

K SERIES(Outdoor, Keyed)

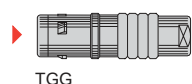
K series connectors have been specifically designed for outdoor applications.

They include an inner sleeve and two seals to prevent penetration of solids or liquids into the housing formed by the plug, free socket, fixed socket. All models of this series are watertight when mated to give a protection index of IP68 (in mated condition) when correctly assembled to an appropriate cable (IP66 otherwise).



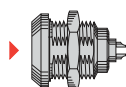
Metal housing models (page 25)

Straight plugs



TGG

Fixed sockets



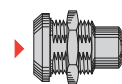
ZGG

Free sockets



DHG

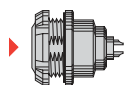
Fixed sockets



MGG



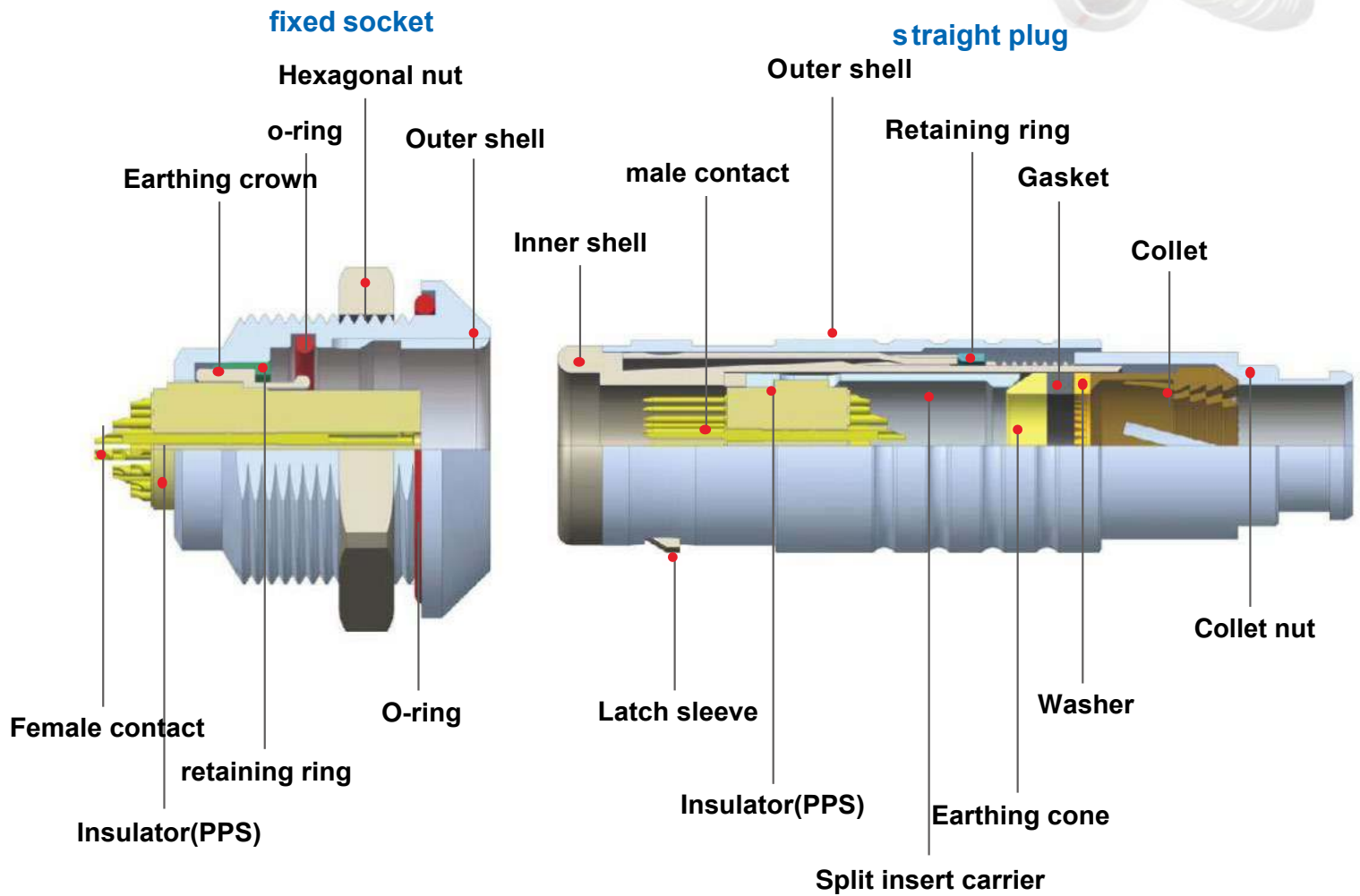
TGG



ZEG



DHG



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

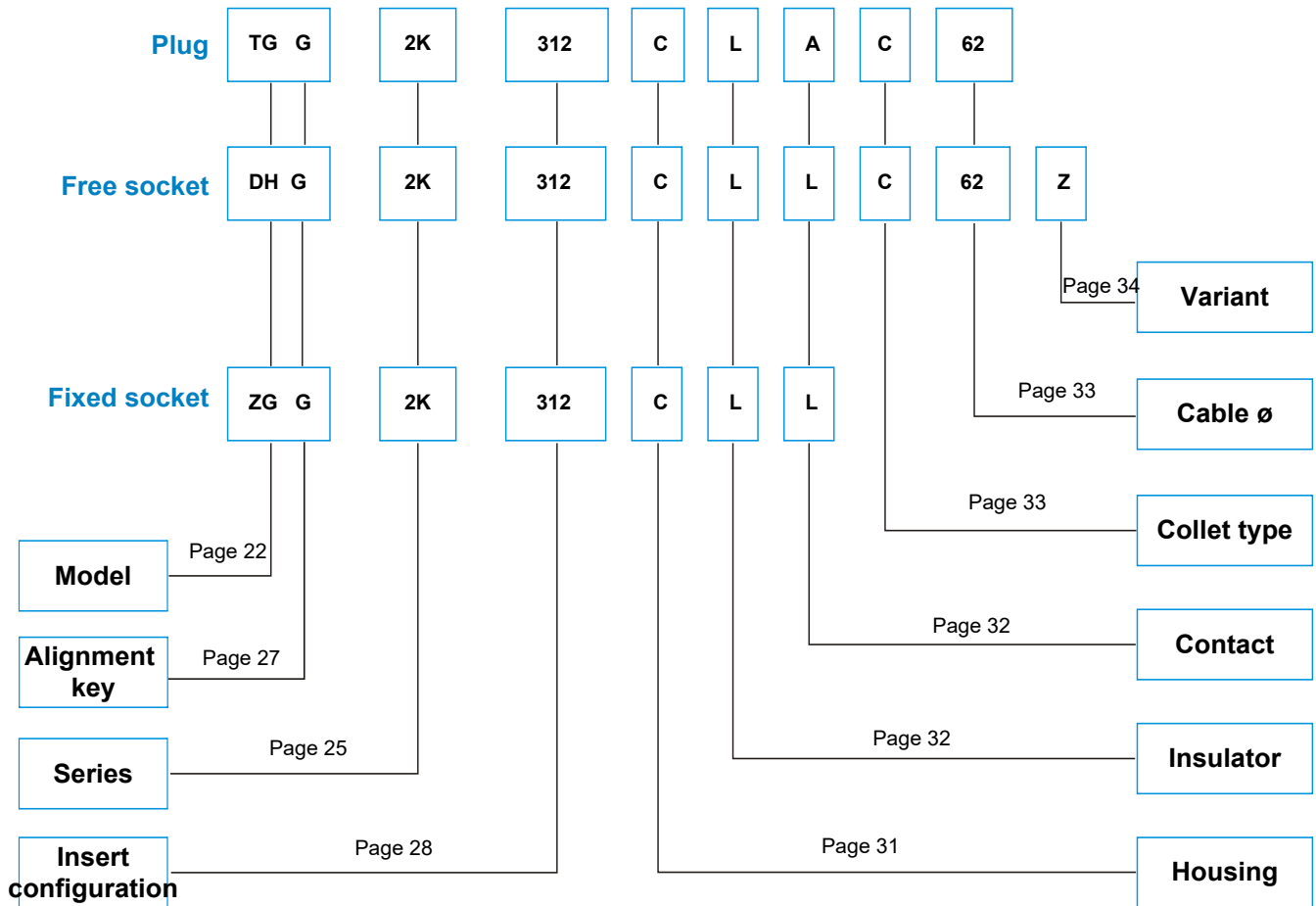
- security of the Push-Pull self-latching system
- rugged housing for extreme working conditions.
- multipole types 2 to 26 contacts
- solder, crimp or print contacts (straight or elbow)
- watertight connection (IP 68/IP 66)
- high packing density for space savings
- multiple key options to avoid cross mating of similar connectors
- keying system («G» key standard) for connector alignment
- 360° screening for full EMC shielding.

K Series Connectors Technical Characteristics:

- Endurance: > 5000 cycles
- Humidity: up to 95% at 60° C
- Temperature range: - 45° C, + 125° C
- Resistance to vibrations: 10-2000 Hz, 15g
- Shock resistance: 100 g, 6 ms
- Salt spray corrosion test: > 48h
- Protection index (mated): IP 68/IP 66



K Series Part Numbering System:



part number example

straight plug with cable collet:

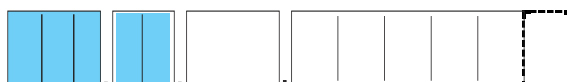
TGG.2K.312.CLAC62 = straight plug with key (G) and cable collet, 2K series, multipole type with 12 contacts, outer shell in chrome-plated brass, PPS insulator, male solder contacts, C type collet for 6.2 mm diameter cable.

Free socket:

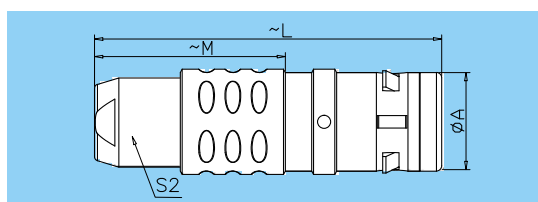
DHG.2K.312.CLLC62Z = free socket with key (G) and cable collet, 2K series, multipole type with 12 contacts, outer shell in chrome-plated brass, PPS insulator, female solder contacts, C type collet for 6.2 mm diameter cable and nut for fitting a bend relief.

fixed socket:

ZGG.2K.312.CLL = fixed socket, nut fixing, with key (G), 2K series, multipole type with 12 contacts, outer shell in chrome-plated brass, PPS insulator, female solder contacts.

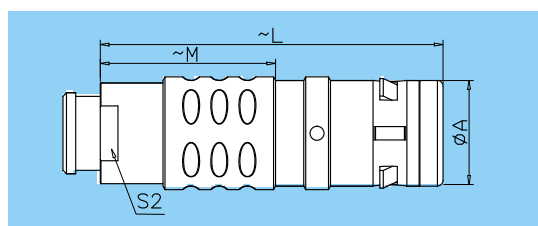


Metal Housing Models



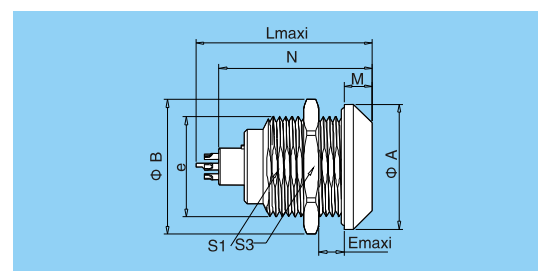
TGG Straight plug, key (G) or keys (A to F, L and R), cable collet

Reference		Dimensions (mm)			
Series	Model	A	L	M	S1
0K	TGG	11	34	23	8
1K	TGG	13	42	28	9
2K	TGG	16	52	36	12



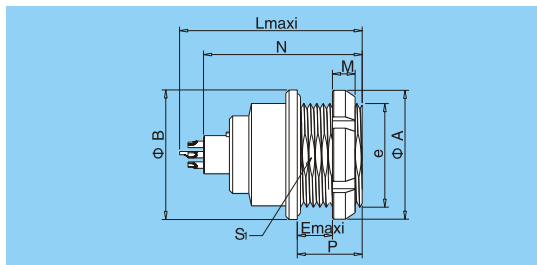
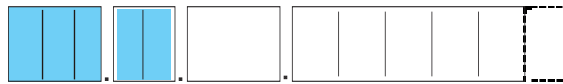
TGG Straight plug, key (G) or keys (A to F, L and R), cable collet and nut for fitting a bend relief

Reference		Dimensions (mm)			
Series	Model	A	L	M	S2
0K	TGG	11	34	23	7
1K	TGG	13	42	28	9
2K	TGG	16	52	36	12



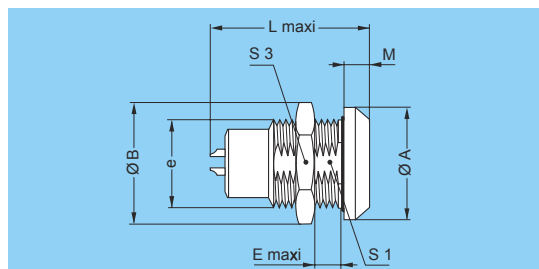
ZGG Fixed socket, nut fixing, key (G) or keys (A to F, L and R)

Reference		Dimensions (mm)								
Series	Model	A	B	e	E	L	M	N1)	S1	S3
0K	ZGG	18	19.2	M14x1.0	6	21.7	4.0	20.1	12.5	17
1K	ZGG	20	21.5	M16x1.0	9	27.0	4.5	25.1	14.5	19
2K	ZGG	25	27.0	M20x1.0	9	30.7	5.0	28.6	18.5	24



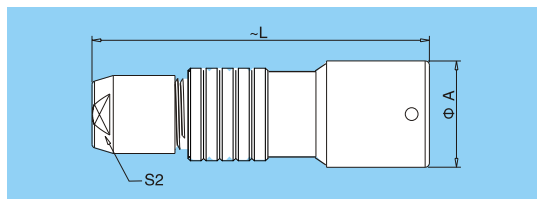
ZEG Fixed socket, nut fixing, key (G) or keys (A to F, L and R) (back panel mounting)

Reference		Dimensions (mm)								
Series	Model	A	B	e	E	L	M	N1)	P	S1
0K	ZEG	18	18	M14x1.0	3.4	21.7	3.5	20.1	7	12.5
1K	ZEG	20	20	M16x1.0	6.2	27.0	3.5	25.1	10	14.5
2K	ZEG	25	25	M20x1.0	5.0	30.7	3.5	28.6	10	18.5



MGG Fixed socket, nut fixing, key (G) or keys (A to F and L), watertight or vacuumtight

Reference		Dimensions (mm)							
Series	Model	A	B	e	E	L	M	S1	S3
0K	MGG	18	19.2	M14x1.0	5.5	21.7	4.0	12.5	17
1K	MGG	20	21.5	M16x1.0	9	30.0	4.5	14.5	19
2K	MGG	25	27.0	M20x1.0	13.0	33.7	5.0	18.5	24

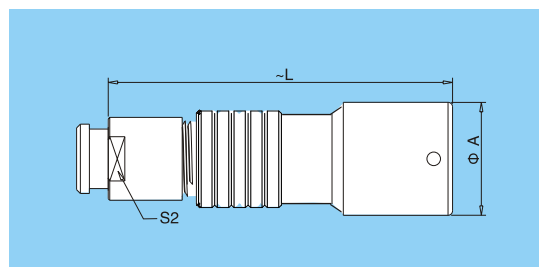


DHG Free socket, key (G) or keys (A to F, L and R), cable collet

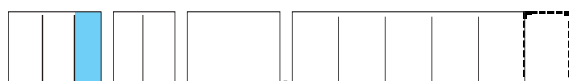
Reference		Dimensions (mm)		
Series	Model	A	L	S2
0K	DHG	13	34.0	8
1K	DHG	15	42.0	9
2K	DHG	19	52.0	12



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



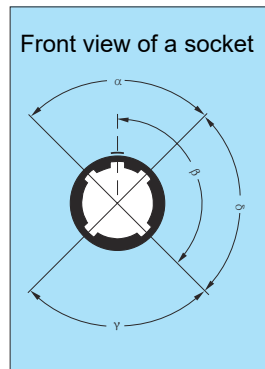
Reference		Dimensions (mm)		
Series	Model	A	L	S2
0K	DHG	13	34	7
1K	DHG	15	45	9
2K	DHG	19	54	12

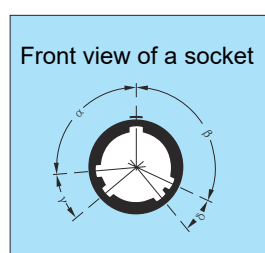


Alignment Key (K series)

Alignment Key and Polarized Keying System:

K series connector model part numbers are composed of three letters. The **LAST LETTER** indicates the key position and the contact type (male or female).

Front view of a socket	Ref.	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	Ref.	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°	-	-		