





OT series

OT series connectors have been specifically designed for outdoor applications. They include an inner sleeve and seals to prevent penetration of solids or liquids. This series is watertight when mated to give a protection index of IP68 as per IEC 60529 standard and have the following main features:

- IP68 mated
- Push-Pull self-latching system
- Mechanical key (FGG) with multiple keys to avoid cross-mating
- High packing density for space savings
- 360° shielding for full EMC shielding
- Compatible with existing 0B sockets
- Same mounting hole as 0B sockets
- Black-chrome plated brass and plastic outershell available
- Multipole types 2 to 9 contacts
- For cables 1.0 up to 5.0 mm
- Solder, crimp or print contacts

Technical Characteristics

Mechanical and Climatical	Value	Standard
Endurance	> 5000 cycles	IEC 60512-5 test 9a
Humidity	up to 95% at 60° C	-
Temperature range	-55° C, +200° C	-
Resistance to vibration	10-2000 Hz, 15 g	IEC 60512-4 test 6d
Shock resistance	100 g, 6 ms	IEC 60512-4 test 6c
Salt spray corrosion test	> 144h	IEC 60512-6 test 11f
Protection index (mated)	IP68	IEC 60529
Latching retention force	> 150 N	-

Electrical	V alue	Standard	
Shielding efficiency at 10 MHz	> 75 dB	IEC 60169-1-3	
Shielding efficiency at 1 GHz	> 40 dB	IEC 60169-1-3	

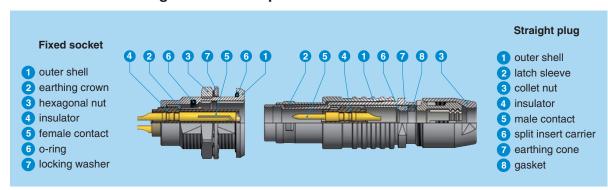
Material and Treatments

Outershell a Material	Outershell and collet nut Material Surf. treat.		Latch sleeve/earthing crown Material Surf. treat.		c components Surf. treat.
Brass	Chrome	Brass/Bronze	Nickel	Brass	Nickel
Brass	Black chrome	Brass/Bronze	Nickel	Brass	Nickel
POM	-	Brass/Bronze	Nickel	Brass	Nickel

Contacts Insulators

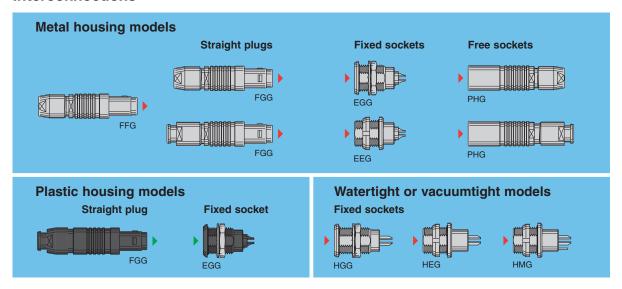
Material	Contact type	Material	Contact type
Brass (UNS C 34500)	Male contact	PEEK	Crimp, solder or print
Bronze (UNS C 54400)	Female contact		

Part Section Showing Internal Components



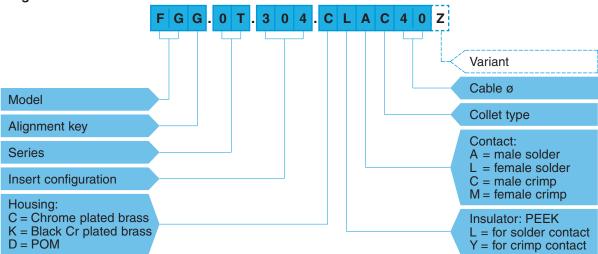


Interconnections

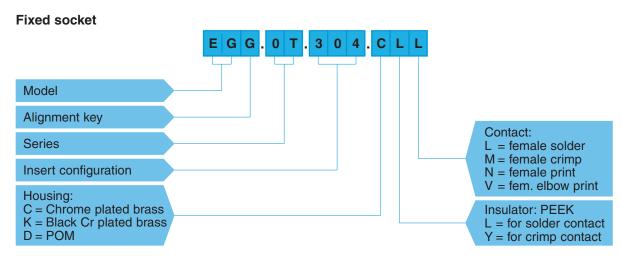


Part Numbering System

Plug and free socket



FGG.0T.304.CLAC40Z = Straight plug with key (G) and cable collet for bend relief, 0T series, multipole type with 4 contacts, outer shell in chrome-plated brass, PEEK insulator, male solder contacts, C type collet for 4.0 mm diameter cable and nut for fitting a bend relief.

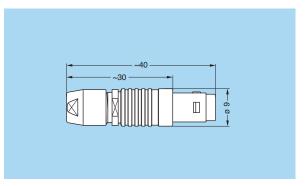


EGG.0T.304.CLL = fixed socket, nut fixing, with key (G), 0T series, multipole type with 4 contacts, outer shell in chrome-plated brass, PEEK insulator, female solder contacts.



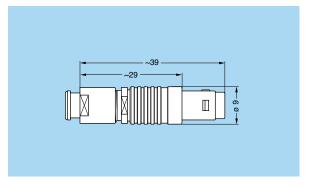
FGG Straight plug, cable collet





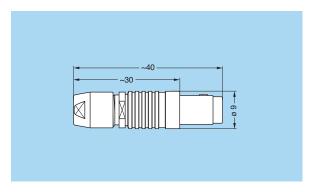
FGG Straight plug, cable collet and nut for fitting a bend relief





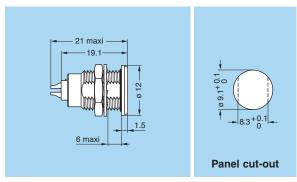
FFG Straight plug, non latching, cable collet





EGG Fixed socket, nut fixing

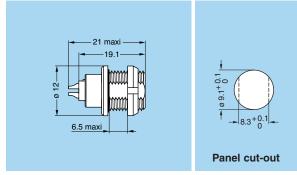






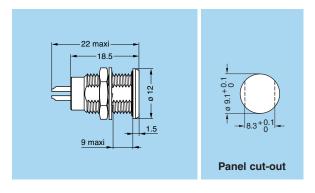
EEG Fixed socket, nut fixing, back panel mounting





HGG Fixed socket, nut fixing, watertight or vacuumtight

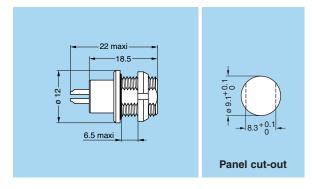




Note: temperature range -20°C / +100°C

HEG Fixed socket, nut fixing, watertight or vacuumtight, back panel mounting

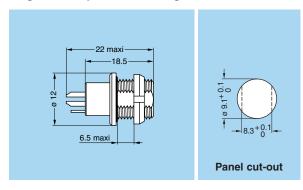




Note: temperature range -20°C / +100°C

HMG Fixed socket, nut fixing, watertight or vacuumtight, back panel mounting



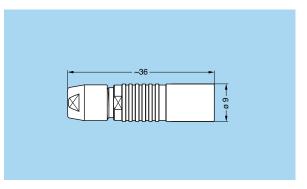


Note: temperature range -20°C / +100°C



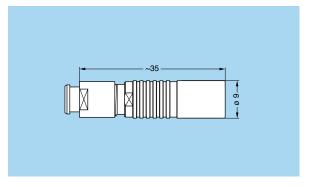
PHG Free socket, cable collet





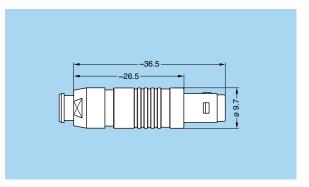
PHG Free socket, cable collet and nut for fitting a bend relief





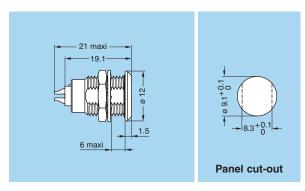
FGG Straight plug, cable collet and nut for fitting a bend relief, POM outer shell





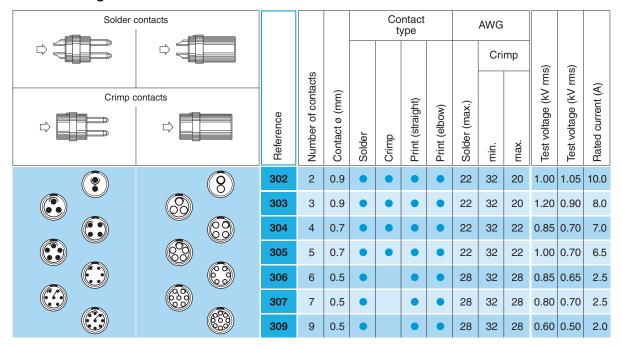
EGG Fixed socket, nut fixing, POM outer shell



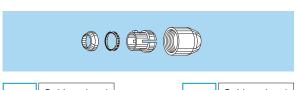




Insert configurations



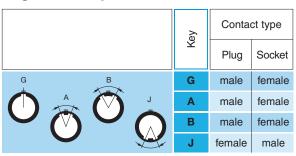
Collets



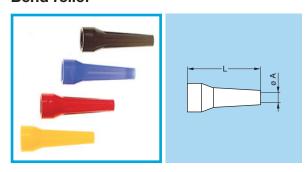
T 2	Cable ø (mm)	
Type	min.	max.
C10	1.0	1.2
C15	1.3	1.5
C20	1.6	2.0
C25	2.1	2.5
C30	2.6	3.0

Time	T	Cable ø (mm)		
Тур	е	min.	max.	
C3	5	3.1	3.5	
C4	0	3.6	4.0	
C4	5	4.1	4.5	
C 5	0	4.6	5.0	

Alignment Key



Bend relief



Part number	Α	L	min.
GMA.0B.025.DG	2.5	24	2.5
GMA.0B.030.DG	3.0	24	3.0
GMA.0B.035.DG	3.5	24	3.5
GMA.0B.040.DG	4.0	24	4.0
GMA.0B.045.DG	4.5	24	4.5

Bend relief

Cable ø

max.

2.93.43.94.45.2

Note: all dimensions are in millimetres.

Ref.	Colour
Α	blue
В	white
G	grey

Ref.	Colour
J	yellow
M	brown
N	black

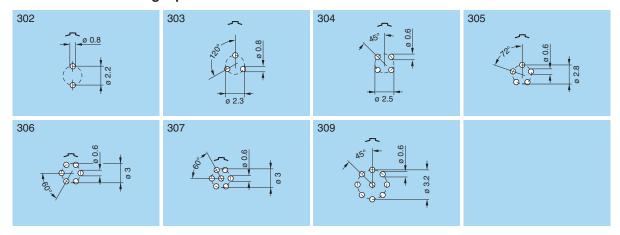
Ref.	Colour
R	red
S	orange
V	green

Note: the last letter «G» of the part number indicates the grey colour of the bend relief. For ordering a bend relief with another colour, see table and replace the letter «G» by the letter of the required colour.

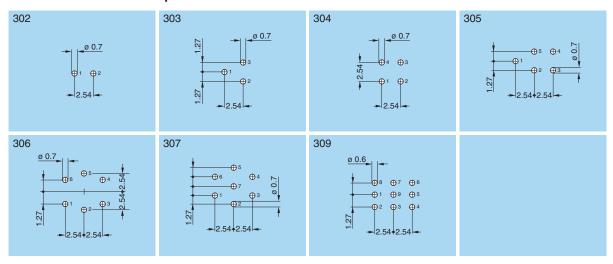


PCB drilling pattern

Fixed socket with straight print contact



Fixed socket with elbow print contact



Tooling

For crimp contact tooling see 0B series in the unipole/multipole catalogue.

Cable asssembly



LEMO HEADQUARTERS

SWITZERLANI

Chemin des Champs-Courbes 28 - P.O. Box 194 - CH-1024 Ecublens Tel. (+41 21) 695 16 00 - Fax (+41 21) 695 16 02 - e-mail: info@lemo.com

www.lemo.com