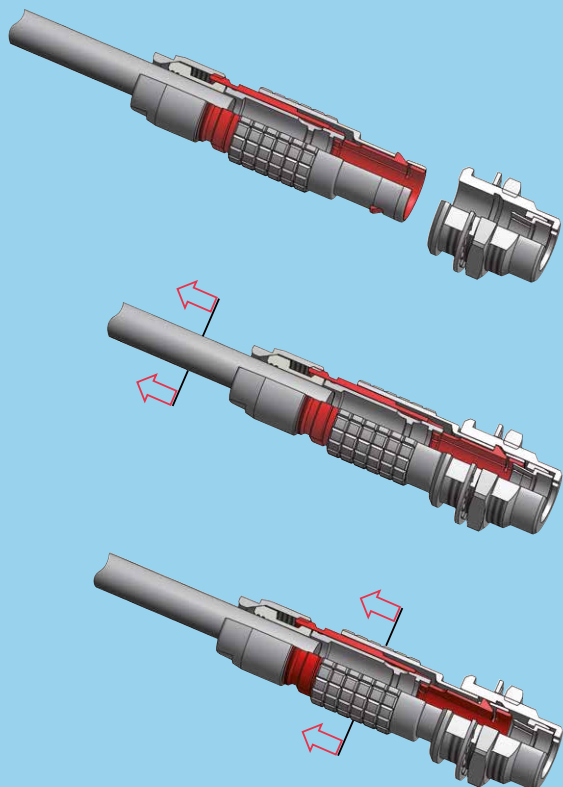


T SERIES
IP 68 PUSH-PULL CONNECTORS



LEMO's Push-Pull Self-Latching Connection System

This self-latching system is renowned worldwide for its easy and quick mating and unmating features. It provides absolute security against vibration, shock or pull on the cable, and facilitates operation in a very limited space.



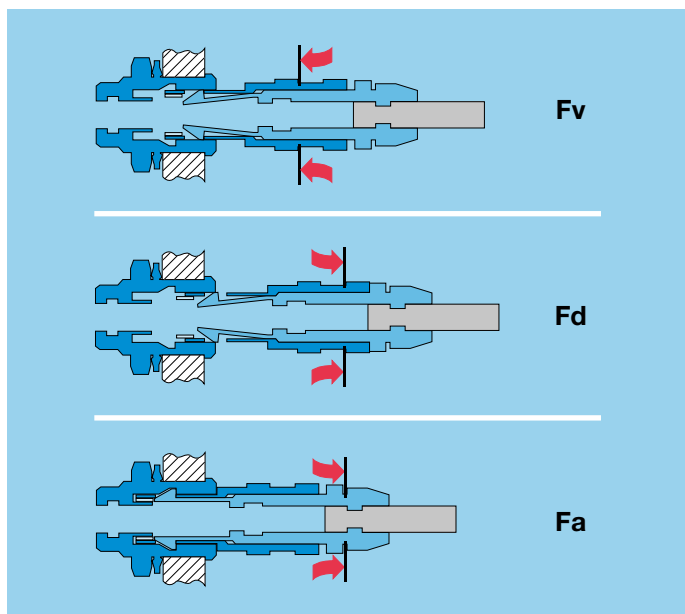
The LEMO self-latching system allows the connector to be mated by simply pushing the plug axially into the socket.

Once firmly latched, connection cannot be broken by pulling on the cable or any other component part other than the outer release sleeve.

When required, the connector is disengaged by a single axial pull on the outer release sleeve. This first disengages the latches and then withdraws the plug from the socket.

Technical Characteristics

Mechanical latching characteristics



Keyed watertight series

Force (N)	Series				
	TT	0T	1T	2T	3T
Fv	14	15	16	20	28
Fd	12	13	14	15	24
Fa	80	130	250	250	400

Notes: forces were measured on outer shells **not fitted with contacts**.
Mechanical endurance: 3000 cycles. Average pull force (Fa) with axial pull on the collet nut is about 50% of Fa values after 3000 cycles.
 The values were measured according to the standard IEC 60512-7 test 13a.

1N = 0.102 kg.

Fv: average latching force.

Fd: average unmating force with axial pull on the outer shell.

Fa: average pull force with axial pull on the collet nut

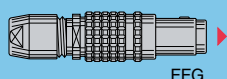
T series

T 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 B sockets
- Same mounting hole as B sockets
- Black-chrome plated brass and plastic outershell available
- Multipole types 2 to 32 contacts
- For cables 1.0 up to 10.5 mm
- Solder, crimp or print contacts

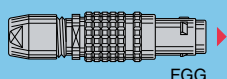
Chrome-plated housing models (page 3)

Straight plug



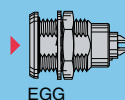
FFG

Straight plugs

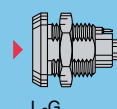


FGG

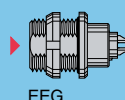
Fixed sockets



EGG

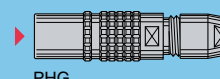


L.G

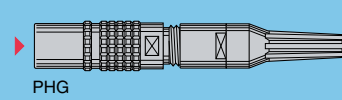


EEG

Free sockets

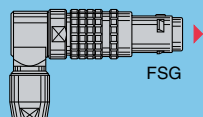


PHG

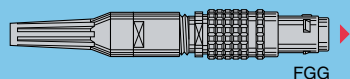


PHG

Elbow plug



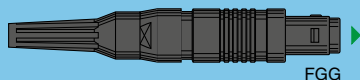
FSG



FGG

Plastic housing models (page 7)

Straight plug



FGG

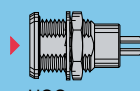
Fixed socket



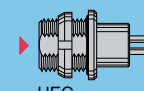
EGG

Watertight or vacuumtight models (page 6)

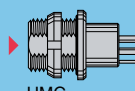
Fixed sockets



HGG



HEG

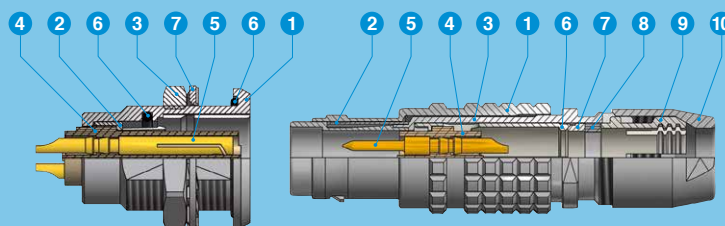


HMG

Part Section Showing Internal Components

Fixed socket

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

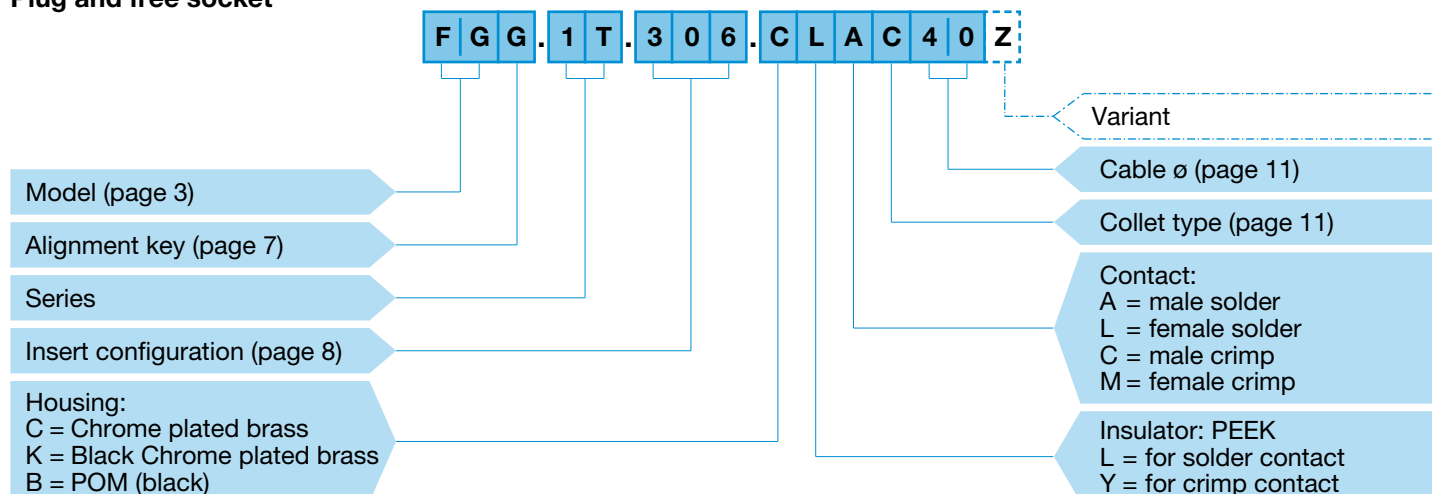


Straight plug

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

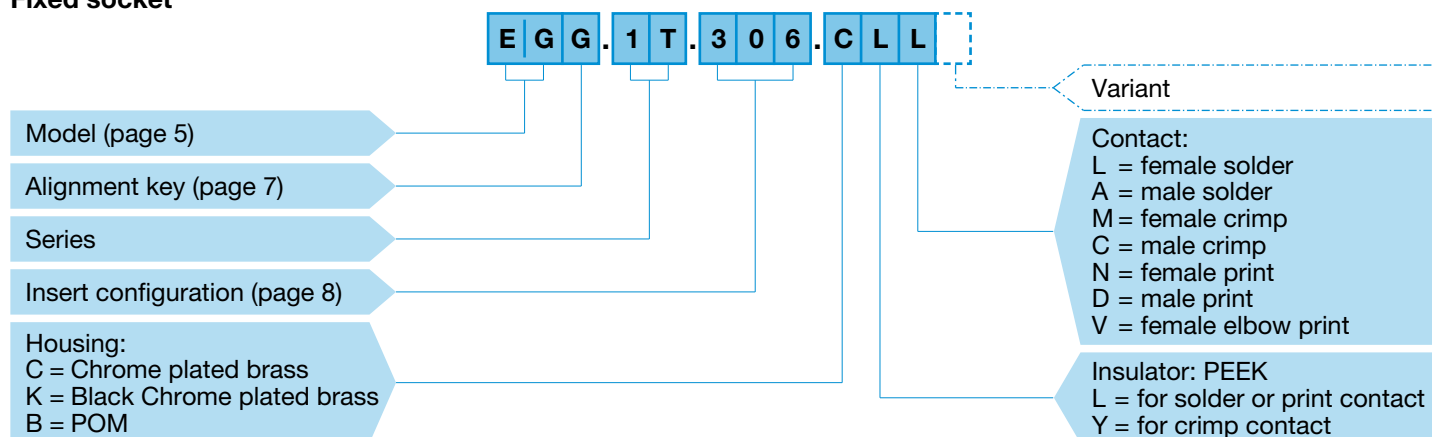
Part Numbering System

Plug and free socket



FGG.1T.306.CLAC40Z = Straight plug with key (G) and cable collet for bend relief, 1T series, multipole type with 6 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.

Fixed socket



EGG.1T.306.CLL = fixed socket, nut fixing, with key (G), 1T series, multipole type with 6 contacts, outer shell in chrome-plated brass, PEEK insulator, female solder contacts.



Chrome-plated housing models

Technical Characteristics

Contacts

Material	Contact type
Brass (UNS C 34500)	Male contact
Bronze (UNS C 54400)	Female contact

Electrical

Characteristics	Value	Standard
Shielding efficiency	at 10 MHz	> 75 dB
	at 1 GHz	> 40 dB
		IEC 60169-1-3
		IEC 60169-1-3

Note: the various tests have been carried out with FGG and EGG connector pairs, with chrome-plated brass shell and PEEK insulator.

Mechanical and Climatical

Characteristics	Value	Standard
Endurance	> 3000 cycles	IEC 60512-5 test 9a
Humidity	up to 95% at 60° C	
Temperature range ¹⁾	- 55° C, + 200° C / (-20°C, +80°C)	
Resistance to vibration	10-2000 Hz, 15g	IEC 60512-4 test 6d
Shock resistance	100 g, 6 ms	IEC 60512-4 test 6c
Salt spray corrosion test ⁵⁾	> 1000h	IEC 60512-6 test 11f
Protection index (mated) ²⁾	IP 68/IP 66	IEC 60529
Latching retention force ^{3) 4)}	From 85 N up to 300 N	
Climatical category	50/175/21	IEC 60068-1

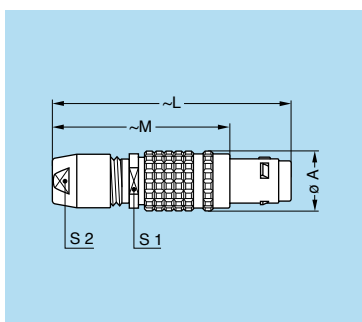
Material and treatments

Component	Material	Surface treatment
Outershell and collet nut	Brass	Chrome
	Brass	Black chrome ⁶⁾
	POM	–
Latch sleeve/earthing crown	Brass/Bronze	Nickel
Other metallic components	Brass	Nickel

Note: ⁶⁾ Surface not conductive use socket with earthing tag (HMG).

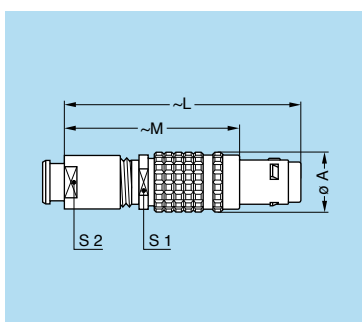
Note: ¹⁾ operating temperature is -20°C, +80°C for watertight or vacuumtight models fitted with an FPM (Viton®) o-ring and Epoxy.
²⁾ IP68 achieved providing that the cable is perfectly circular and that assembly process ensures a high integrity seal.
³⁾ average value.
⁴⁾ depending of the size.
⁵⁾ for chrome plated product («C» material code).

FGG Straight plug, cable collet



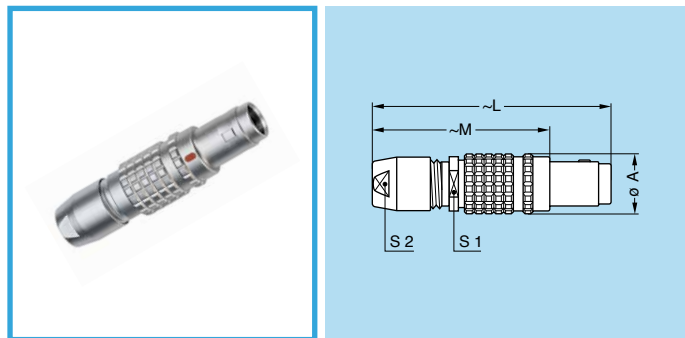
Reference		Dimensions (mm)					Cable ø	
Model	Series	A	L	M	S1	S2	min.	max.
FGG	TT	7.0	33.2	25.2	5.5	5	2.4	3.0
FGG	0T	9.5	39.0	29.0	7.5	7	1.0	5.0
FGG	1T	12.0	46.0	35.0	11.0	9	1.3	6.5
FGG	2T	15.0	55.0	43.0	14.0	12	1.3	8.5
FGG	3T	18.8	64.0	49.0	16.0	14	2.6	10.5

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



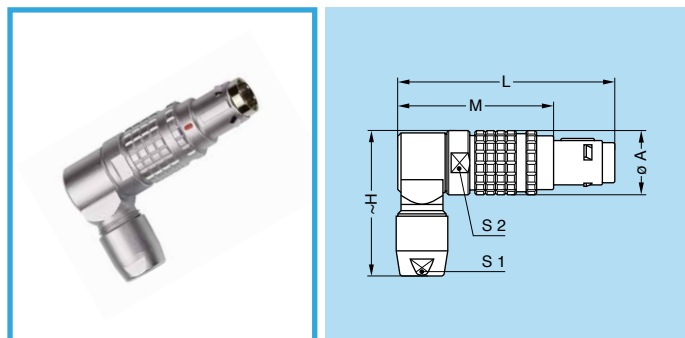
Reference		Dimensions (mm)					Cable ø	
Model	Series	A	L	M	S1	S2	min.	max.
FGG	TT	7.0	32.7	24.7	5.5	6	2.4	3.0
FGG	0T	9.5	38.0	28.0	7.5	7	1.0	5.0
FGG	1T	12.0	45.0	34.0	11.0	9	1.3	6.5
FGG	2T	15.0	54.0	42.0	14.0	12	1.3	8.5
FGG	3T	18.8	62.0	47.0	16.0	15	2.6	10.5

FFG Straight plug, non latching, cable collet



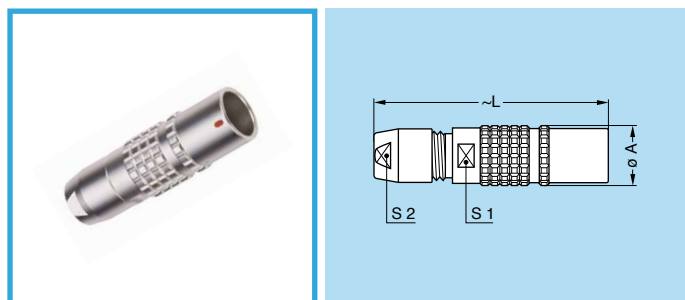
Reference		Dimensions (mm)					Cable ø	
Model	Series	A	L	M	S1	S2	min.	max.
FFG	TT	7.0	33.2	25.2	5.5	5	2.4	3.0
FFG	0T	9.5	39.0	29.0	8.0	7	1.0	5.0
FFG	1T	12.0	46.0	35.0	10.0	9	1.3	6.5
FFG	2T	15.0	55.0	43.0	13.0	12	1.3	8.5
FFG	3T	18.8	64.0	49.0	16.0	14	2.6	10.5

FSG Adjustable right angle plug



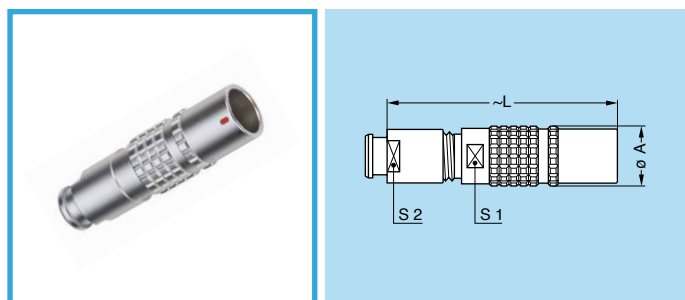
Reference		Dimensions (mm)						Cable ø	
Model	Series	A	H	L	M	S1	S2	min.	max.
FSG	TT	8	20.0	28.5	20.5	5	7.5	2.4	3.0
FSG	0T	10	23.0	36.0	26.0	7	9.5	1.0	5.0
FSG	1T	13	30.0	43.5	32.5	9	12.0	1.3	6.5
FSG	2T	17	37.5	54.0	42.0	12	16.0	1.3	8.5

PHG Free socket, cable collet



Reference		Dimensions (mm)				Cable ø	
Model	Series	A	L	S1	S2	min.	max.
PHG	TT	7.0	32.0	5.5	5	2.4	3.0
PHG	0T	9.5	38.0	8.0	7	1.0	5.0
PHG	1T	12.0	43.5	10.0	9	1.3	6.5
PHG	2T	15.0	52.0	14.0	12	1.3	8.5
PHG	3T	18.8	61.5	16.0	14	2.6	10.5

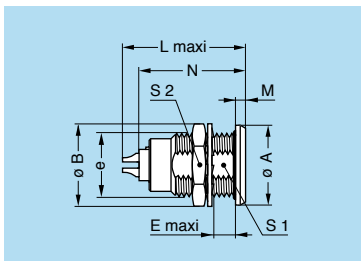
PHG Free socket, cable collet and nut for fitting a bend relief



Reference		Dimensions (mm)				Cable ø	
Model	Series	A	L	S1	S2	min.	max.
PHG	TT	7.0	31.5	5.5	6	2.4	3.0
PHG	0T	9.5	37.0	8.0	7	1.0	5.0
PHG	1T	12.0	42.5	10.0	9	1.3	6.5
PHG	2T	15.0	51.0	14.0	12	1.3	8.5
PHG	3T	18.8	60.0	16.0	15	2.6	10.5



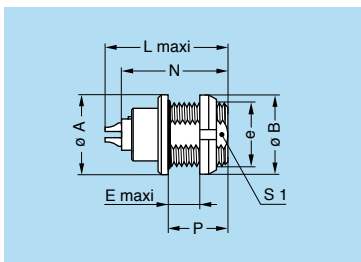
EGG Fixed socket, nut fixing



Note: ¹⁾ maximum length with crimp contacts.

Reference		Dimensions (mm)								
Model	Series	A	B	e	E	L	M	N ¹⁾	S1	S2
EGG	TT	10.0	10.2	M7x0.5	5.5	16.0	1.2	13.5	6.3	9
EGG	0T	12.0	12.5	M9x0.6	6.0	21.0	1.5	19.1	8.2	11
EGG	1T	15.5	16.0	M12x1.0	6.0	23.0	1.8	21.5	10.5	14
EGG	2T	18.5	19.6	M15x1.0	7.5	26.5	1.8	24.6	13.5	17
EGG	3T	23.5	25.1	M18x1.0	9.6	30.1	2.5	25.0	16.5	22

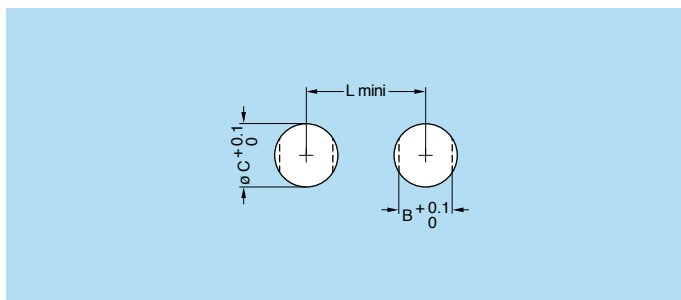
EEG Fixed socket, nut fixing, back panel mounting



Note: ¹⁾ maximum length with crimp contacts.

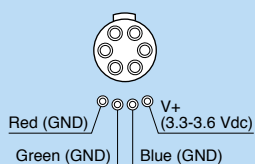
Reference		Dimensions (mm)								
Model	Series	A	B	e	E	L	N ¹⁾	P	S1	
EEG	TT	10.0	10.0	M7x0.5	4.5	16.0	13.5	7	6.3	
EEG	0T	12.0	12.0	M9x0.6	6.5	21.0	19.1	9	8.2	
EEG	1T	15.5	16.0	M12x1.0	6.5	23.0	21.5	10	10.5	
EEG	2T	18.5	20.0	M15x1.0	7.5	26.5	24.6	11	13.5	
EEG	3T	23.5	24.0	M18x1.0	7.5	30.1	25.0	12	16.5	

Panel cut-out



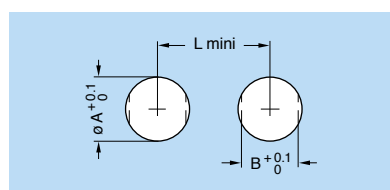
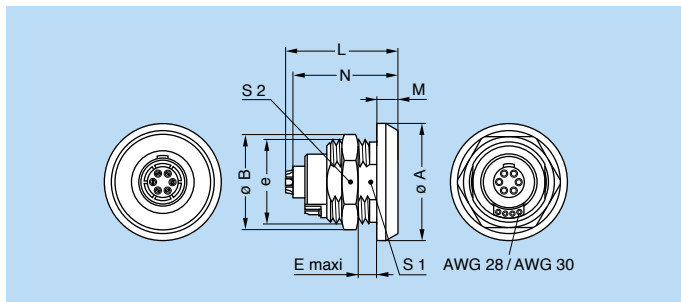
Reference		Panel cut-out			Mounting nut torque (Nm)	
Model	Series	B	C	L	Metal shell	Plastic shell
E●●	TT	6.4	7.1	12.5	1.0	0.4
E●●	0T	8.3	9.1	14.5	2.5	0.4
E●●	1T	10.6	12.1	18.5	4.5	0.7
E●●	2T	13.6	15.1	22.5	6.0	0.8
E●●	3T	16.6	18.1	27.0	9.0	1.0

L●G Fixed socket, nut fixing, key (G) or keys (A...L)

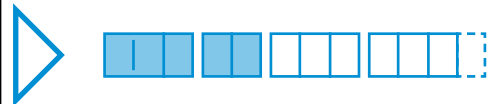


Reference		Dimensions (mm)								
Model	Series	A	B	e	E	L	M	N	S1	S2
L●G	0T	19	18.2	M13x0.75	4.0	18.5	5	16.0	11.5	16
L●G	1T	21	19.2	M15x1.00	5.8	21.0	5	18.5	13.5	17
L●G	2T	25	27.0	M20x1.00	6.5	24.1	5	21.5	18.5	24

Note: Only available with solder or crimp contacts.
LEG model is with LED flange, LNG model is with narrow LED flange and LMG model is with single standby LED flange.



Series	Dim. (mm)		
	A	B	L
0T	13.1	11.6	24
1T	15.1	13.6	26
2T	20.1	18.6	29



Watertight or vacuumtight models

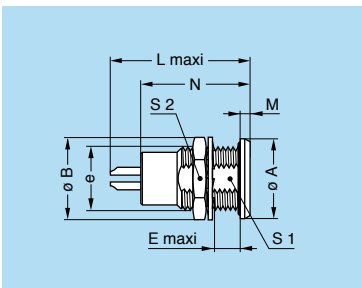
These models are identified by a letter «P» at the end of the reference. Most of these models are also available in a vacuum-tight version. Such models are identified by an additional letter «V» at the end of the part number (certificate on request). Epoxy resin is used to seal these models. The temperature range is -20°C / +80°C.

Part Number Example

HGG.0T.305.CLLP (5 contacts, resin potted)

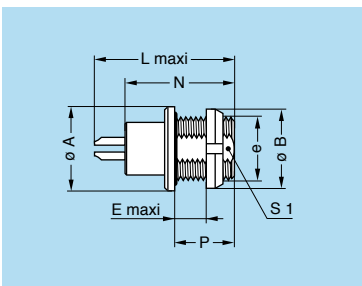
HGG.0T.305.CLLPV (5 contacts, resin potted and vacuumtight tested)

HGG Fixed socket, nut fixing, watertight or vacuumtight



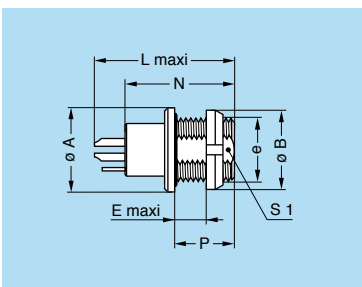
Reference		Dimensions (mm)								
Model	Series	A	B	e	E	L	M	N ¹⁾	S1	S2
HGG	TT	10.0	10.2	M7x0.5	5.5	18.0	1.2	15.0	6.3	9
HGG	0T	12.0	12.5	M9x0.6	6.5	22.0	1.5	18.5	8.2	11
HGG	1T	15.5	16.0	M12x1.0	6.0	26.0	1.8	21.5	10.5	14
HGG	2T	18.5	19.6	M15x1.0	8.0	30.5	1.8	25.0	13.5	17

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



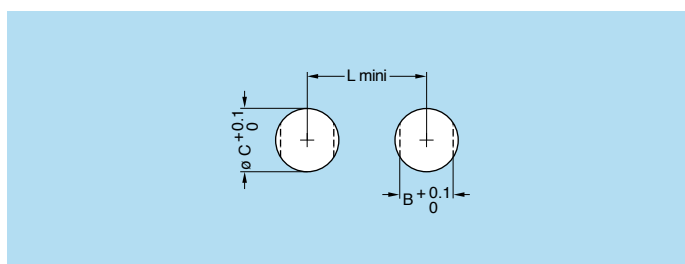
Reference		Dimensions (mm)							
Model	Series	A	B	e	E	L	N	P	S1
HEG	TT	10.0	10.0	M7x0.5	4.5	18.0	15.0	7	6.3
HEG	0T	12.0	12.0	M9x0.6	6.5	22.0	18.5	9	8.2
HEG	1T	15.5	16.0	M12x1.0	6.5	26.0	21.5	10	10.5
HEG	2T	18.5	20.0	M15x1.0	7.5	30.5	25.0	11	13.5

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

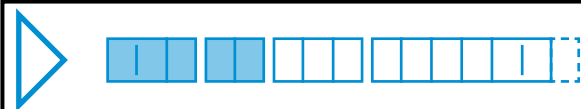


Reference		Dimensions (mm)							
Model	Series	A	B	e	E	L	N	P	S1
HMG	TT	10.0	10.0	M7x0.5	4.5	18.0	15.0	7	6.3
HMG	0T	12.0	12.0	M9x0.6	6.5	22.0	18.5	9	8.2
HMG	1T	15.5	16.0	M12x1.0	6.5	26.0	21.5	10	10.5
HMG	2T	18.5	20.0	M15x1.0	7.5	30.5	25.0	11	13.5

Panel cut-out

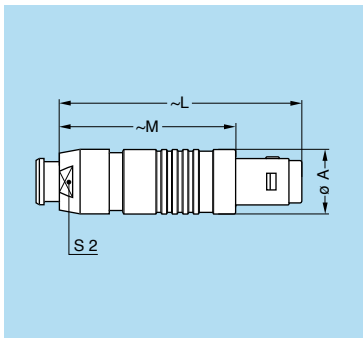


Reference		Panel cut-out			Mounting nut torque (Nm)	
Model	Series	B	C	L	Metal shell	Plastic shell
H●●	TT	6.4	7.1	12.5	1.0	0.4
H●●	0T	8.3	9.1	14.5	2.5	0.4
H●●	1T	10.6	12.1	18.5	4.5	0.7
H●●	2T	13.6	15.1	22.5	6.0	0.8



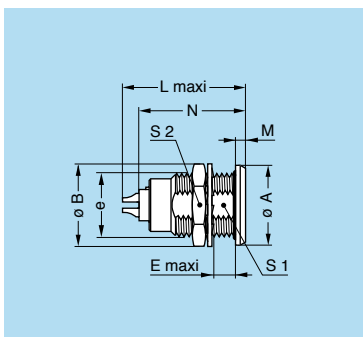
Plastic housing models

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



Reference		Dimensions (mm)				Cable ø	
Model	Series	A	L	M	S2	min.	max.
FGG	0T	9.7	38.5	28.5	8	1.0	5.0
FGG	1T	13.0	45.0	34.0	10	1.3	6.5

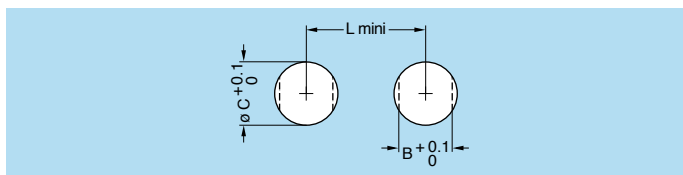
EGG Fixed socket, nut fixing, POM outer shell



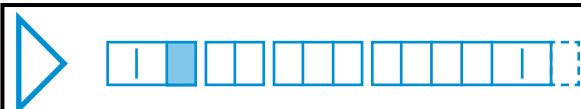
Reference		Dimensions (mm)								
Model	Series	A	B	e	E	L	M	N ¹⁾	S1	S2
EGG	0T	12.0	12.5	M9x0.6	6.0	21.0	1.5	19.1	8.2	11
EGG	1T	15.5	16.0	M12x1.0	6.0	23.0	1.8	21.5	10.5	14

Note: ¹⁾ maximum length with crimp contacts.

Panel cut-out



Reference		Panel cut-out		
Model	Series	B	C	L
E●●	0T	8.3	9.1	14.5
E●●	1T	10.6	12.1	18.5



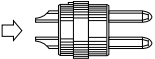
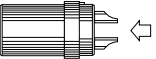
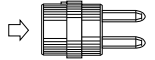
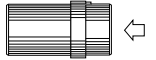
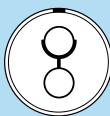
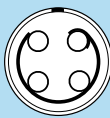
Alignment Key

	Key	Contact type	
		Plug	Socket
	G	male	female
	A	male	female
	D	male	female
	L	female	male
	J	female	male

Note: ¹⁾ for 2T and 3T series.

Insert configurations

Multipole

      Reference			Series	Contact ø (mm)	Contact type				AWG			Solder contact		Rated current (A)	
			Solder	Crimp	Print (straight)	Print (elbow)	Solder (max.)	Crimp		Test voltage (kV rms) Contact-contact	Test voltage (kV rms) Contact-shell				
								min.	max.						
2			302	TT	0.5	●	●	●	●	30	32	28	1.00	0.95	3.5
				0T	0.9	●	●	●	●	20	32	20	1.00	1.05	10.0
				1T	1.3	●	●	●	●	20	26	18	1.50	1.35	15.0
				2T	2.0	●	●	●	●	16	18	12	2.10	1.75	25.0
				3T	3.0	●	●	○	—	12	14	10	2.10	1.55	35.0
3			303	TT	0.5	●	●	●	●	30	32	28	0.80	0.95	3.0
				0T	0.9	●	●	●	●	20	32	20	1.20	0.90	8.0
				1T	1.3	●	●	●	●	20	26	18	1.30	1.55	12.0
				2T	1.6	●	●	●	●	18	22	14	2.40	1.85	17.0
				3T	2.0	●	●	●	○	16	18	12	1.90	1.50	25.0
4			304	TT	0.5	●	●	●	●	30	32	28	0.80	0.65	2.0
				0T	0.7	●	●	●	●	22	32	22	0.85	0.70	7.0
				1T	0.9	●	●	●	●	22	32	20	1.35	1.45	10.0
				2T	1.3	●	●	●	●	20	26	18	1.85	1.85	15.0
				3T	2.0	●	●	●	●	16	18	12	1.45	1.25	19.0
5			305												
				TT	0.35	●	—	●	—	30	—	—	0.70	1.00	1.7
5			305	0T	0.7	●	●	●	●	22	32	22	1.00	0.70	6.5
				1T	0.9	●	●	●	●	22	32	20	1.25	1.15	9.0
				2T	1.3	●	●	●	●	20	26	18	1.75	1.60	14.0
				3T	1.6	●	●	●	●	18	22	14	1.90	1.25	19.0
6			306												
				0T	0.5	●	○ ¹⁾	●	●	28	32	28	0.85	0.65	2.5
				1T	0.7	●	●	●	●	22	32	22	1.05	1.20	7.0

Note: 1) available only for connectors fitted with male contacts.

● First choice alternative ○ Special order alternative



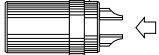
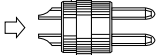
Multipole

Solder contacts Crimp contacts			Reference	Series	Contact ø (mm)	Contact type				AWG			Solder contact		Rated current (A)
		Solder				Crimp	Print (straight)	Print (elbow)	Solder (max.)	Crimp		Test voltage (kV rms) Contact-contact	Test voltage (kV rms) Contact-shell		
										min.	max.				
6			306	TT	0.35	●	–	–	–	30	–	–	0.60	0.75	1.5
				2T	1.3	●	●	●	●	20	26	18	1.35	1.45	12.0
				3T	1.6	●	●	●	●	18	22	14	1.60	1.15	17.0
7			307	0T	0.5	●	○ ¹⁾	●	●	28	32	28	0.80	0.70	2.5
				1T	0.7	●	●	●	●	22	32	22	0.95	1.05	7.0
				2T	1.3	●	●	●	●	20	26	18	1.75	1.60	11.0
				3T	1.6	●	●	●	●	18	22	14	1.70	1.25	15.0
8			308	1T	0.7	●	●	●	●	22	32	22	0.95	1.15	5.0
8			308	2T	0.9	●	●	●	●	22	32	20	1.50	1.25	10.0
				3T	1.3	●	●	●	●	20	26	18	1.65	1.15	13.0
9			309	0T	0.5	●	○ ¹⁾	●	●	28	32	28	0.60	0.50	2.0
				3T	8x1.3 1x2.0	●	●	●	–	20 16	26 18	18 12	1.35	1.05	6.0 15.0
10			310	1T	0.5	●	● ¹⁾	●	●	28	32	28	0.90	1.50	2.5
				2T	0.9	●	●	●	●	22	32	20	1.45	1.30	8.0
				3T	1.3	●	●	●	●	20	26	18	1.25	0.90	12.0
12			312	0T	0.35	●	–	●	–	30	–	–	0.80	1.00	1.5
12			312	2T	0.7	●	●	●	●	22	32	22	1.25	1.35	7.0
				3T	0.9	●	●	●	●	22	32	20	1.45	1.00	9.0
14			314	1T	0.5	●	● ¹⁾	●	●	28	32	28	0.80	1.20	2.0
				2T	0.7	●	●	●	●	22	32	22	1.15	1.35	6.5
				3T	0.9	●	●	●	●	22	32	20	1.20	1.20	9.0

Note: ¹⁾ available only for connectors fitted with male contacts.

● First choice alternative ○ Special order alternative

Multipole

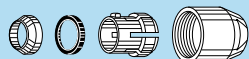
		Solder contacts 		Crimp contacts 		Reference	Series	Contact ø (mm)	Contact type				AWG			Solder contact		Rated current (A)
		Solder	Crimp	Print (straight)	Print (elbow)				Solder (max.)	Crimp		Test voltage (kV rms) Contact-contact	Test voltage (kV rms) Contact-shell					
										min.	max.							
16			316	1T	0.5	●	● ¹⁾	●	○	28	32	28	0.80	1.25	1.5			
16			316	2T	0.7	●	●	●	●	22	32	22	0.95	1.25	6.0			
				3T	0.9	●	●	●	●	22	32	20	1.20	0.85	8.0			
18			318	2T	0.7	●	●	●	●	22	32	22	0.85	1.20	5.5			
				3T	0.9	●	●	●	●	22	32	20	1.20	1.05	7.0			
19			319	2T	0.7	●	●	●	●	22	32	22	0.95	1.25	5.0			
20			320	3T	0.7	●	●	●	●	22	32	22	1.00	0.90	6.0			
22			322	3T	0.7	●	●	●	○	22	32	22	1.00	0.90	5.5			
24			324	3T	0.7	●	●	●	●	22	32	22	0.95	0.80	4.0			
26			326	2T	0.5	●	–	●	●	28	–	–	0.95	1.30	2.0			
				3T	0.7	●	●	●	●	22	32	22	0.95	0.70	4.0			
30			330	3T	0.7	●	●	●	●	22	32	22	0.80	0.70	3.5			
32			332	2T	0.5	●	–	●	●	28	–	–	0.80	1.20	1.5			

Note: ¹⁾ available only for connectors fitted with male contacts.

● First choice alternative ○ Special order alternative



Collets



	Type	Cable ø (mm)		Note
		min.	max.	
TT	C27	2.4	2.6	
	C31	2.7	3.0	
OT	C10	1.0	1.2	1)
	C15	1.3	1.5	1)
	C20	1.6	2.0	1)
	C25	2.1	2.5	
	C30	2.6	3.0	
	C35	3.1	3.5	
	C40	3.6	4.0	
	C45	4.1	4.5	
	K50	4.6	5.0	2)
	K55	5.1	5.5	2)
	K60	5.6	6.0	2)
	K65	6.1	6.5	2)
1T	C15	1.3	1.5	
	C20	1.6	2.0	
	C25	2.1	2.5	
	C30	2.6	3.0	
	C35	3.1	3.5	
	C40	3.6	4.0	
	C45	4.1	4.5	
	C50	4.6	5.0	
	C55	5.1	5.5	
	C60	5.6	6.0	
	C65	6.1	6.5	
	K70	6.6	7.0	3)
	K75	7.1	7.5	3)
	K80	7.6	8.0	3)
	K85	8.1	8.5	3)

	Type	Cable ø (mm)		Note
		min.	max.	
2T	C15	1.3	1.5	
	C20	1.6	2.0	
	C25	2.1	2.5	
	C30	2.6	3.0	
	C35	3.1	3.5	
	C40	3.6	4.0	
	C45	4.1	4.5	
	C50	4.6	5.0	
	C55	5.1	5.5	
	C60	5.6	6.0	
	C65	6.1	6.5	
	C70	6.6	7.0	
	C75	7.1	7.5	
	C80	7.6	8.0	
	C85	8.1	8.5	
	K90	8.6	9.0	4)
	K95	9.1	9.5	4)
	K10	9.6	10.0	4)
	K11	10.1	10.5	4)

	Type	Cable ø (mm)		Note
		min.	max.	
3T	C30	2.6	3.0	
	C35	3.1	3.5	
	C40	3.6	4.0	
	C45	4.1	4.5	
	C50	4.6	5.0	
	C55	5.1	5.5	
	C60	5.6	6.0	
	C65	6.1	6.5	
	C70	6.6	7.0	
	C75	7.1	7.5	
	C80	7.6	8.0	
	C85	8.1	8.5	
	C90	8.6	9.0	
	C95	9.1	9.5	
	C10	9.6	10.0	
	C11	10.1	10.5	
	K11	10.6	12.0	
	K12	12.1	12.8	
	K13	12.9	13.5	
	K14	13.6	14.0	
	K15	14.1	15.0	5)

Note: all dimensions are in millimetres.

1) the inner diameter of the smallest bend relief available is 2.5 mm (in TPU) / 1.7 mm (in silicone).

2) for 1B bend relief.

3) for 2B bend relief.

4) for 3B bend relief.

5) the inner diameter of the largest bend relief available is 14.5 mm.

Spare parts for crimp contacts

	Types	Insulator part number		ø (mm)		Fig.	Cond. AWG		Contact part number	
		Male contact	Female contact	A	C		min.	max.	Male	Female
TT	302/303/304	FGG.00.30●.YL	EGG.00.40●.YL	0.5	0.45	1	32	28	FGG.00.554.ZZC	EGG.00.654.ZZM
OT	302/303	FGG.0B.30●.YL	EGG.0B.40●.YL	0.9	1.10	1	24	20	FGG.0B.560.ZZC	EGG.0B.660.ZZM
					0.80	2	26	22	FGG.0B.561.ZZC	EGG.0B.661.ZZM
					0.45	2	32	28	FGG.0B.562.ZZC	EGG.0B.662.ZZM
	304/305	FGG.0B.30●.YL	EGG.0B.40●.YL	0.7	0.80	1	26	22	FGG.0B.555.ZZC	EGG.0B.655.ZZM
					0.45	2	32	28	FGG.0B.556.ZZC	EGG.0B.656.ZZM
	306/307/309	FGG.0B.30●.YL	–	0.5	0.45	1	32	28	FGG.0B.554.ZZC	–
1T	302/303	FGG.1B.30●.YL	EGG.1B.40●.YL	1.3	1.40	1	20	18	FGG.1B.565.ZZC	EGG.1B.665.ZZM
					1.10	2	24	20	FGG.1B.566.ZZC	EGG.1B.666.ZZM
	304/305	FGG.1B.30●.YL	EGG.1B.40●.YL	0.9	1.10	1	24	20	FGG.1B.560.ZZC	EGG.1B.660.ZZM
					0.80	2	26	22	FGG.1B.561.ZZC	EGG.1B.661.ZZM
	306/307/308	FGG.1B.30●.YL	EGG.1B.40●.YL	0.7	0.80	1	26	22	FGG.1B.555.ZZC	EGG.1B.655.ZZM
					0.45	2	32	28	FGG.1B.556.ZZC	EGG.1B.656.ZZM
	310/314/316	FGG.1B.3●●.YL	–	0.5	0.45	1	32	28	FGG.1B.554.ZZC	–
2T	302	FGG.2B.302.YL	EGG.2B.402.YL	2.0	2.40	1	16	12	FGG.2B.575.ZZC	EGG.2B.675.ZZM
					1.90	2	18	14	FGG.2B.576.ZZC	EGG.2B.676.ZZM
	303	FGG.2B.303.YL	EGG.2B.403.YL	1.6	1.90	1	18	14	FGG.2B.570.ZZC	EGG.2B.670.ZZM
					1.40	2	22	18	FGG.2B.571.ZZC	EGG.2B.671.ZZM
	304/305 306/307	FGG.2B.30●.YL	EGG.2B.40●.YL	1.3	1.40	1	20	18	FGG.2B.565.ZZC	EGG.2B.665.ZZM
					1.10	2	24	20	FGG.2B.566.ZZC	EGG.2B.666.ZZM
					0.80	2	26	22	FGG.2B.567.ZZC	EGG.2B.667.ZZM
	308/310	FGG.2B.3●●.YL	EGG.2B.4●●.YL	0.9	1.10	1	24	20	FGG.2B.560.ZZC	EGG.2B.660.ZZM
					0.80	2	26	22	FGG.2B.561.ZZC	EGG.2B.661.ZZM
					0.45	2	32	28	FGG.2B.562.ZZC	EGG.2B.662.ZZM
	312/314/316 318/319	FGG.2B.3●●.YL	EGG.2B.4●●.YL	0.7	0.80	1	26	22	FGG.2B.555.ZZC	EGG.2B.655.ZZM
					0.45	2	32	28	FGG.2B.556.ZZC	EGG.2B.656.ZZM
3T	302	FGG.3B.302.YL	EGG.3B.402.YL	3.0	3.20	1	14	10	FGG.3B.580.ZZC	EGG.3B.680.ZZM
	303/304/309	FGG.3B.30●.YL ¹⁾	EGG.3B.40●.YL ¹⁾	2.0	2.40	1	16	12	FGG.3B.575.ZZC	EGG.3B.675.ZZM
					1.90	2	18	14	FGG.3B.576.ZZC	EGG.3B.676.ZZM
	305/306/307	FGG.3B.30●.YL	EGG.3B.40●.YL	1.6	1.90	1	18	14	FGG.3B.570.ZZC	EGG.3B.670.ZZM
					1.40	2	22	18	FGG.3B.571.ZZC	EGG.3B.671.ZZM
	308/309/310	FGG.3B.3●●.YL ¹⁾	EGG.3B.4●●.YL ¹⁾	1.3	1.40	1	20	18	FGG.3B.565.ZZC	EGG.3B.665.ZZM
					1.10	2	24	20	FGG.3B.566.ZZC	EGG.3B.666.ZZM
					1.10	1	24	20	FGG.3B.560.ZZC	EGG.3B.660.ZZM
	312/314 316/318	FGG.3B.3●●.YL	EGG.3B.4●●.YL	0.9	0.80	2	26	22	FGG.3B.561.ZZC	EGG.3B.661.ZZM
					0.45	2	32	28	FGG.3B.562.ZZC	EGG.3B.662.ZZM
					0.80	1	26	22	FGG.3B.555.ZZC	EGG.3B.655.ZZM
	320/322/324 326/330	FGG.3B.3●●.YL	EGG.3B.4●●.YL	0.7	0.45	2	32	28	FGG.3B.556.ZZC	EGG.3B.656.ZZM
					0.45	2	32	28	FGG.3B.556.ZZC	EGG.3B.656.ZZM

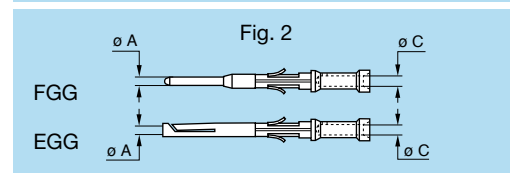
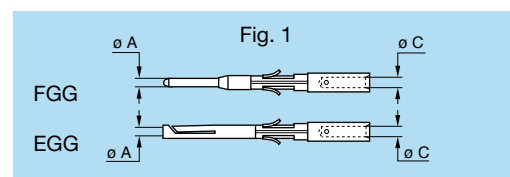
Note: ¹⁾ for 309 type the insulator part number is FGG.3B.309.ML (male contact) and EGG.3B.409.ML (female contact).

Tools for crimp contacts

	Types	Positioners part number		Extractors part number for male/female contacts
		Male contact	Female contact	
TT	302/303/304	DCE.91.050.0VC	DCE.91.050.0VM	DCF.91.050.2LT
OT	302/303	DCE.91.090.BVC	DCE.91.090.BVM	DCF.91.090.2LT
		DCE.91.090.AVC	DCE.91.090.AVM	
	304/305	DCE.91.070.BVC	DCE.91.070.BVM	DCF.92.070.3LT
	306/307/309	DCE.91.050.BVC	DCE.91.050.BVM	DCF.91.050.2LT
1T	302/303	DCE.91.131.BVC	DCE.91.131.BVM	DCF.91.131.2LT
	304/305	DCE.91.091.BVC	DCE.91.091.BVM	DCF.91.090.2LT
	306/307/308	DCE.91.071.BVC	DCE.91.071.BVM	DCF.91.070.2LT
	310/314/316	DCE.91.051.BVC	DCE.91.051.BVM	DCF.91.050.2LT
2T	302	DCE.91.202.BVCM		DCC.91.202.5LA ²⁾
	303	DCE.91.162.BVCM		DCF.91.162.2LT
	304/305 306/307	DCE.91.132.BVC	DCE.91.132.BVM	DCF.91.131.2LT
		DCE.91.132.CVC	DCE.91.132.CVM	
	308/310	DCE.91.092.BVC	DCE.91.092.BVM	DCF.91.090.2LT
		DCE.91.092.AVC	DCE.91.092.AVM	
	312/314/316 318/319	DCE.91.072.BVC	DCE.91.072.BVM	DCF.91.070.2LT
3T	302	DCE.91.303.BVCM		DCF.91.303.5LT
	303/304/309	DCE.91.203.BVCM		DCC.91.202.5LA ²⁾
	305/306/307	DCE.91.163.BVCM		DCF.91.163.5LT
	308/309/310	DCE.91.133.BVC	DCE.91.133.BVM	DCF.91.133.5LT
	312/314 316/318	DCE.91.093.BVC	DCE.91.093.BVM	DCF.91.093.5LT
		DCE.91.093.BVG	DCE.91.093.BVU	
	320/322/324 326/330	DCE.91.073.BVC	DCE.91.073.BVM	DCF.92.070.3LT

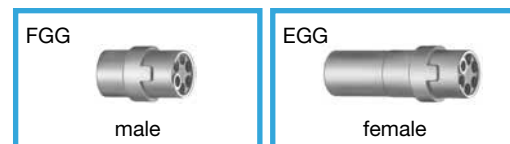
Note: ²⁾ this model is thumb-operated.

FGG-EGG Crimp contacts



Note: a wide variation of strand number and diameter combinations are quoted as being AWG, some of which do not have a large enough cross section to guarantee a crimp as per either MIL-C-22520/1-01 or /7-01.

FGG-EGG Insulators



Note: each insulator can be used both for crimp contacts of normal shape (fig. 1) or with reduced solder cups (fig. 2).

DCE Positioners ø 0.5, 0.7, 0.9, 1.3 mm



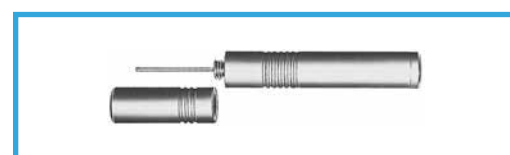
These positioners are suitable for use with both manual and pneumatic crimping tools according to the MIL-C-22520/7-01 standard.

DCE Turret for ø 1.6, 2.0, 3.0, 4.0 mm



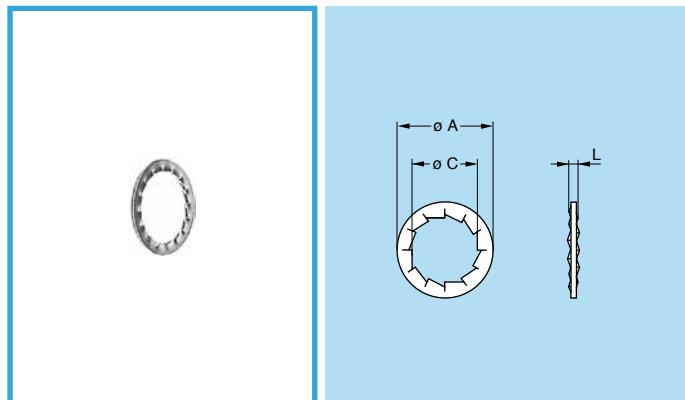
Note: these turrets can be used with manual crimping tool according to MIL-C-22520/1-01 standard.

DCF Automatic extraction tools



Spare parts

GBA Locking washers

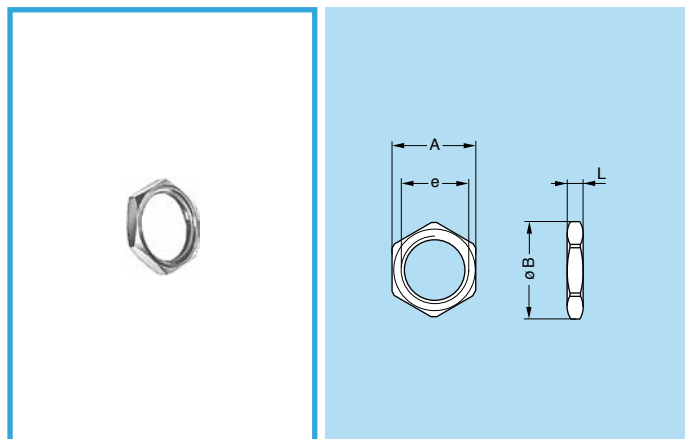


- Material: Nickel-plated bronze (3 µm)

Part number	Series	Dimensions (mm)		
		A	C	L
GBA.00.250.FN	TT	9.5	7.1	1.0
GBA.0S.250.FN	0T	12.5	9.1	1.0
GBA.1S.250.FN	1T	16.0	12.1	1.0
GBA.2S.250.FN	2T	19.5	15.1	1.2
GBA.3S.250.FN	3T	25.0	18.1	1.4

Note: to order this accessory separately, use the above part numbers.

GEA Hexagonal nuts

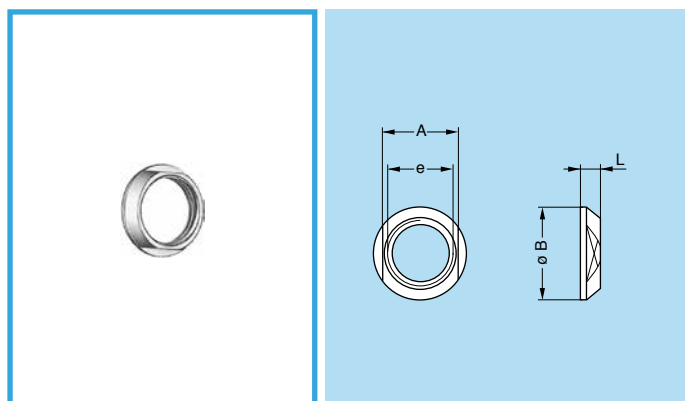


- Material: Nickel-plated brass (3 µm), Natural anodized aluminium alloy, Stainless steel

Part number	Series	Dimensions (mm)			
		A	B	e	L
GEA.00.240.LN	TT	9	10.2	M7 x 0.5	2.0
GEA.0S.240.LN	0T	11	12.4	M9 x 0.6	2.0
GEA.1S.240.LN	1T	14	15.8	M12 x 1.0	2.5
GEA.2S.240.LN	2T	17	19.2	M15 x 1.0	2.7
GEA.3S.240.LN	3T	22	25.0	M18 x 1.0	3.0

Note: to order this part separately, use the above part numbers. The last letters «LN» of the part number refer to the nut material and treatment. If a nut in aluminium alloy or stainless steel is desired, replace the last letters of the part number by «PT» or «AZ» respectively. See page 18 for the tooling.

GEC Conical nuts

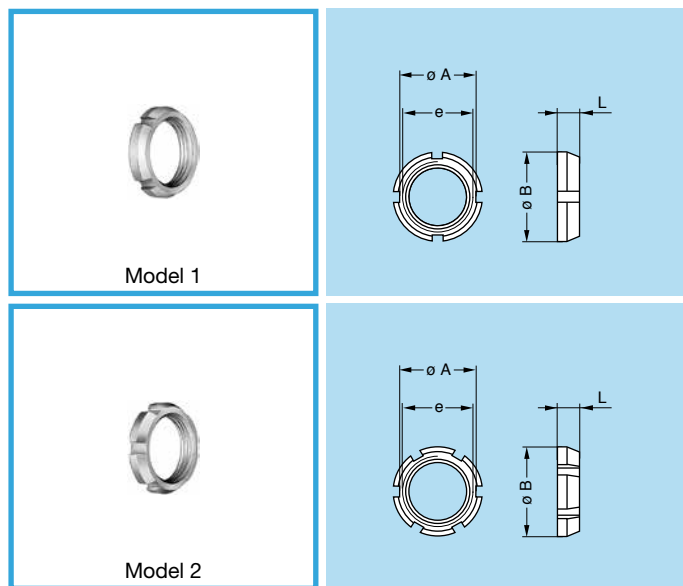


- Material: Chrome-plated brass (Ni 3 µm + Cr 0.3 µm)

Part number	Series	Dimensions (mm)			
		A	B	e	L
GEC.00.240.LC	TT	8	10	M7 x 0.5	2.5
GEC.0S.240.LC	0T	10	12	M9 x 0.6	2.5
GEC.1S.240.LC	1T	13	16	M12 x 1.0	3.2
GEC.2S.240.LC	2T	17	20	M15 x 1.0	3.8
GEC.3S.240.LC	3T	20	24	M18 x 1.0	4.5

Note: 3T series fixed and free sockets for back panel mounting are always delivered with a conical nut. To order this accessory separately, use the above part numbers. See page 18 for the tooling.

GEG Notched nuts



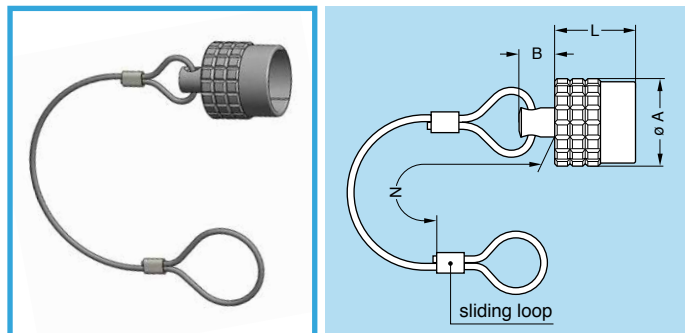
Part number	Series	Dimensions (mm)				Model
		A	B	e	L	
GEG.00.240.LC	TT	8.6	10	M7 x 0.5	2.5	1
GEG.0S.240.LC	0T	10.5	12	M9 x 0.6	2.5	1
GEG.1S.240.LC	1T	14.0	16	M12 x 1.0	3.5	1
GEG.2S.240.LC	2T	17.5	20	M15 x 1.0	3.5	2

Note: TT, 0T, 1T and 2T series fixed and free sockets for back panel mounting are always delivered with this notched nut. To order this accessory separately, use the above part numbers. See page 19 for the tooling.

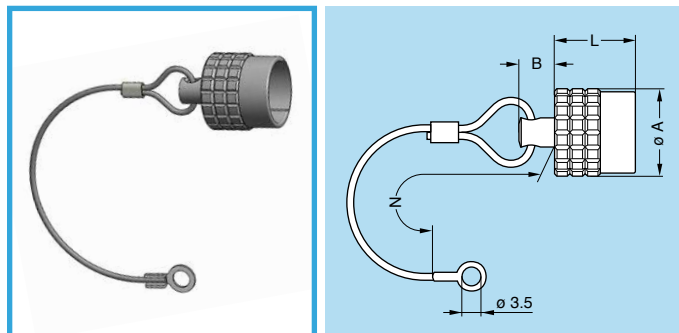
- Material: Chrome-plated brass (Ni 3 μm + Cr 0.3 μm)

Accessories

BFG Blanking caps for plugs



BHG Blanking caps for fixed plugs

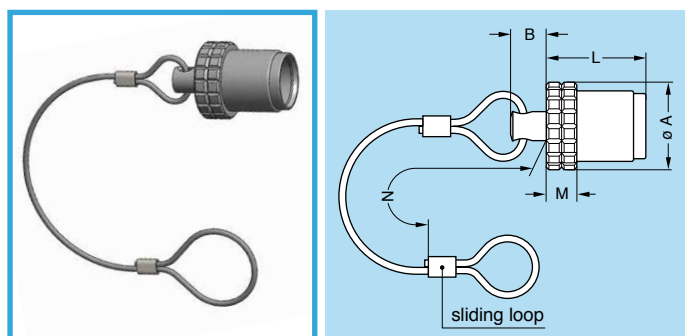


Part number	Dimensions (mm)				Part number
	A	B	L	N ¹⁾	
BFG.TT.100.CAS	7.0	4.3	9.0	60	BHG.TT.100.CAS
BFG.0T.100.CAS	9.5	5.0	11.0	85	BHG.0T.100.CAS
BFG.1T.100.CAS	12.0	6.3	12.4	85	BHG.1T.100.CAS
BFG.2T.100.CAS	15.0	6.4	13.8	85	BHG.2T.100.CAS
BFG.3T.100.CAS	18.8	6.4	17.6	120	BHG.3T.100.CAS

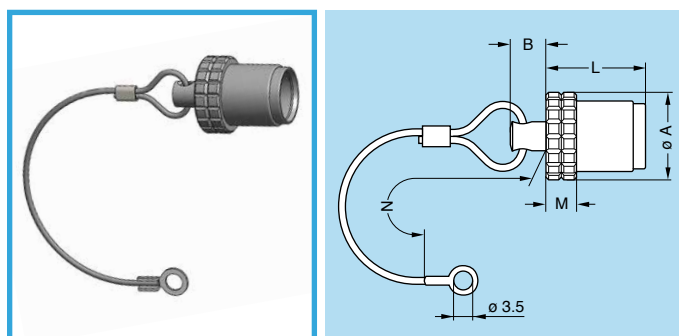
- Body material: Chrome-plated brass (Ni 3 µm)
- Lanyard material: Stainless steel
- Crimp ferrule material: Nickel-plated brass + polyolefin
- O-ring material: Silicone
- Operating temperature: -50°/135°C (Silicone rubber & Polyolefine)
- Watertightness: IP68 according to IEC 60529

Note: 1) the tolerance on this dimension is ± 5 mm.

BRF Blanking caps for free sockets



BRE Blanking caps for sockets

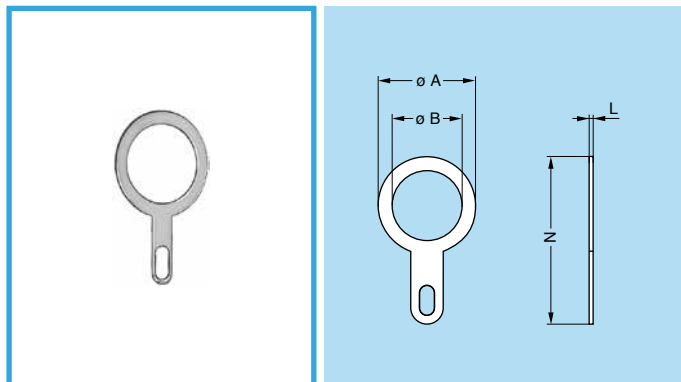


Part number	Dimensions (mm)					Part number
	A	B	L	M	N ¹⁾	
BRF.TT.200.CAZ	7.0	4.3	10.4	2.4	60	BRE.TT.200.CAZ
BRF.0T.200.CAZ	9.5	5.0	13.2	3.2	85	BRE.0T.200.CAZ
BRF.1T.200.CAZ	12.0	6.3	15.1	4.2	85	BRE.1T.200.CAZ
BRF.2T.200.CAZ	15.0	6.4	17.1	5.2	85	BRE.2T.200.CAZ
BRF.3T.200.CAZ	18.8	6.4	21.2	6.4	120	BRE.3T.200.CAZ

- Body material: Chrome-plated brass (Ni 3 µm)
- Lanyard material: Stainless steel
- Crimp ferrule material: Nickel-plated brass + polyolefin
- Operating temperature: -50°/135°C (Silicone rubber & Polyolefine)
- Watertightness: IP68 according to IEC 60529

Note: 1) the tolerance on this dimension is ± 5 mm.

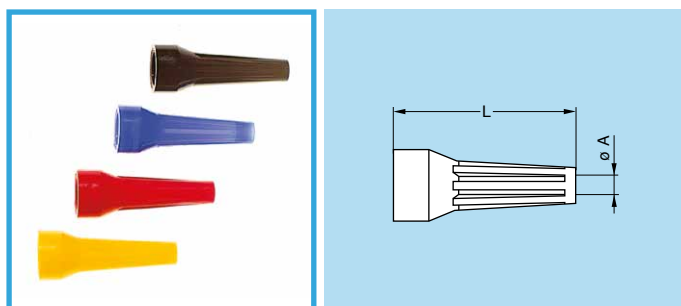
GCA Earthing washers



Part number	Series	Dimensions (mm)			
		A	B	L	N
GCA.00.255.LT	TT	9.5	7.1	0.4	18.2
GCA.0S.255.LT	0T	13.0	9.1	0.4	22.0
GCA.1S.255.LT	1T	17.0	12.2	0.5	27.5
GCA.2S.255.LT	2T	20.0	15.2	0.5	32.0
GCA.3S.255.LT	3T	25.0	18.2	0.5	39.0

● Material: CuSnZn plated brass (2 µm)

Bend relief (TPU)



A bend relief made from thermoplastic polyurethane elastomer can be fitted over LEMO plugs and sockets that are supplied with nut for fitting such bend relief. They are available in nine different colours match with the GRA insulating washers. Use the part numbers shown below to order this accessory separately.

	Part number	Bend relief		Cable ø	
		A	L	min.	max.
TT	GMB.00.025.DG ¹⁾	2.5	22	2.5	2.8
	GMB.00.028.DG ¹⁾	2.8	22	2.8	3.1
	GMB.00.032.DG ¹⁾	3.2	22	3.2	3.5
	GMD.00.025.DG ¹⁾	2.5	22	2.5	2.8
	GMD.00.028.DG ¹⁾	2.8	22	2.8	3.1
	GMD.00.032.DG ¹⁾	3.2	22	3.2	3.5
0T	GMA.0B.025.DG	2.5	24	2.5	2.9
	GMA.0B.030.DG	3.0	24	3.0	3.4
	GMA.0B.035.DG	3.5	24	3.5	3.9
	GMA.0B.040.DG ¹⁾	4.0	24	4.0	4.4
	GMA.0B.045.DG ¹⁾	4.5	24	4.5	5.2
1T	GMA.1B.025.DG	2.5	30	2.5	2.9
	GMA.1B.030.DG	3.0	30	3.0	3.4
	GMA.1B.035.DG	3.5	30	3.5	3.9
	GMA.1B.040.DG	4.0	30	4.0	4.4
	GMA.1B.045.DG	4.5	30	4.5	4.9
	GMA.1B.054.DG	5.4	30	5.4	6.0
	GMA.1B.065.DG ¹⁾	6.5	30	6.5	7.0

	Part number	Bend relief		Cable ø	
		A	L	min.	max.
2T	GMA.2B.040.DG	4.0	36	4.0	4.5
	GMA.2B.045.DG	4.5	36	4.5	5.0
	GMA.2B.050.DG	5.0	36	5.0	5.5
	GMA.2B.060.DG	6.0	36	6.0	6.5
	GMA.2B.070.DG	7.0	36	7.0	7.7
	GMA.2B.080.DG ¹⁾	7.8	36	7.8	8.8
3T	GMA.3B.050.DG ¹⁾	4.5	42	4.5	5.2
	GMA.3B.060.DG	6.0	42	6.0	6.9
	GMA.3B.070.DG	7.0	42	7.0	7.9
	GMA.3B.080.DG	8.0	42	8.0	8.9
	GMA.3B.090.DG	9.0	42	9.0	10.0

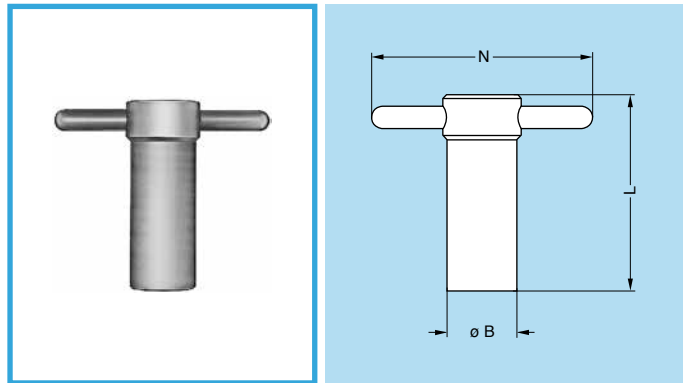
Note: all dimensions are in millimetres.

Ref.	Colour	Ref.	Colour	Ref.	Colour
A	blue	J	yellow	R	red
B	white	M	brown	S	orange
G	grey	N	black	V	green

Note: ¹⁾ Design may differ from other bend relief, model without stripes. The «GMD» are thin bend reliefs (for very flexible cables). 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 above and replace the letter «G» by the letter of the required colour.

Tooling

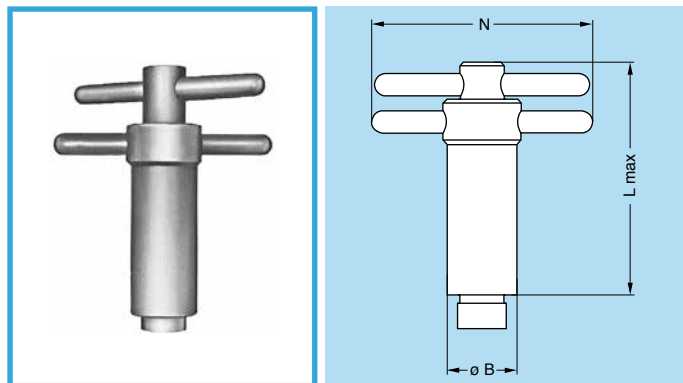
DCG Spanners for hexagonal nuts



Part number	Series	Dimensions (mm)			Part number of the nut
		B	L	N	
DCG.91.149.0TN	TT	14	40	50	GEA.00.240.LN
DCG.91.161.1TN	0T	16	45	52	GEA.0S.240.LN
DCG.91.201.4TN	1T	20	52	65	GEA.1S.240.LN
DCG.91.231.7TN	2T	23	62	68	GEA.2S.240.LN
DCG.91.282.2TN	3T	28	76	73	GEA.3S.240.LN

● Material: blackened steel

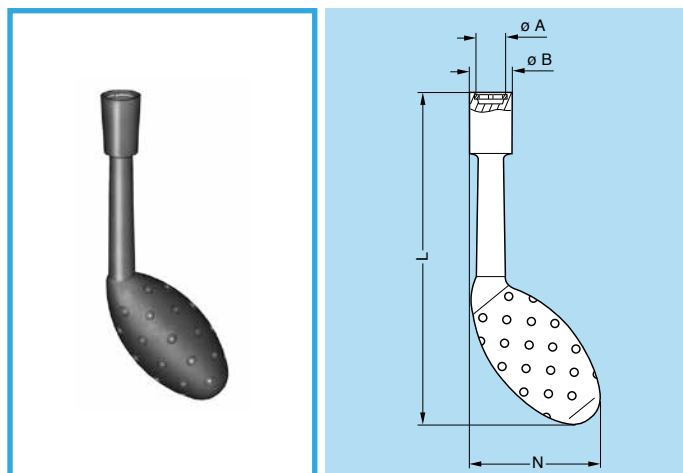
DCA Spanners for hexagonal nuts with locator for flats on socket thread



Part number	Series	Dimensions (mm)			Part number of the nut
		B	L	N	
DCA.91.149.0TN	TT	14	65	50	GEA.00.240.LN
DCA.91.161.1TN	0T	16	73	52	GEA.0S.240.LN
DCA.91.201.4TN	1T	20	85	65	GEA.1S.240.LN
DCA.91.231.7TN	2T	23	100	68	GEA.2S.240.LN
DCA.91.282.2TN	3T	28	120	73	GEA.3S.240.LN

● Material: blackened steel

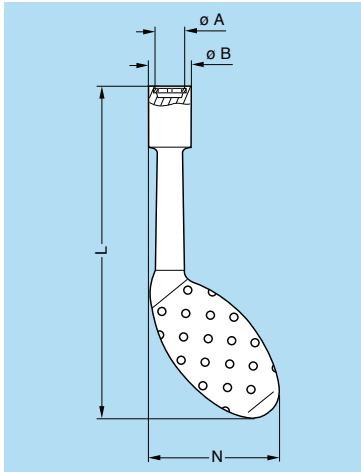
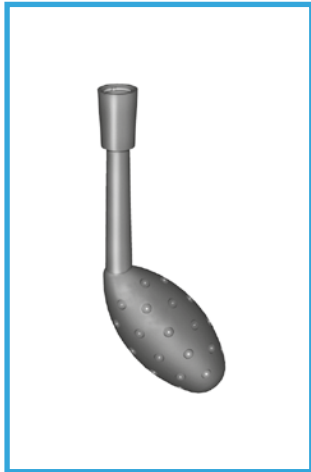
DCH Spanners for conical nuts



Part number	Series	Dimensions (mm)				Part number of the nut
		A	B	L	N	
DCH.91.101.PN	TT	10.1	12.8	124	48.3	GEC.00.240.LC
DCH.91.121.PN	0T	12.1	14.8	124	49.3	GEC.0S.240.LC
DCH.91.161.PN	1T	16.1	21.0	124	51.9	GEC.1S.240.LC
DCH.91.201.PN	2T	20.1	22.8	129	53.5	GEC.2S.240.LC

● Material: dark grey polyurethane

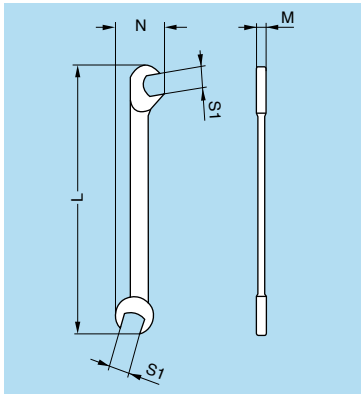
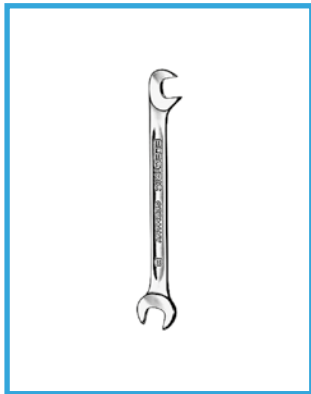
DCH Spanners for notched nuts



Part number	Series	Dimensions (mm)				Part number of the nut
		A	B	L	N	
DCH.91.101.PA	TT	10.1	12.8	124	48.3	GEG.00.240.LC
DCH.91.121.PA	0T	12.1	14.8	124	49.3	GEG.0S.240.LC
DCH.91.161.PA	1T	16.1	21.0	124	51.9	GEG.1S.240.LC
DCH.91.201.PA	2T	20.1	22.8	129	53.5	GEG.2S.240.LC

● Material: blue polyurethane

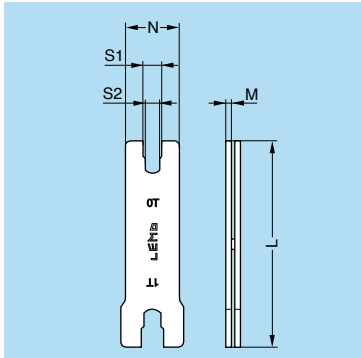
DCP Flat spanners for collet nut



Part number	Series	Dimensions (mm)			
		L	M	N	S1
DCP.99.050.TC	TT	78	2	12.6	5.0
DCP.99.055.TC	TT	78	2	12.6	5.5
DCP.99.060.TC	TT	78	2	12.6	6.0

● Material: chrome-plated steel

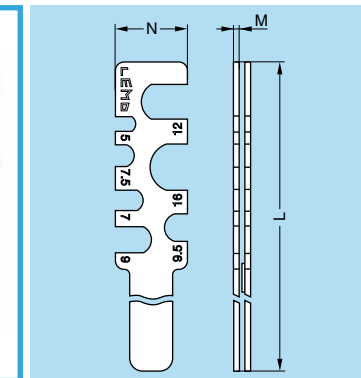
DCP Set of flat spanners for collet nuts



Part number	Series	Dimensions (mm)				
		L	M	N	S1	S2
DCP.0T.110.TN	0T	95	2.5	21	7.55	7.05
DCP.0T.110.TN	1T	95	2.5	25	11.05	9.05
DCP.2T.110.TN	2T	115	3.0	30	14.05	12.05
DCP.2T.110.TN	3T	115	3.0	35	16.05	14.05

● Material: blackened steel

DCP Set of flat spanners for FS● retaining ring & collet nuts



Part number	Series	Dimensions (mm)		
		L	M	N
DCP.TT.FSG.TN	TT-0T-1T-2T	152	2	25

● Material: blackened steel

Crimping tools for electrical contacts

Manual crimping tools

Fig. A



Fig. B



Part number		Supplier
contact ø 0.5-0.7 0.9-1.3 (Fig. A)	contact ø 1.6-2.0 (Fig. B)	
DPC.91.701.V¹⁾	DPC.91.101.A²⁾	LEMO
MH860¹⁾	AF8²⁾	DANIELS
616336¹⁾	615708²⁾	ASTRO

1) According to specification MIL-C-22520/7-01.

2) According to specification MIL-C-22520/1-01.

Pneumatic crimping tools



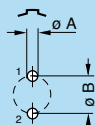
Part number	Supplier
DPC.91.701.C	LEMO
85230	BALMAR
621101	BUCHANAN

According to specification MIL-C-22520/7-01.
For LEMO contacts ø 0.5-0.7-0.9-1.3 mm

PCB drilling pattern

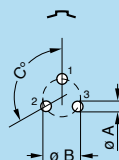
Fixed socket with straight print contact

302



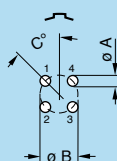
Series	Dimensions	
	A	B
TT	0.6	1.2
0T	0.8	2.2
1T	0.8	2.8
2T	0.8	4.4

303



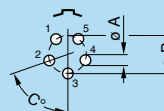
Series	Dimensions		
	A	B	C
TT	0.6	1.35	120°
0T	0.8	2.30	120°
1T	0.8	3.00	120°
2T	0.8	4.60	120°
3T	0.8	5.60	120°

304



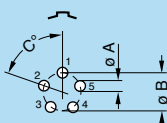
Series	Dimensions		
	A	B	C
TT	0.6	1.6	45°
0T	0.6	2.5	45°
1T	0.8	3.1	45°
2T	0.8	5.0	45°
3T	0.8	6.2	45°

305



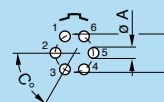
Series	Dimensions		
	A	B	C
TT	0.5	1.7	72°

305



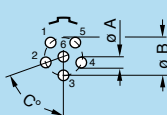
Series	Dimensions		
	A	B	C
0T	0.6	2.8	72°
1T	0.8	3.4	72°
2T	0.8	5.2	72°
3T	0.8	6.7	72°

306



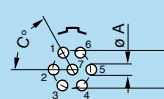
Series	Dimensions		
	A	B	C
0T	0.6	3.0	60°
1T	0.8	3.7	60°

306



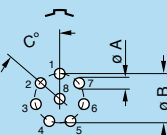
Series	Dimensions		
	A	B	C
2T	0.8	5.6	72°
3T	0.8	7.1	72°

307



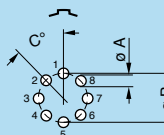
Series	Dimensions		
	A	B	C
0T	0.6	3.00	60°
1T	0.8	3.70	60°
2T	0.8	5.80	60°
3T	0.8	7.08	60°

308



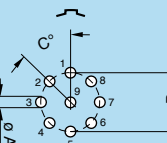
Series	Dimensions		
	A	B	C
1T	0.8	3.8	51°26'

308



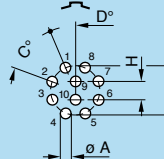
Series	Dimensions		
	A	B	C
2T	0.8	6.4	45°
3T	0.8	7.5	45°

309



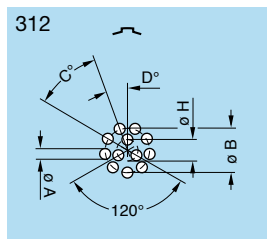
Series	Dimensions		
	A	B	C
0T	0.6	3.2	45°
3T	0.8	7.5	45°

310

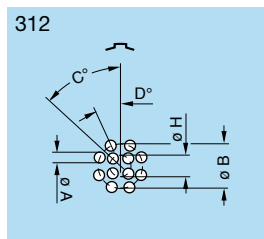


Series	Dimensions				
	A	B	C	D	H
1T	0.6	3.95	45°	22°30'	1.40
2T	0.8	6.30	45°	22°30'	2.15
3T	0.8	7.90	45°	22°30'	2.80

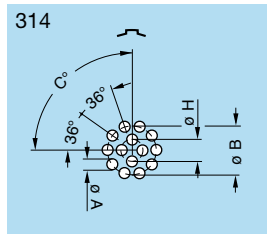
Note: all views are from the side of the socket.



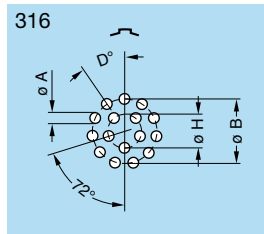
Series	Dimensions				
	A	B	C	D	H
0T	0.5	3.3	40°	20°	1.25



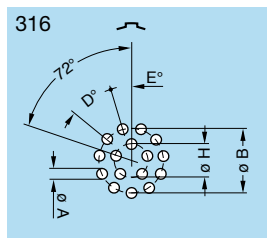
Series	Dimensions				
	A	B	C	D	H
2T	0.8	6.50	45°	22°30'	2.80
3T	0.8	8.20	45°	22°30'	3.40



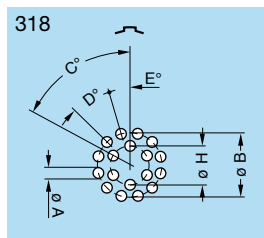
Series	Dimensions			
	A	B	C	H
1T	0.6	4.4	90°	1.90
2T	0.8	6.5	90°	2.65
3T	0.8	8.2	90°	3.40



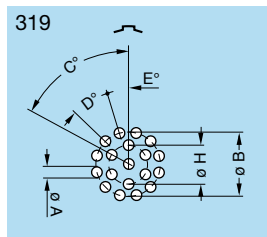
Series	Dimensions			
	A	B	D	H
1T	0.6	4.4	32°44'	2.0



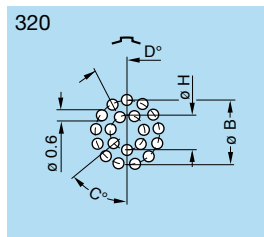
Series	Dimensions				
	A	B	D	E	H
2T	0.8	6.6	32°44'	16°22'	3.10
3T	0.8	8.4	32°44'	16°22'	3.86



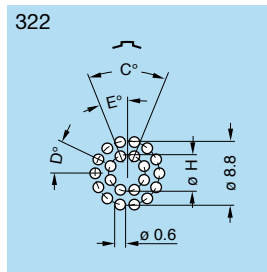
Series	Dimensions					
	A	B	C	D	E	H
2T	0.8	6.7	60°	30°	15°	3.50
3T	0.8	8.4	60°	30°	15°	4.34



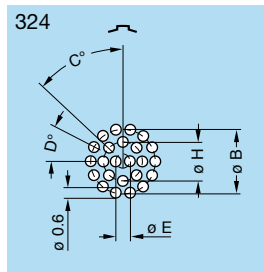
Series	Dimensions					
	A	B	C	D	E	H
2T	0.8	6.7	60°	30°	15°	3.5



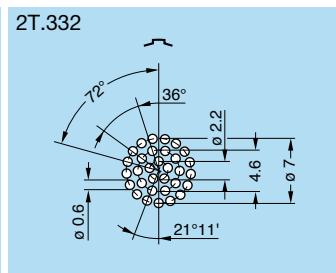
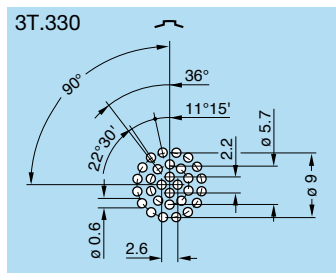
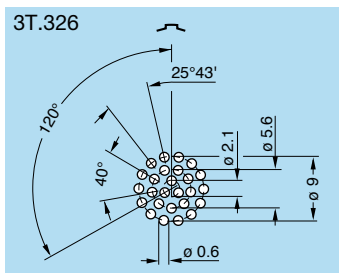
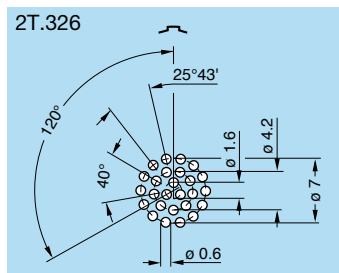
Series	Dimensions			
	B	C	D	H
3T	8.62	51°26'	27°42'	4.78



Series	Dimensions			
	C	D	E	H
3T	45°	25°43'	22°30'	5



Series	Dimensions				
	B	C	D	E	H
3T	8.8	45°	25°43'	1.8	5.30



Note: all views are from the side of the socket.

Metal collet nut tightening torque

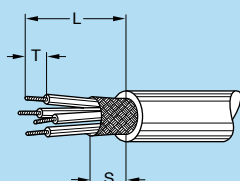
Series	Maximum metal collet nut tightening torque (Nm)
TT	0.25
0T	0.70

Series	Maximum metal collet nut tightening torque (Nm)
1T	0.80
2T	2.00

Series	Maximum metal collet nut tightening torque (Nm)
3T	3.00

Cable assembly

Straight plugs and sockets with cable collet

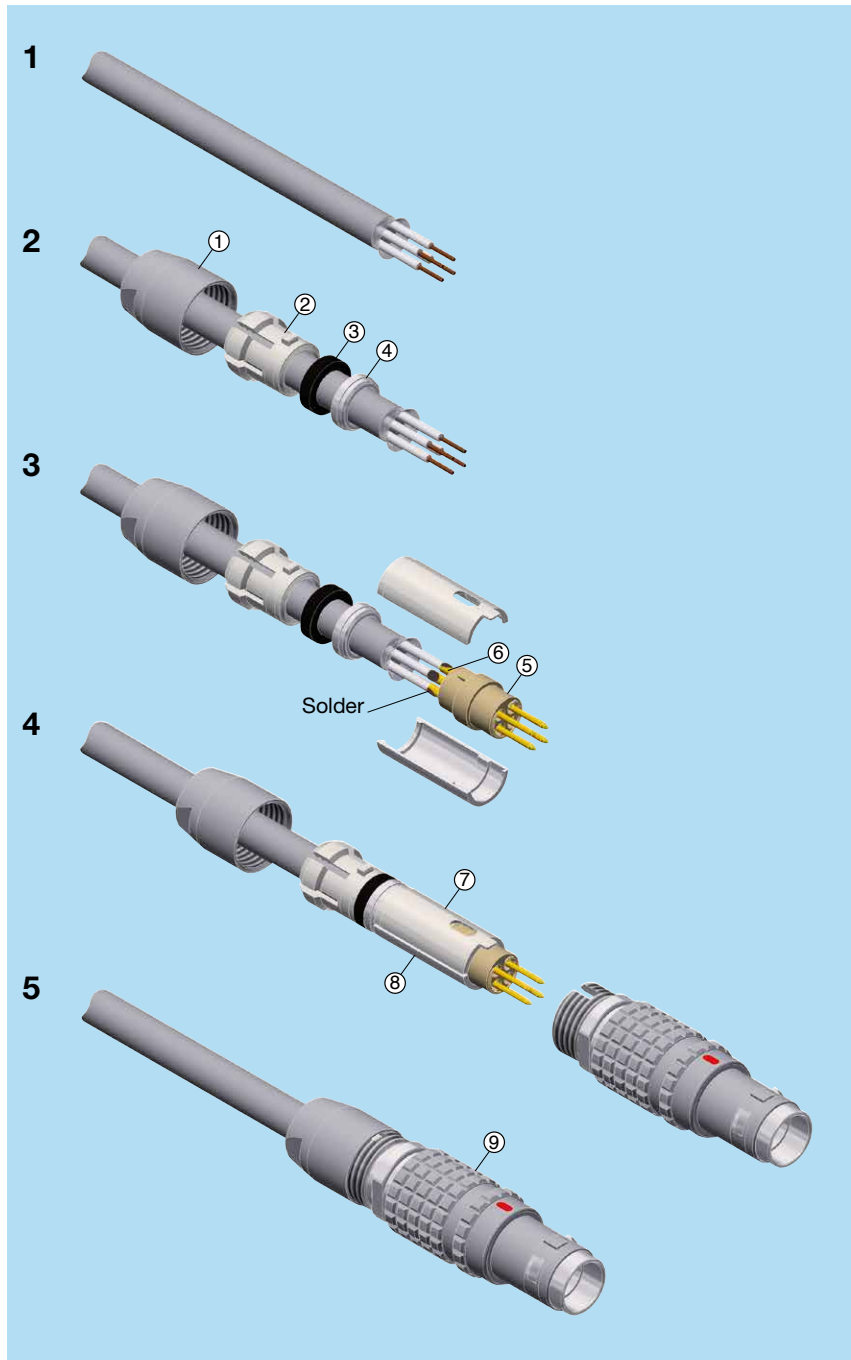


	Type	ø contact A (mm)	Cable stripping lengths (mm)					
			Solder			Crimp		
			L	S	T	L	S	T
TT	302/303/304	0.5	7.0	4	2.5	10.0	4	3.0
	305/306	0.35	7.0	4	2.5	–	–	–
OT	302/303	0.9	9.5	6	3.5	12.0	6	4.0
	304/305	0.7	9.5	6	3.5	12.0	6	4.0
	306/307/309¹⁾	0.5	9.0	6	2.5	13.0	6	3.0
	312	0.35	9.0	6	2.5	–	–	–
1T	302/303	1.3	11.0	7	3.5	14.5	7	4.0
	304/305	0.9	11.0	7	3.0	14.5	7	4.0
	306/307/308	0.7	11.0	7	3.0	14.5	7	4.0
	310/314/316	0.5	13.0	7	2.5	14.0	7	3.0
2T	302	2.0	16.5	8	4.0	19.5	8	5.5
	303	1.6	16.5	8	3.5	19.5	8	5.5
	304/305/306/307	1.3	15.5	8	3.5	17.5	8	4.0
	308/310	0.9	14.5	8	3.0	17.5	8	4.0
	312/314/316/318/319	0.7	14.5	8	3.0	17.5	8	4.0
	326/332	0.5	14.5	8	2.5	–	–	–
3T	302	3.0	19.0	10	4.5	23.0	10	5.5
	303/304	2.0	18.0	10	4.0	22.0	10	5.5
	305/306/307	1.6	18.0	10	3.5	22.0	10	5.5
	308/310	1.3	17.0	10	3.5	20.0	10	4.0
	309	1.3 2.0	17.0	10	3.5 4.0	20.0	10	4.0 5.5
	312/314/316/318	0.9	16.0	10	3.0	20.0	10	4.0
	320/322/324/326/330	0.7	16.0	10	3.0	20.0	10	4.0

Note:

¹⁾ crimp contacts are available only for connectors fitted with male contacts. The tolerances on these dim. are: L: ± 0.5 mm; S: ± 0.5 mm; T: ± 0.2 mm.

Terminating of plugs with solder contacts and cable collet



Cable preparation

1. Strip the cable according to the given dimensions.
(The end of the cable jacket must be cut properly).

Cable termination

2. Slide it into the collet nut ①, the collet ②, the gland ③ and the earthing cone ④.
3. In case of a screened cable, fold screen back over the extremity of the earthing cone.
Arrange the conductors according to the insulator ⑤ marking by avoiding to twist them.
Fit conductor into the contacts ⑥ and solder. Verify that insulator and insulation remain clean.
4. Locate the slotted upper half ⑦ of the split insert carrier over the shoulder and key on the insulator then align and press together the other half ⑧ to form a complete cylinder.
Push the earthing cone against the insert carriers whilst checking that the screen is being clamped around the whole circumference and cut, if necessary, the excess screen.
Push the gland, and collet against the earthing cone. Push the cable forward and verify that cable jacket is located under the gland.
5. Next slide the plug shell ⑨ over the insulator assembly making sure that the key on the insert carrier goes into the keyway (under the color point) inside the shell.
Locate the key of the collet into the slot of the shell.
Finally screw the collet nut with the appropriate tool and tighten to the maximum torque value (see page 22).

Product safety notice

**PLEASE READ AND FOLLOW ALL INSTRUCTIONS CAREFULLY AND CONSULT ALL RELEVANT NATIONAL AND INTERNATIONAL SAFETY REGULATIONS FOR YOUR APPLICATION.
IMPROPER HANDLING, CABLE ASSEMBLY, OR WRONG USE OF CONNECTORS CAN RESULT IN HAZARDOUS SITUATIONS.**

1. SHOCK AND FIRE HAZARD

Incorrect wiring, the use of damaged components, presence of foreign objects (such as metal debris), and / or residue (such as cleaning fluids), can result in short circuits, overheating, and / or risk of electric shock. Mated components should never be disconnected while live as this may result in an exposed electric arc and local overheating, resulting in possible damage to components.

2. HANDLING

Connectors and their components should be visually inspected for damage prior to installation and assembly. Suspect components should be rejected or returned to the factory for verification. Connector assembly and installation should only be carried out by properly trained personnel. Proper tools must be used during installation and / or assembly in order to obtain safe and reliable performance.

3. USE

Connectors with exposed contacts should never be live (or on the current supply side of a circuit). Under general conditions voltages above 30 VAC and 42 VDC are considered hazardous and proper measures should be taken to eliminate all risk of transmission of such voltages to any exposed metal part of the connector.

4. TEST AND OPERATING VOLTAGES

The maximum admissible operating voltage depends upon the national or international standards in force for the application in question. Air and creepage distances impact the operating voltage; reference values are indicated in the catalog however these may be influenced by PC board design and / or wiring harnesses. The test voltage indicated in the catalog is 75% of the mean breakdown voltage; the test is applied at 500 V/s and the test duration is 1 minute.

5. CE MARKING

CE marking  means that the appliance or equipment bearing it complies with the protection requirements of one or several European safety directives.

CE marking  applies to complete products or equipment, **but not to electromechanical components, such as connectors.**

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