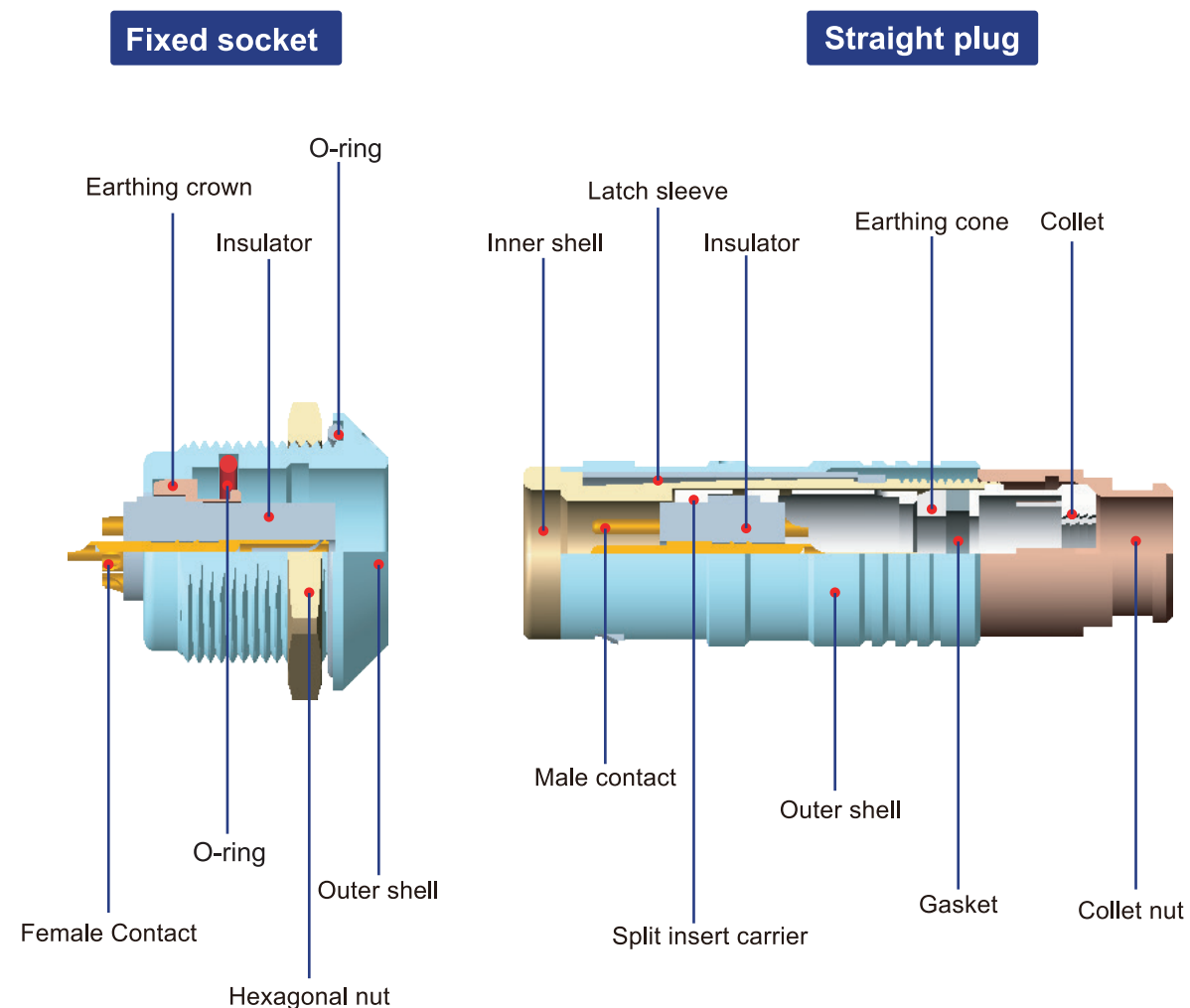


MAIN FEATURES:

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
8. Rugged housing for extreme working conditions
9. IP Rating: IP66-68

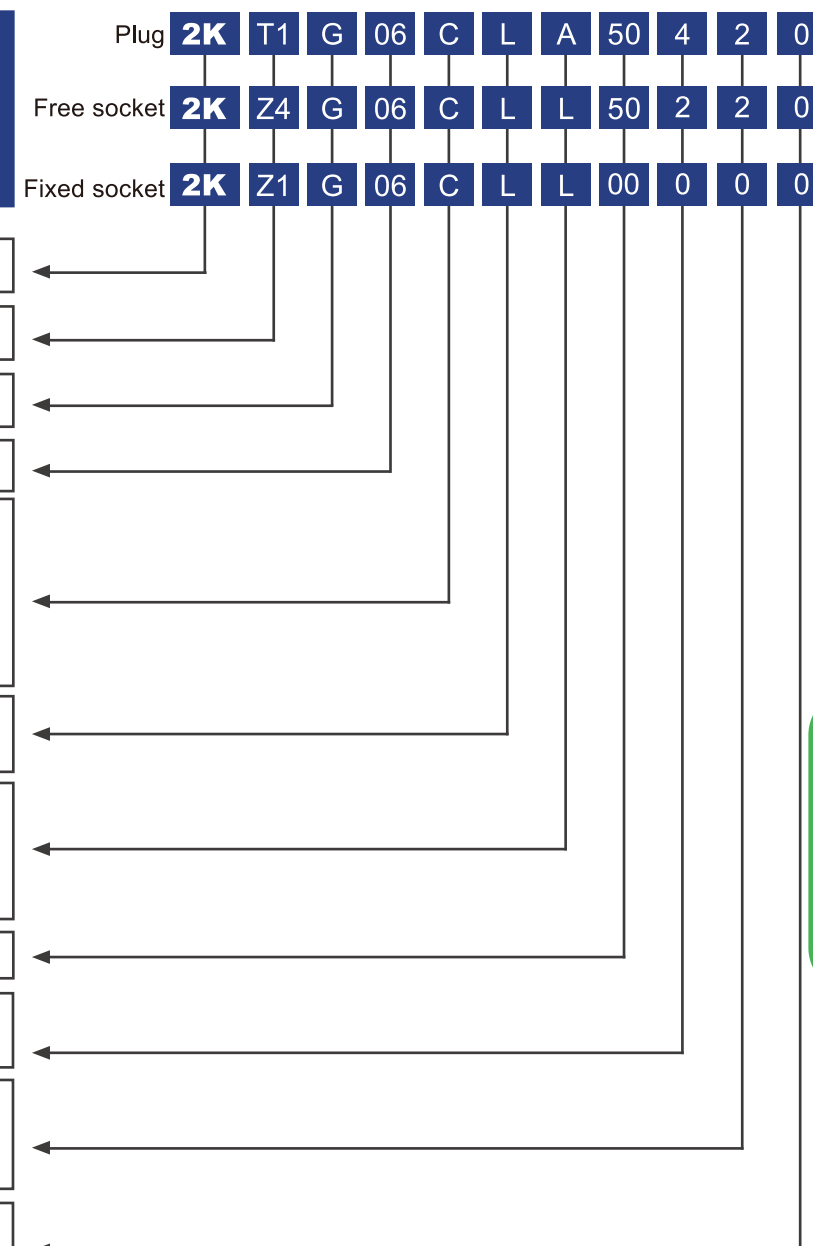
PART SECTION SHOWING INTERNAL COMPONENTS

K series



Part Numbering System

1. Series : (Page 27)
2. Housing model : (Page 27)
3. Alignment key : (Page 31)
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
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 4=Circle Pattern
10. Collet Nut Type
2=collet nut for bend relief
3=Flat(without bend relief) 4=Cupped
11. Earthing Tag
0=Without Earthing Tag 1=With Earthing Tag



PART NUMBER EXAMPLE:

Straight plug with cable collet:

2KT1G06CLA50420=2K series Straight Plug with key(G) and cable collet, multipole type with 6 contacts, chrome plated brass outer shell, PPS insulator, solder male contacts, collet for 5.0mm diameter cable, circle pattern, collet nut for bend relief, without earthing tag.

Free socket:

2KZ4G06CLL50220=2K series free socket with key(G) and cable collet, multipole type with 6 contacts, chrome plated brass outer shell, PPS insulator, solder female contacts, collet for 5.0mm diameter cable, diamond pattern, collet nut for bend relief, without earthing tag.

Fixed socket:

2KZ1G06CLL00000=2K series fixed socket, nut fixing, key(G), multipole type with 6 contacts, chrome plated brass outer shell, PPS insulator, solder female contacts, without earthing tag

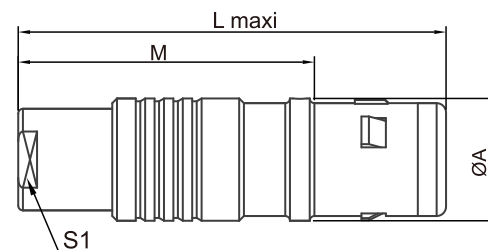
TECHNICAL CHARACTERISTICS

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)	IP66-68

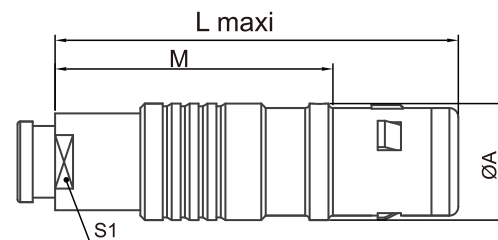
Housing Models

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



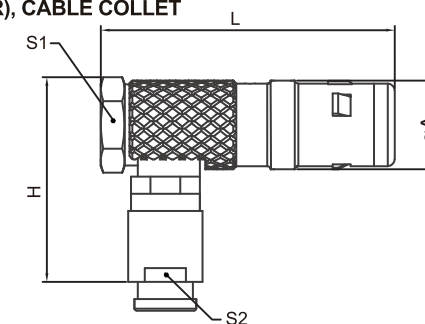
Reference		Dimensions(mm)			
Series	Model	A	L	M	S1
0K	T1	11	37.5	26.5	8
1K	T1	13	43	29	9
2K	T1	16	50	34	13
3K	T1	19	60	40	15

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



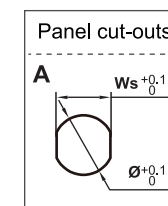
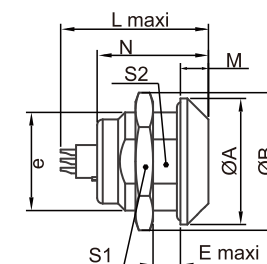
Reference		Dimensions(mm)			
Series	Model	A	L	M	S1
0K	T1	11	36.5	25	8
1K	T1	13	45	30	9
2K	T1	16	50	33.8	13
3K	T1	19	60	40	15
4K	T1	24.9	71	50.2	19

T3 PLUG ELBOW (90°) PLUG, WATERTIGHT, KEY (G) OR KEYS(A...F , LAND R), CABLE COLLET



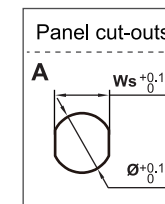
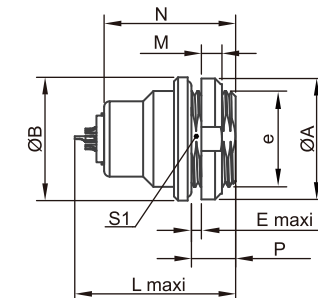
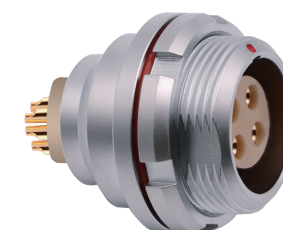
Reference		Dimensions(mm)				
Series	Model	A	L	H	S1	S2
0K	T3	10.8	38	23.9	8	9
1K	T3	13	43	30	9	12
2K	T3	16	51.4	35	15	13
3K	T3	18.9	59.9	37.5	18	15

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



Reference		Dimensions(mm)									Panel cut-outs		
Series	Model	A	B	L	N	M	E	S1	S2	e	Ws	Ø	Type
0K	Z1	18	19.2	22.5	16	4	4.5	17	12.5	M14*1.0	12.6	14.1	A
1K	Z1	20	22	30	21.5	4.5	9.5	19	14.5	M16*1.0	14.6	16.1	A
2K	Z1	25	27.7	29	22	5	9.5	24	18.5	M20*1.0	18.6	20.1	A
3K	Z1	31	34	36.2	33.6	6	11	30	22.5	M24*1.0	22.6	24.1	A

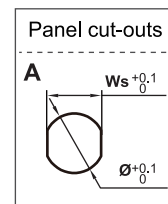
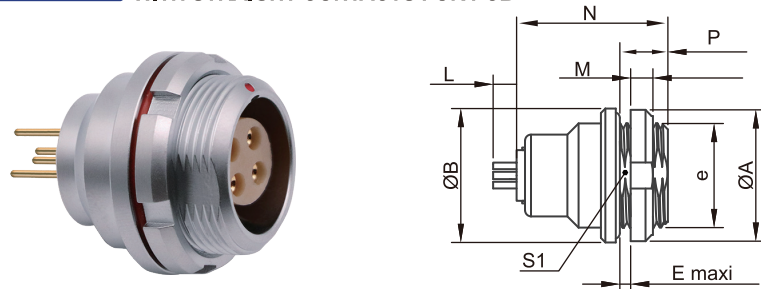
Z3 SOCKET FIXED SOCKET, BACK PANEL MOUNT , KEY (G) OR KEYS (A...F , LAND R)



Reference		Dimensions(mm)									Panel cut-outs		
Series	Model	A	B	E	M	P	N	L	S1	e	Ws	Ø	Type
0K	Z3	18	18	2.5	3.5	7	16.0	22.5	12.5	M14*1.0	12.6	14.1	A
1K	Z3	20	20	5.5	3.0	10	21.5	30.0	14.5	M16*1.0	14.6	16.1	A
2K	Z3	25	25	5.0	3.5	10	22.0	29.0	18.5	M20*1.0	18.6	20.1	A
3K	Z3	30	31	7.0	4.5	12	29.0	37.5	22.5	M24*1.0	22.6	24.1	A
4K	Z3	41.5	36.9	6.0	7	13.6	31.5	41	28.5	M30*1.0	28.6	30.1	A

Z3 SOCKET

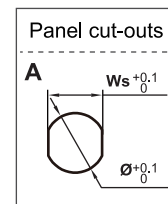
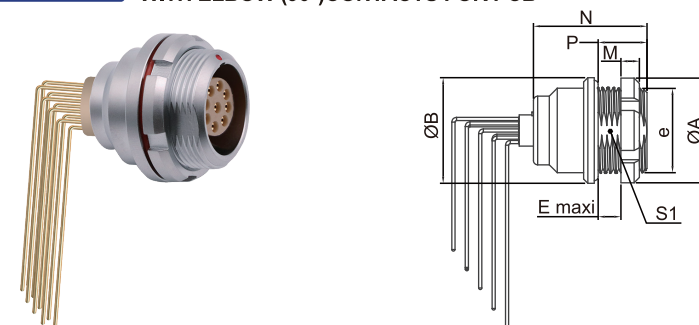
FIXED SOCKET, BACK PANEL MOUNT , KEY (G) OR KEYS (A...F , LAND R)
WITH STRAIGHT CONTACTS FOR PCB



Reference		Dimensions(mm)									Panel cut-outs		
Series	Model	A	B	E	M	P	N	L	S1	e	Ws	Ø	Type
0K	Z3	18	18	2.5	3.5	7	16.0	4.0	12.5	M14*1.0	12.6	14.1	A
1K	Z3	20	20	5.5	3.0	10	21.5	4.0	14.5	M16*1.0	14.6	16.1	A
2K	Z3	25	25	5.0	3.5	10	22.0	4.0	18.5	M20*1.0	18.6	20.1	A
3K	Z3	30	31	7.0	4.5	12	29.0	4.0	22.5	M24*1.0	22.6	24.1	A

Z3 SOCKET

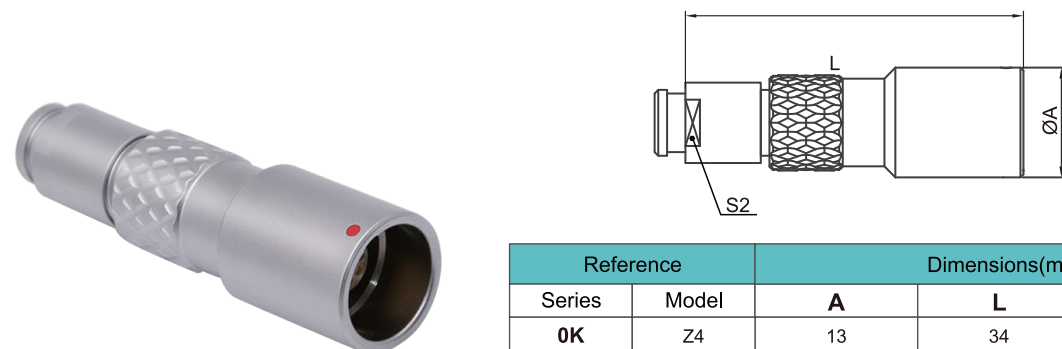
FIXED SOCKET, BACK PANEL MOUNT , KEY (G) OR KEYS (A...F , LAND R)
WITH ELBOW (90°)CONTACTS FOR PCB



Reference		Dimensions(mm)									Panel cut-outs		
Series	Model	A	B	E	M	P	N	L	S1	e	Ws	Ø	Type
0K	Z3	18	18	2.5	3.5	7	16.0	22.5	12.5	M14*1.0	12.6	14.1	A
1K	Z3	20	20	5.5	3.0	10	21.5	30.0	14.5	M16*1.0	14.6	16.1	A
2K	Z3	25	25	5.0	3.5	10	22.0	29.0	18.5	M20*1.0	18.6	20.1	A
3K	Z3	30	31	7.0	4.5	12	29.0	37.5	22.5	M24*1.0	22.6	24.1	A

Z4 SOCKET

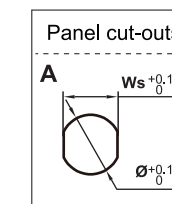
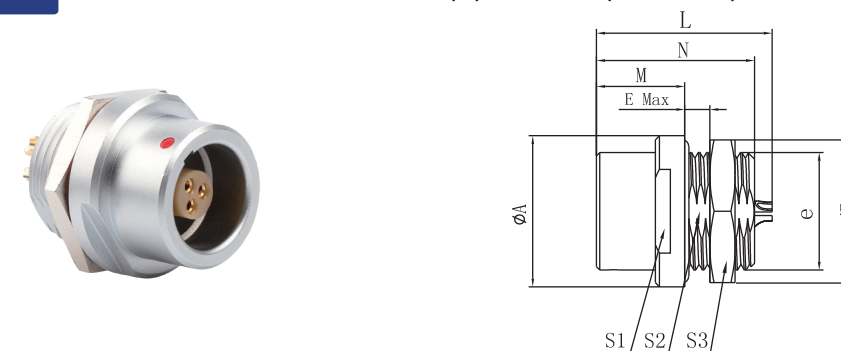
FREE SOCKET, CABLE MOUNT, KEY (G) OR KEYS (A...M AND R) AND NUT FOR FITTING A BEND RELIEF



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

Z6 SOCKET

FIXED SOCKET, NUT FIXING,KEY(G) OR KEYS (A...F,L & R)

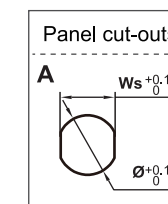
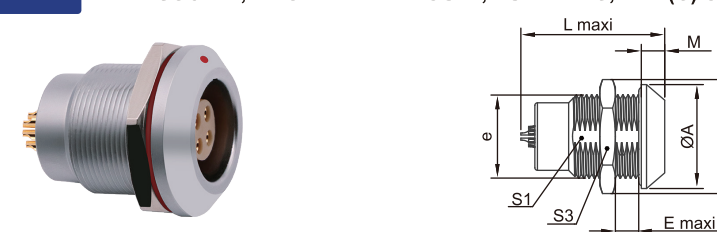


Reference		Dimensions(mm)										Panel cut-outs		
Series	Model	A	B	L	M	N	E	S1	S2	S3	e	Ws	Ø	Type
0K	Z6	18	19.6	20.9	10.5	18.8	4	18.5	12.5	17	M14*1.0	12.6	14.1	A

WATERTIGHT OR VACUUMTIGHT MODELS(watertight when mated)

Z7 SOCKET

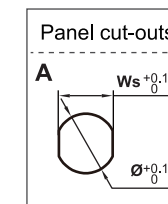
FIXED SOCKET, FRONT PANEL MOUNT, NUT FIXING, KEY (G) OR KEYS (A...F , LAND R)



Reference		Dimensions(mm)								Panel cut-outs		
Series	Model	A	B	E	L	M	S1	S3	e	Ws	Ø	Type
0K	Z7	18	19.2	4.5	22.5	4.0	12.5	17	M14*1.0	12.6	14.1	A
1K	Z7	20	22	9.0	26.7	4.5	14.5	19	M16*1.0	14.6	16.1	A
2K	Z7	25	27.7	9.5	29.0	5.0	18.5	24	M20*1.0	18.6	20.1	A
3K	Z7	31	34	11	36.5	6.0	22.5	30	M24*1.0	22.6	24.1	A

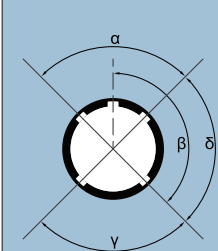
Z13 SOCKET

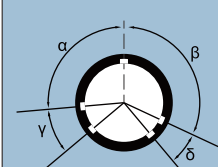
FIXED SOCKET, BACK PANEL MOUNT , KEY (G) OR KEYS (A...F , LAND R)



Reference		Dimensions(mm)								Panel cut-outs		
Series	Model	A	B	E	L	M	P	S1	e	Ws	Ø	Type
0K	Z13	18	18	2.0	22.5	3.5	7	12.5	M14*1.0	12.6	14.1	A
1K	Z13	20	20	5.5	28.4	3.0	10	14.5	M16*1.0	14.6	16.1	A
2K	Z13	25	25	5.0	29.0	3.5	10	18.5	M20*1.0	18.6	20.1	A

K series Alignment Key and Polarized Keying System

Front view of a socket	Ref.	Nb of keys	Angles	Series					Contact type		Note
				0K	1K	2K	3K	4K	Plug	Socket	
	G	1		0°	0°	0°	0°	0°	male	female	●
	A	2	α	30°	30°	30°	30°	30°	male	female	●
	B	2		45°	45°	45°	45°	45°	male	female	●
	C	2		60°	60°	60°	60°	60°	male	female	●
	D	2	γ	95°	95°	95°	95°	95°	male	female	○
	E	2		120°	120°	120°	120°	120°	male	female	○
	F	2	β	145°	145°	145°	145°	145°	male	female	○
	L	2	γ	75°	75°	75°	75°	75°	female	male	●

Front view of a socket	Ref.	Nb of keys	Angles	Series					Contact type		Note
				0K	1K	2K	3K	4K	Plug	Socket	
	R	5	α	-	-	-	95°	-	male	female	●
			β	-	-	-	115°	-			
				-	-	-	35°	-			
				-	-	-	25°	-			