

K series

K series connectors have been specifically designed for outdoor applications.

All models of this series are watertight when mated to give a protection index of IP68 (IP66 otherwise) when correctly assembled to an appropriate cable. K series connectors have the same insulators as the B series and have the following main features.

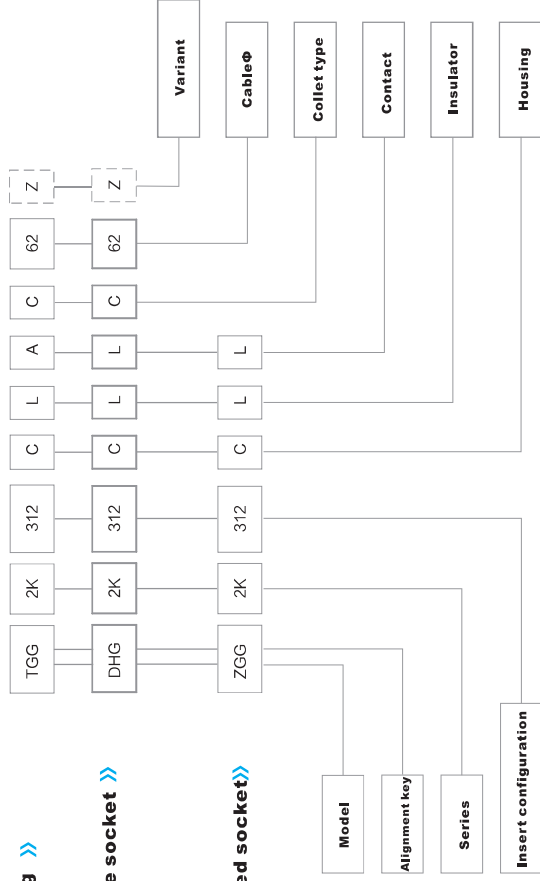
- security of the Push-Pull latching system.
- High packing density for space savings.
- 360° screening for full EMC shielding.
- Keying system («G» key standard).
- Multipole types 2 to 32 contacts.
- Watertight connection (IP 68/IP 66).
- Solder or print (straight or elbow) contacts.
- Multiple key options to avoid cross mating for connector alignment of similar connectors.
- Rugged housing for extreme working conditions.

Part Numbering System of K series

Plug >>

Free socket >>

Fixed socket >>



Technical Characteristics of K series:

Mechanical and Climatical:

- Endurance: > 5000 cycles
- Humidity: up to 95% at 60°C
- Temperature range: -55°C, +250°C
- Resistance to vibrations: 10-2000 Hz, 15g
- Shock resistance: 100g, 6ms
- Salt spray corrosion test: > 48h
- Protection index (mated): IP 66-68

Housings (B and K series)

Ref.	Outer shell and collet nut		Latch sleeve + earthing crown		Other metallic components	
	Material	Surf. treatment	Material	Surf. treatment	Material	Surf. treatment
C	Brass	chrome	brass/bronze	nickel	brass	nickel
N	Brass	nickel	brass/bronze	nickel	brass	nickel
K	Brass	black chrome	brass/bronze	nickel	brass	nickel
S	Stainless steel	—	brass/bronze	nickel	brass	nickel
T	Stainless steel	—	stainless steel	nickel	brass	nickel
U	Stainless steel	—	stainless steel	nickel	stainless steel	—
L	Aluminium alloy	anodized	brass/bronze	nickel	brass	nickel
X	Aluminium alloy	nickel anthracite	brass/bronze	nickel	brass	nickel

Note: in the K series, the latch sleeve is nickel-plated.

Examples of Product Numbers

▲ 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.CLLC62 = 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.

▲ 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 extended insulator, female solder contacts.

Part Section Showing Internal Components

Fixed socket

- ① outer shell
- ② earthing crown
- ③ retaining ring
- ④ hexagonal nut
- ⑤ insulator
- ⑥ female contact
- ⑦ o-ring

Straight plug

- ① outer shell
- ② latch sleeve
- ③ inner shell
- ④ retaining ring
- ⑤ collet nut
- ⑥ split insert carrier
- ⑦ insulator
- ⑧ male contact
- ⑨ earthing cone
- ⑩ collet
- ⑪ gasket
- ⑫ washer

TGG Straight plug

Key (G) or keys (A to F, L and R), cable collet

Reference	Series	Model	A	L	M	S1
0K	TGG		11	34	23	8
1K	TGG		13	42	28	9
2K	TGG		16	52	36	12
3K	TGG		19	61	41	14

TGG Straight plug

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

Reference	Series	Model	A	L	M	S2
0K	TGG		11	34	23	7
1K	TGG		13	42	28	9
2K	TGG		16	52	36	12
3K	TGG		19	60	40	15

ZGG Fixed socket

Nut fixing, key (G) or keys (A to F, L and R)

Reference	Series	Model	A	B	e	E	L	M	N(1)	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
3K	ZGG		31	34	M24x1.0	11	36.2	6.0	33.6	22.5	30

ZEG Fixed socket

Nut fixing, key (G) or keys (A to F, L and R) (back panel mounting)

Reference	Series	Model	A	B	e	E	L	M	N(1)	D	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	6.2	30.7	3.5	28.6	10	18.5

ZEG Fixed socket

Nut fixing, key (G) or keys (A to F, L and R) with straight print contacts for printed circuit(back panel mounting)

Reference	Series	Model	A	B	e	E	L	M	N(1)	S1	S3
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

DHG Free socket

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

Reference	Model	Dimensions (mm)			
		A	L	S2	
0K	DHG	13	34	7	
1K	DHG	15	45	9	
2K	DHG	19	54	12	
3K	DHG	23	65	15	

DHG Free socket

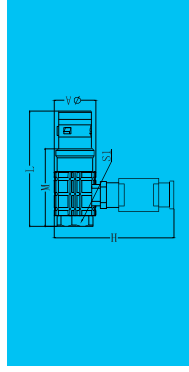
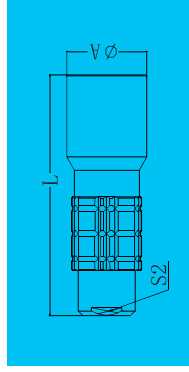
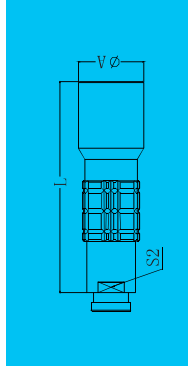
Key (G) or keys (A to F, L and R), cable collet

Reference	Model	Dimensions (mm)			
		A	L	S2	
0K	DHG	13	34.0	8	
1K	DHG	15	42.0	9	
2K	DHG	19	52.0	12	
3K	DHG	23	66.0	15	

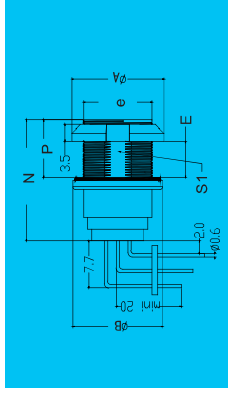
THG Elbow (90°) plug

Key (G) or keys (A to F, L and R), cable collet or bend relief

Reference	Model	Dimensions (mm)				
		A	L	M	H	S1
0K	THG	11.5	36	25.0	27	10
1K	THG	14.0	43	29.0	33	12
2K	THG	17.5	51	35.0	40	15
3K	THG	21.0	60	40.0	47	18



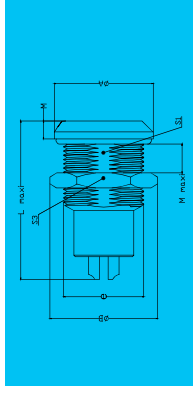
ZEG Fixed socket



Nut fixing, key (G) or keys (A to F and L) with elbow (90°) contacts for printed circuit(back panel mounting)

Reference	Model	Dimensions (mm)							
		A	B	e	E	M	N	P	S1
0K	ZEG	18	18	M14x1.0	3.4	3.5	19.3	7	12.5
1K	ZEG	20	20	M16x1.0	6.2	3.5	24.3	10	14.5
2K	ZEG	25	25	M20x1.0	5.0	3.5	26.6	10	18.5

MGG Fixed socket



Nut fixing, key (G) or keys (A to F and L), watertight or vacuumtight

Reference	Model	Dimensions (mm)							
		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	9.0	30.0	4.5	14.5	19
2K	MGG	25	27.0	M20x1.0	13.0	33.7	5.0	18.5	24

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).

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

Front view of a socket

