

T SERIES
IP 68 PUSH-PULL CONNECTORS



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

Technical Characteristics

Mechanical and Climatical	Value	Standard
Endurance	> 1000 cycles ¹⁾	IEC 60512-5 test 9a
Humidity	up to 95% at 60°C	–
Temperature range	-55°C, +200°C / (-20°C, +80°C) ²⁾	–
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	> 1000 h	IEC 60512-6 test 11f
Protection index (mated) ³⁾	IP68/IP66	IEC 60529
Latching retention force (average value)	From 85 N up to 300 N (depending of the size)	–
Climatical category	50/175/21	IEC 60068-1

Note: ¹⁾ Up to 5000 cycles for size 3T. ²⁾ operating temperature is -20°C, +80°C for watertight or vacuumtight models fitted with an FPM (Viton®) o-ring and Epoxy. ³⁾ IP68 achieved providing that the cable is perfectly circular and that assembly process ensures a high integrity seal.

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

Material and Treatments

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

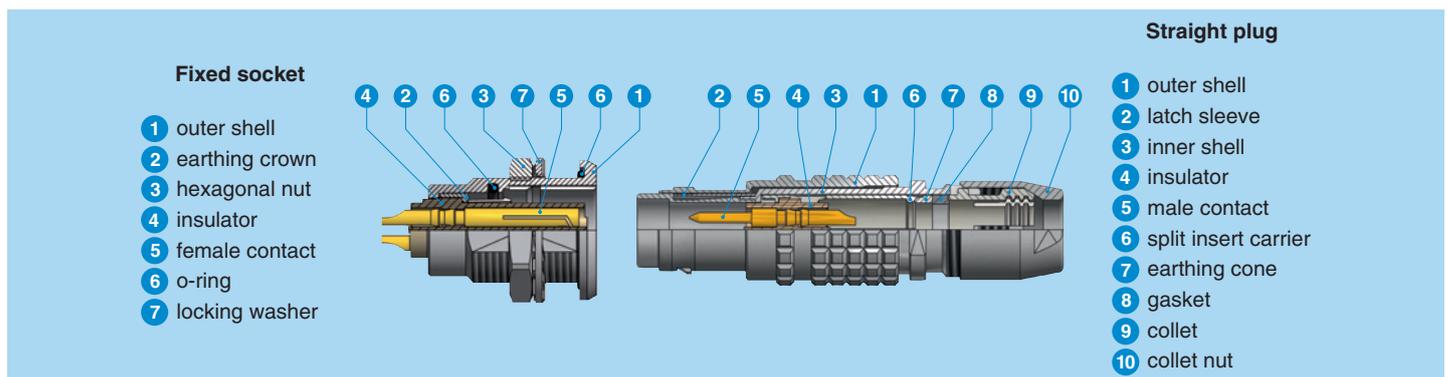
Contacts

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

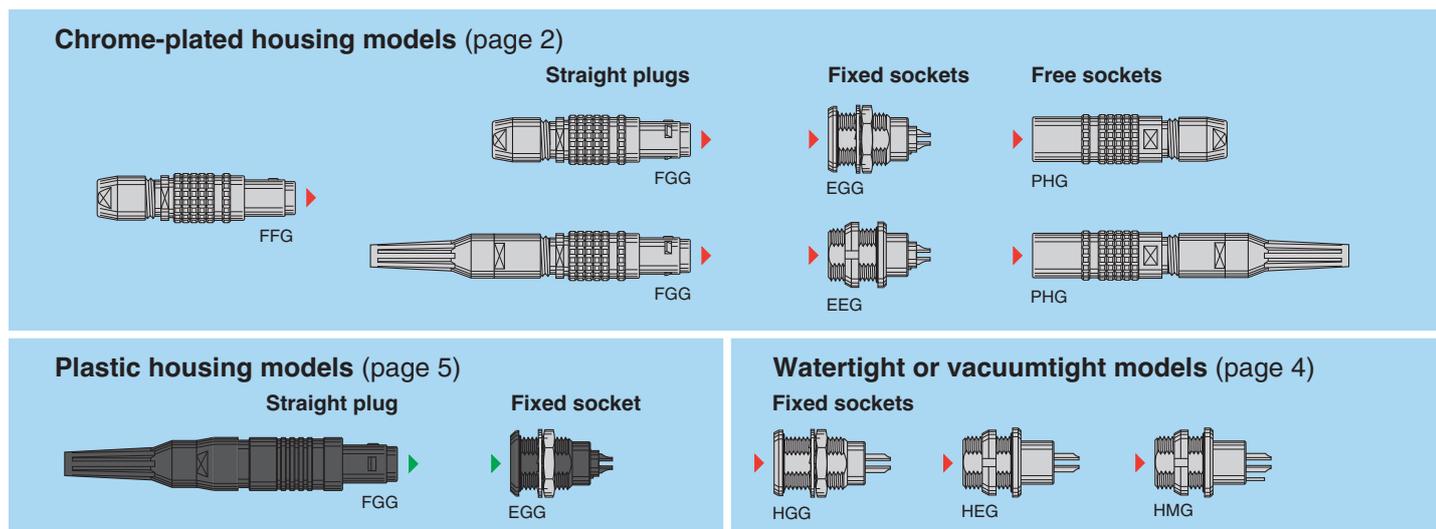
Insulators

Material	Contact type
PEEK	Crimp, solder or print

Part Section Showing Internal Components

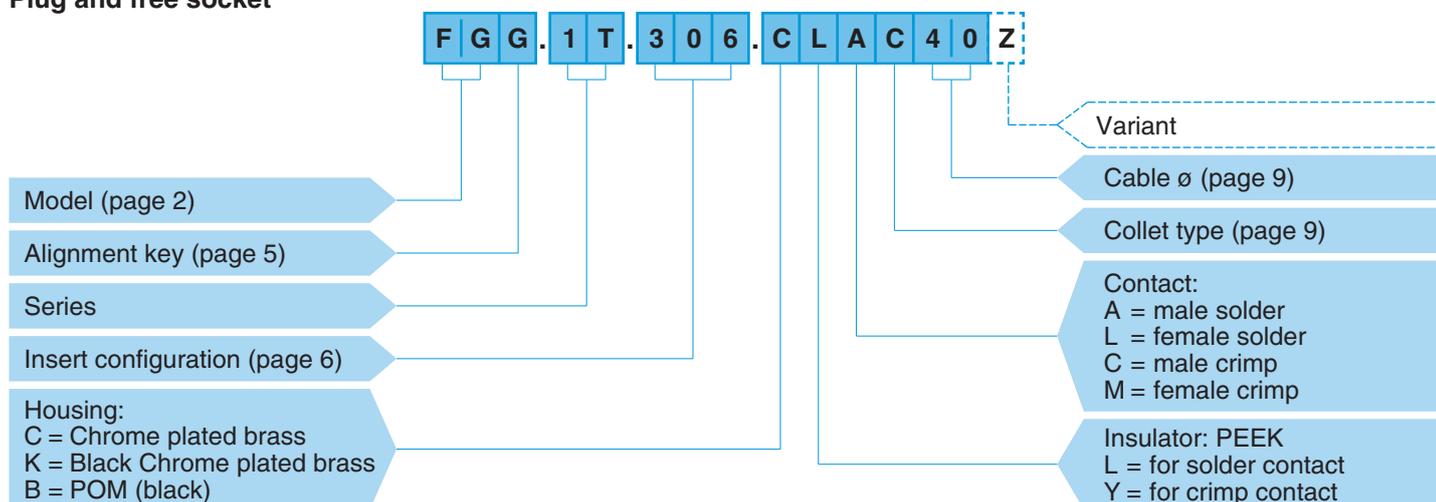


Interconnections



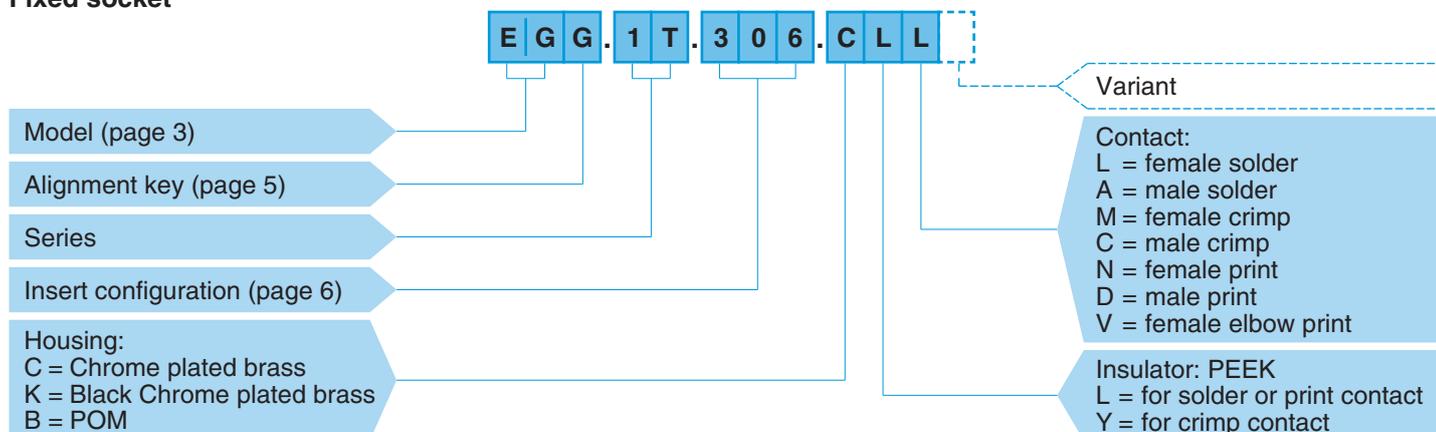
Part Numbering System

Plug and free socket



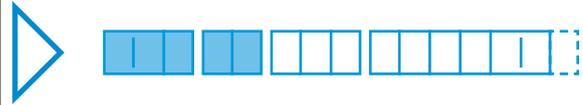
FGG.1T.306.CLAC40Z = Straight plug with key (G) and cable collet for bend relief, 1T series, multipole type with 6 contacts, outer shell in chrome-plated brass, PEEK insulator, male solder contacts, C type collet for 4.0 mm diameter cable and nut for fitting a bend relief.

Fixed socket



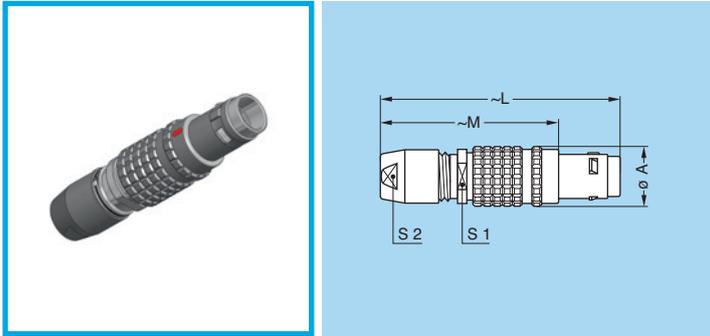
EGG.1T.306.CLL = fixed socket, nut fixing, with key (G), 1T series, multipole type with 6 contacts, outer shell in chrome-plated brass, PEEK insulator, female solder contacts.

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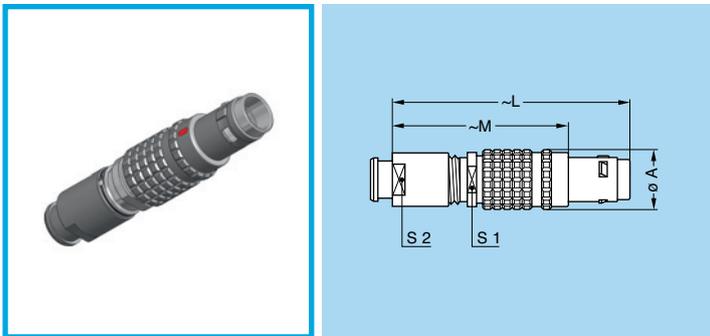
Chrome-plated housing models

FGG Straight plug, cable collet



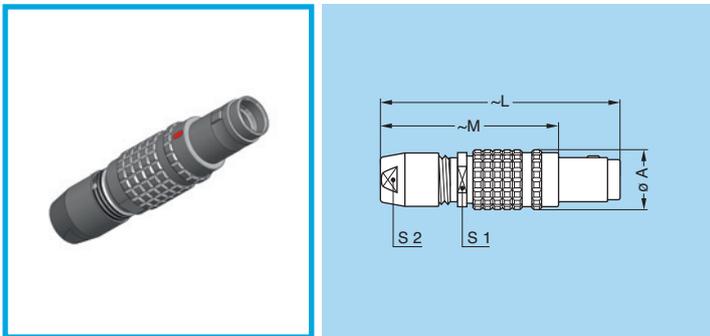
Reference		Dimensions (mm)					Cable ϕ	
Model	Series	A	L	M	S1	S2	min.	max.
FGG	TT	7.0	33.2	25.2	5.5	5	2.4	3.0
FGG	0T	9.5	39.0	29.0	7.5	7	1.0	5.0
FGG	1T	12.0	46.0	35.0	11.0	9	1.3	6.5
FGG	2T	15.0	55.0	43.0	14.0	12	1.3	8.5
FGG	3T	18.8	64.0	49.0	16.0	14	2.6	10.5

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



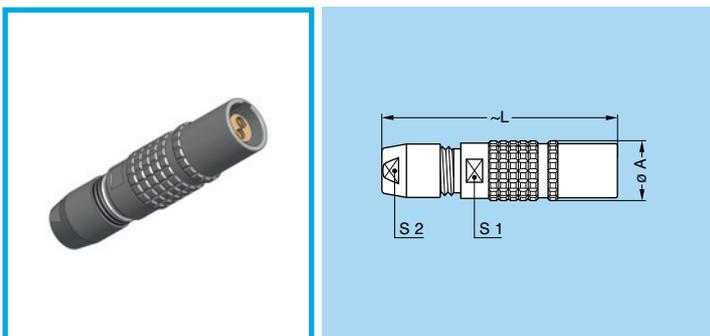
Reference		Dimensions (mm)					Cable ϕ	
Model	Series	A	L	M	S1	S2	min.	max.
FGG	TT	7.0	32.7	24.7	5.5	6	2.4	3.0
FGG	0T	9.5	38.0	28.0	7.5	7	1.0	5.0
FGG	1T	12.0	45.0	34.0	11.0	9	1.3	6.5
FGG	2T	15.0	54.0	42.0	14.0	12	1.3	8.5
FGG	3T	18.8	62.0	47.0	16.0	15	2.6	10.5

FFG Straight plug, non latching, cable collet



Reference		Dimensions (mm)					Cable ϕ	
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	7.5	7	1.0	5.0
FFG	1T	12.0	46.0	35.0	11.0	9	1.3	6.5
FFG	2T	15.0	55.0	43.0	14.0	12	1.3	8.5
FFG	3T	18.8	64.0	49.0	16.0	14	2.6	10.5

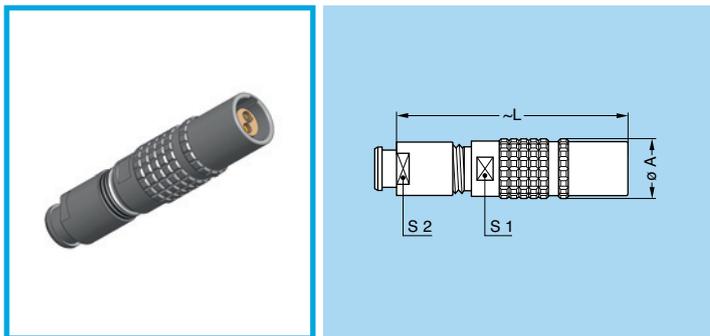
PHG Free socket, cable collet



Reference		Dimensions (mm)				Cable ϕ	
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	7.5	7	1.0	5.0
PHG	1T	12.0	43.5	11.0	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

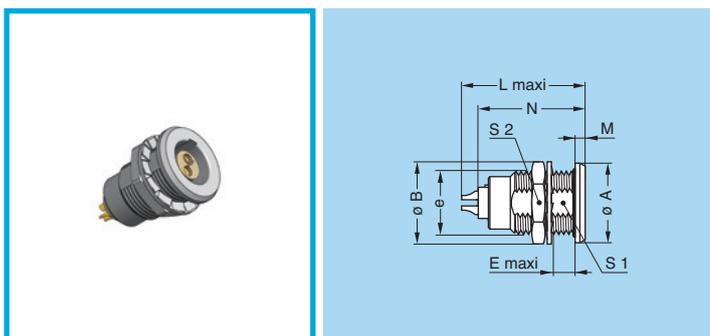


PHG Free socket, cable collet and nut for fitting a bend relief



Reference		Dimensions (mm)				Cable ϕ	
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	7.5	7	1.0	5.0
PHG	1T	12.0	42.5	11.0	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

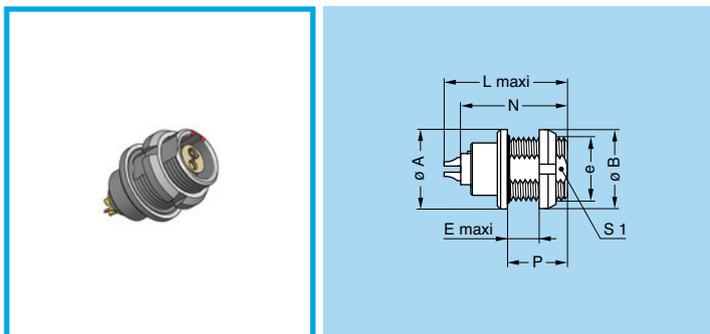
EGG Fixed socket, nut fixing



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

Note: ¹⁾ maximum length with crimp contacts.

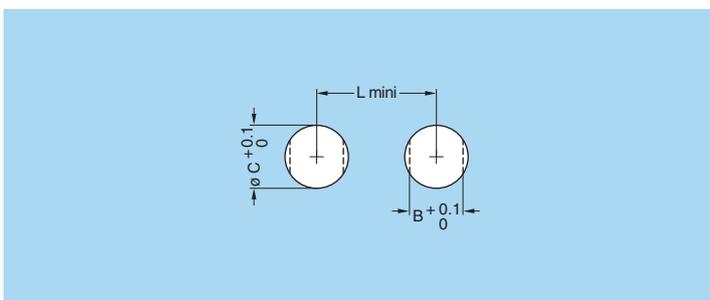
EEG Fixed socket, nut fixing, back panel mounting



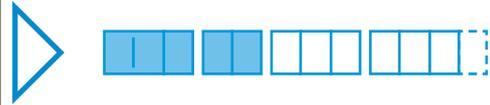
Reference		Dimensions (mm)								
Model	Series	A	B	e	E	L	N ¹⁾	P	S1	
EEG	TT	10.0	10.0	M7x0.5	4.5	16.0	13.5	7	6.3	
EEG	0T	12.0	12.0	M9x0.6	6.5	21.0	19.1	9	8.2	
EEG	1T	15.5	16.0	M12x1.0	6.5	23.0	21.5	10	10.5	
EEG	2T	18.5	20.0	M15x1.0	7.5	26.5	24.6	11	13.5	
EEG	3T	23.5	24.0	M18x1.0	7.5	30.1	25.0	12	16.5	

Note: ¹⁾ maximum length with crimp contacts.

Panel cut-out



Reference		Panel cut-out			Mounting nut torque	
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



Watertight or vacuumtight models

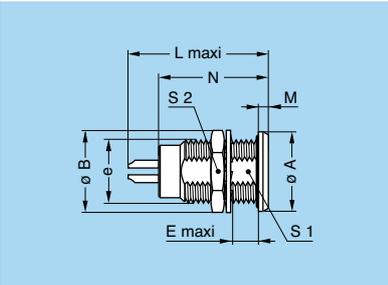
These models are identified by a letter «P» at the end of the reference. Most of these models are also available in a vacuumtight version. Such models are identified by an additional letter «V» at the end of the part number (certificate on request). Epoxy resin is used to seal these models. The temperature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

Part Number Example

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

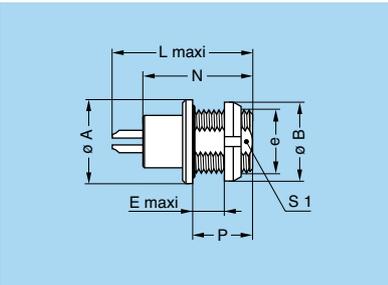
HGG.0T.305.CLLPV (5 contacts, resin potted and vacuumtight tested)

HGG Fixed socket, nut fixing, watertight or vacuumtight



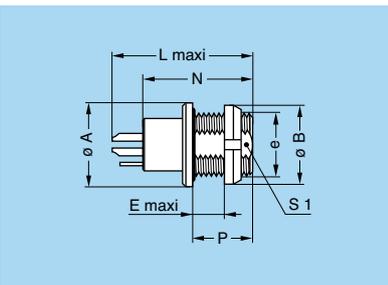
Reference		Dimensions (mm)								
Model	Series	A	B	e	E	L	M	N ¹⁾	S1	S2
HGG	TT	10.0	10.2	M7x0.5	5.5	18.0	1.2	15.0	6.3	9
HGG	0T	12.0	12.5	M9x0.6	6.5	22.0	1.5	18.5	8.2	11
HGG	1T	15.5	16.0	M12x1.0	6.0	26.0	1.8	21.5	10.5	14
HGG	2T	18.5	19.6	M15x1.0	8.0	30.5	1.8	25.0	13.5	17

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



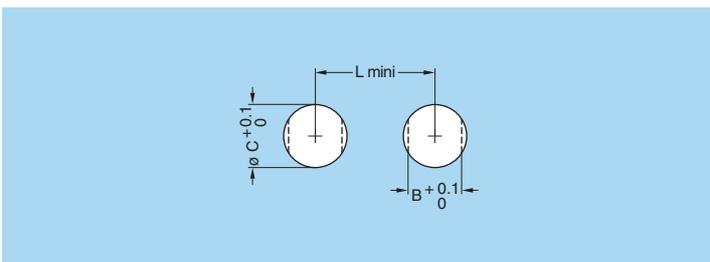
Reference		Dimensions (mm)							
Model	Series	A	B	e	E	L	N	P	S1
HEG	TT	10.0	10.0	M7x0.5	4.5	18.0	15.0	7	6.3
HEG	0T	12.0	12.0	M9x0.6	6.5	22.0	18.5	9	8.2
HEG	1T	15.5	16.0	M12x1.0	6.5	26.0	21.5	10	10.5
HEG	2T	18.5	20.0	M15x1.0	7.5	30.5	25.0	11	13.5

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



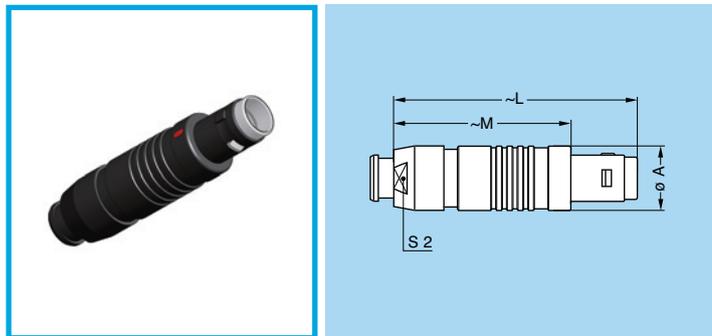
Reference		Panel cut-out			Mounting nut torque	
Model	Series	B	C	L	Metal shell	Plastic shell
H●●	TT	6.4	7.1	12.5	1.0	0.4
H●●	0T	8.3	9.1	14.5	2.5	0.4
H●●	1T	10.6	12.1	18.5	4.5	0.7
H●●	2T	13.6	15.1	22.5	6.0	0.8

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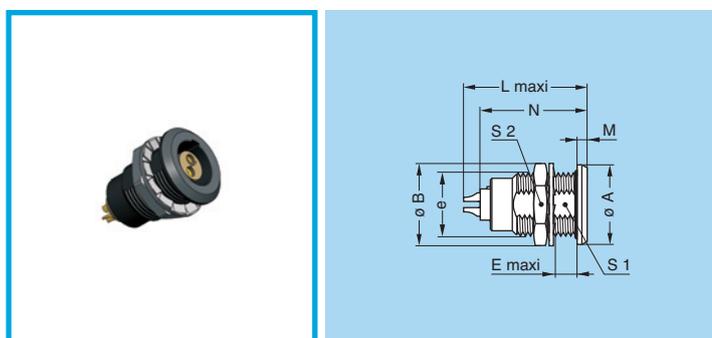
Plastic housing models

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



Reference		Dimensions (mm)				Cable ϕ	
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

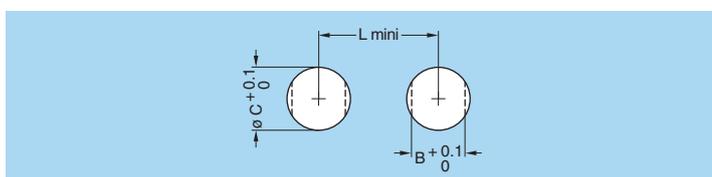
EGG Fixed socket, nut fixing, POM outer shell



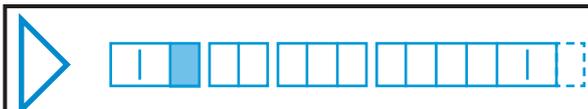
Reference		Dimensions (mm)								
Model	Series	A	B	e	E	L	M	N ¹⁾	S1	S2
EGG	0T	12.0	12.5	M9x0.6	6.0	21.0	1.5	19.1	8.2	11
EGG	1T	15.5	16.0	M12x1.0	6.0	23.0	1.8	21.5	10.5	14

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

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Insert configurations

Multipole

	Solder contacts		Reference	Series	Contact ø (mm)	Contact type				AWG			Solder contact		Rated current (A)
	Crimp contacts					Solder	Crimp	Print (straight)	Print (elbow)	Solder (max.)	Crimp		Test voltage (kV rms)	Test voltage (kV dc)	
											min.	max.			
2			302	TT	0.5	●	●	●		30	32	28	1.00	0.95	5.0
				0T	0.9	●	●	●	●	22	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	●	●	●	●	22	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			0.75	1.00	1.7
				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	TT	0.35	●				30			0.60	0.75	1.5
				0T	0.5	●	○ ¹⁾	●	●	28			0.85	0.65	2.5
				1T	0.7	●	●	●	●	22	32	22	1.05	1.20	7.0
6			306	2T	1.3	●	●	●	●	20	26	18	1.35	1.45	12.0
				3T	1.6	●	●	●	●	18	22	14	1.60	1.15	17.0

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

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Multipole

	Solder 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)		Test voltage (kV dc)
											min.	max.			
7			307	0T	0.5	●	○ ¹⁾	●	●	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			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			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

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

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Multipole

	Solder contacts		Reference	Series	Contact ø (mm)	Contact type				AWG			Solder contact		Rated current (A)
	Crimp contacts					Solder	Crimp	Print (straight)	Print (elbow)	Solder (max.)	Crimp		Test voltage (kV rms)	Test voltage (kV dc)	
											min.	max.			
14			314	1T	0.5	●		●	●	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
16			316	1T	0.5	●		●		28			0.80	1.25	1.5
				2T	0.7	●	●	●	●	22	32	22	0.95	1.25	6.0
16			316	3T	0.9	●	●	●	●	22	32	20	1.20	0.85	8.0
				2T	0.7	●	●	●	●	22	32	22	0.95	1.25	6.0
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
				3T	0.9	●	●	●	●	22	32	20	1.20	1.05	7.0
20			320	2T	0.7	●	●	●	●	22	32	22	0.95	1.25	5.0
				3T	0.9	●	●	●	●	22	32	20	1.20	1.05	7.0
22			322	2T	0.7	●	●	●	●	22	32	22	0.95	1.25	5.0
				3T	0.9	●	●	●	●	22	32	20	1.20	1.05	7.0
24			324	2T	0.7	●	●	●	●	22	32	22	0.95	1.25	5.0
				3T	0.9	●	●	●	●	22	32	20	1.20	1.05	7.0
26			326	2T	0.5	●		●		28			0.95	1.30	2.0
				3T	0.7	●	●	●	●	22	32	22	0.95	0.70	4.0

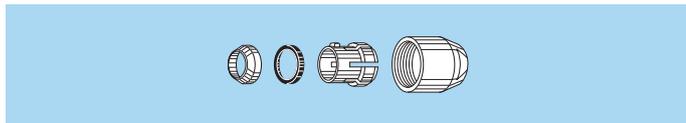
DISCLAIMER The information contained within this catalog and the functions offered are intended to provide information about products. All reasonable efforts have been made to ensure the accuracy of the information. However, LEMO cannot be held responsible for any errors. LEMO does not warrant the accuracy and reserves the right to make changes to the catalog and its functions at any time without notice.



Multipole

	Solder contacts		Reference	Series	Contact ϕ (mm)	Contact type				AWG		Solder contact		Rated current (A)	
						Solder	Crimp	Print (straight)	Print (elbow)	Solder (max.)	Crimp		Test voltage (kV rms)		Test voltage (kV dc)
											min.	max.			
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

Collets



	Type	Cable ϕ (mm)	
		min.	max.
TT	C27	2.4	2.6
	C31	2.7	3.0
OT	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
	C35	3.1	3.5
	C40	3.6	4.0
	C50	4.6	5.0

	Type	Cable ϕ (mm)	
		min.	max.
1T	C15	1.3	1.5
	C20	1.6	2.0
2T	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

	Type	Cable ϕ (mm)	
		min.	max.
3T	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

	Type	Cable ϕ (mm)	
		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
3T	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

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Spare parts for crimp contacts

	Types	Insulator part number		ø (mm)		F.Ø.	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
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	18	20	FGG.3B.565.ZZC	EGG.3B.665.ZZM
						1.10	2	24	20	FGG.3B.566.ZZC	EGG.3B.666.ZZM
	312/314 316/318	FGG.3B.3●●.YL	EGG.3B.4●●.YL	0.9		1.10	1	24	20	FGG.3B.560.ZZC	EGG.3B.660.ZZM
						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
	320/322/324 326/330	FGG.3B.3●●.YL	EGG.3B.4●●.YL	0.7		0.80	1	26	22	FGG.3B.555.ZZC	EGG.3B.655.ZZM
0.45						2	32	28	FGG.3B.556.ZZC	EGG.3B.656.ZZM	

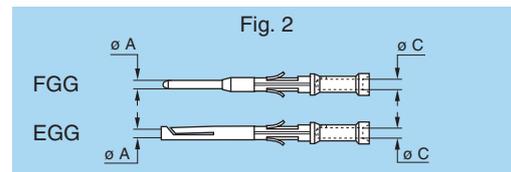
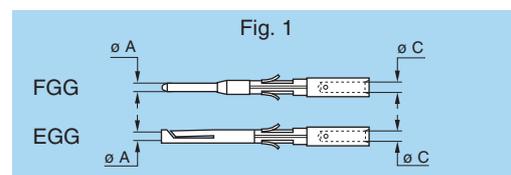
Note: ¹⁾ for 309 type the insulator part number is FGG.3B.309.ML (male contact) and EGG.3B.409.ML (female contact).

Spare parts 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.91.073.5LT	

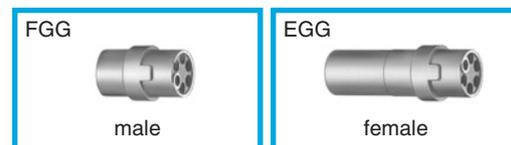
Note: ²⁾ this model is thumb-operated.

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 \varnothing 0.5, 0.7, 0.9, 1.3 mm



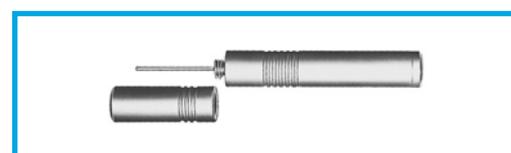
These positioners are suitable for use with both manual and pneumatic crimping tools according to the MIL-C-22520/7-01 standard.

DCE Turret for \varnothing 1.6, 2.0, 3.0, 4.0 mm



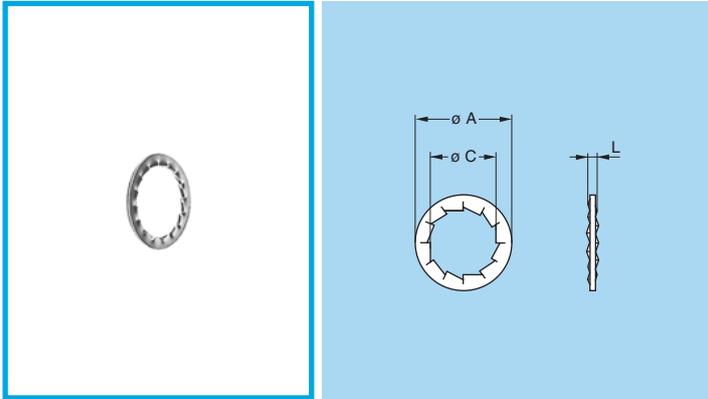
Note: these turrets can be used with manual crimping tool according to MIL-C-22520/1-01 standard.

DCF Automatic extraction tools



Spare parts

GBA Locking washers

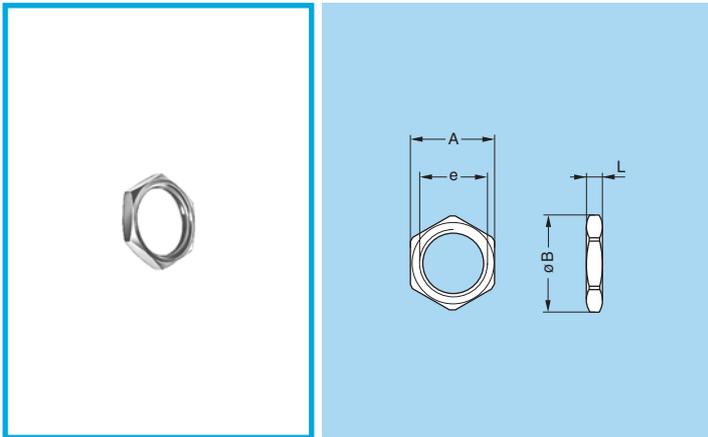


Part number	Series	Dimensions (mm)		
		A	C	L
GBA.00.250.FN	TT	9.5	7.1	1.0
GBA.0S.250.FN	0T	12.5	9.1	1.0
GBA.1S.250.FN	1T	16.0	12.1	1.0
GBA.2S.250.FN	2T	19.5	15.1	1.2
GBA.3S.250.FN	3T	25.0	18.1	1.4

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

- Material: Nickel-plated bronze (3 μm)

GEA Hexagonal nuts

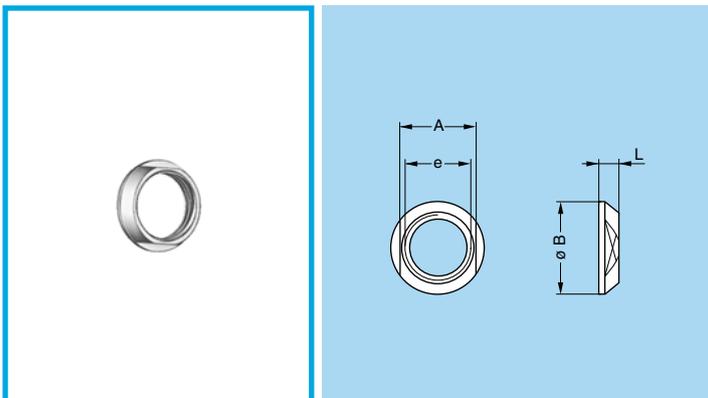


Part number	Series	Dimensions (mm)			
		A	B	e	L
GEA.00.240.LN	TT	9	10.2	M7 x 0.5	2.0
GEA.0S.240.LN	0T	11	12.4	M9 x 0.6	2.0
GEA.1S.240.LN	1T	14	15.8	M12 x 1.0	2.5
GEA.2S.240.LN	2T	17	19.2	M15 x 1.0	2.7
GEA.3S.240.LN	3T	22	25.0	M18 x 1.0	3.0

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 17 for the tooling.

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

GEC Conical nuts

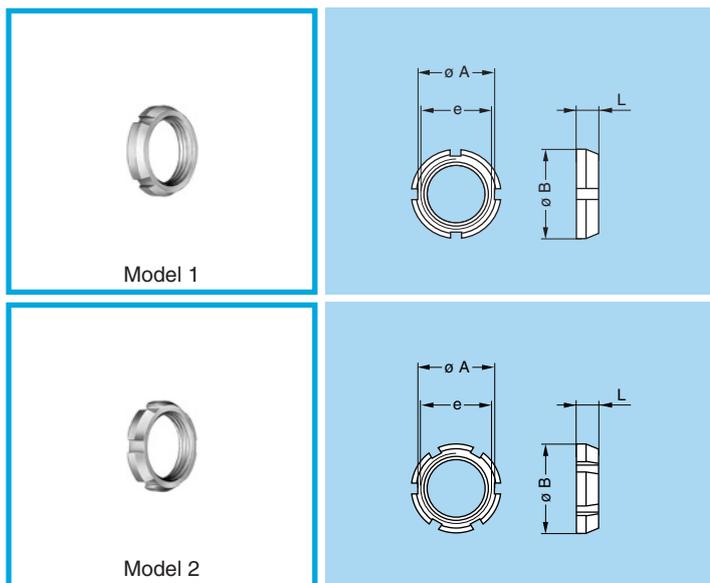


Part number	Series	Dimensions (mm)			
		A	B	e	L
GEC.00.240.LC	TT	8	10	M7 x 0.5	2.5
GEC.0S.240.LC	0T	10	12	M9 x 0.6	2.5
GEC.1S.240.LC	1T	13	16	M12 x 1.0	3.2
GEC.2S.240.LC	2T	17	20	M15 x 1.0	3.8
GEC.3S.240.LC	3T	20	24	M18 x 1.0	4.5

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 17 for the tooling.

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

GEG Notched nuts



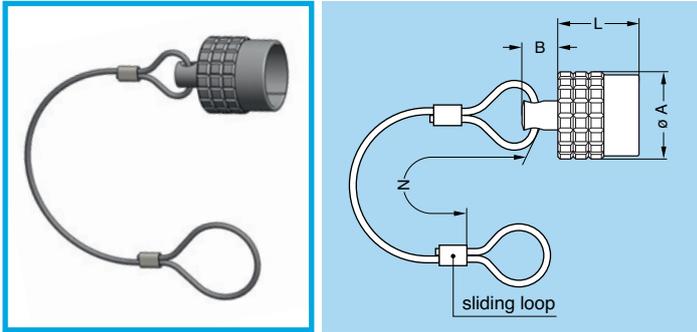
Part number	Series	Dimensions (mm)				Model
		A	B	e	L	
GEG.00.240.LC	TT	8.6	10	M7 x 0.5	2.5	1
GEG.0S.240.LC	0T	10.5	12	M9 x 0.6	2.5	1
GEG.1S.240.LC	1T	14.0	16	M12 x 1.0	3.5	1
GEG.2S.240.LC	2T	17.5	20	M15 x 1.0	3.5	2

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 18 for the tooling.

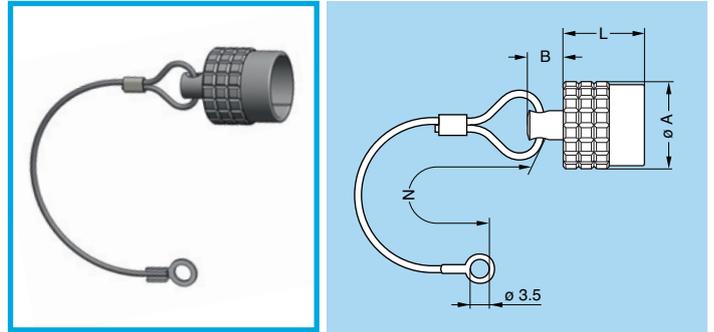
- Material: Chrome-plated brass (Ni 3 μm + Cr 0.3 μm)

Accessories

BFG Blanking caps for plugs



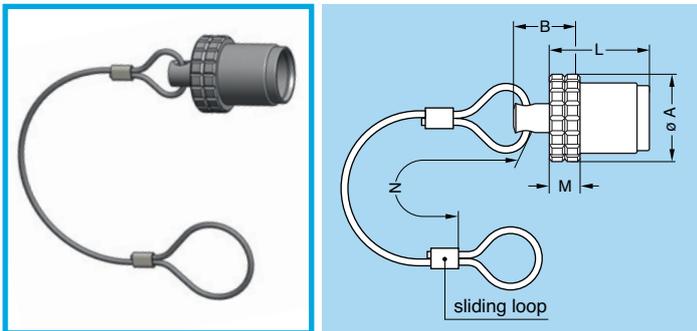
BHG Blanking caps for fixed plugs



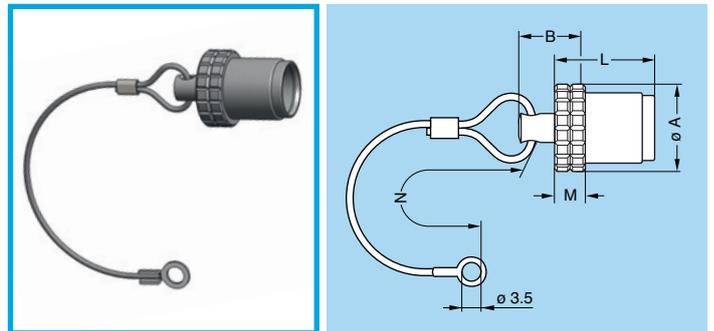
Part number	Dimensions (mm)				Part number
	A	B	L	N	
BFG.TT.100.CAS	7.0	4.0	9.0	60	BHG.TT.100.CAS
BFG.0T.100.CAS	9.5	5.0	11.0	85	BHG.0T.100.CAS
BFG.1T.100.CAS	12.0	6.0	12.4	85	BHG.1T.100.CAS
BFG.2T.100.CAS	15.0	6.0	13.8	85	BHG.2T.100.CAS
BFG.3T.100.CAS	18.8	6.0	17.6	120	BHG.3T.100.CAS

- Body material: Chrome-plated brass (Ni 3 μ m)
- Lanyard material: Stainless steel
- Crimp ferrule material: Nickel-plated brass + polyolefin
- O-ring material: Silicone
- Maximum operating temperature: 135°C
- Watertightness: IP68 according to IEC 60529

BRF Blanking caps for free sockets



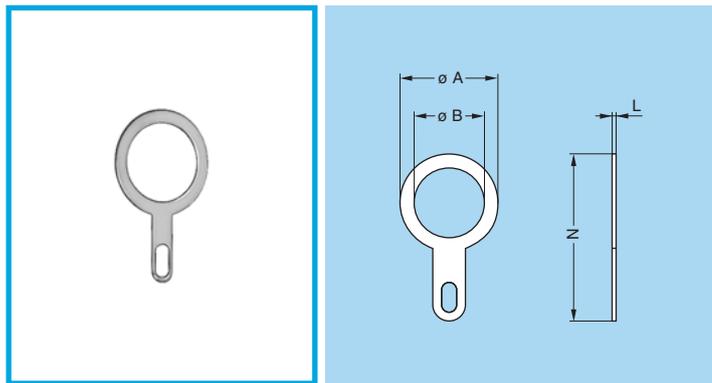
BRE Blanking caps for sockets



Part number	Dimensions (mm)					Part number
	A	B	L	M	N	
BRF.TT.200.CAZ	7.0	6.5	10.5	2.5	60	BRE.TT.200.CAZ
BRF.0T.200.CAZ	9.5	7.7	12.7	2.7	85	BRE.0T.200.CAZ
BRF.1T.200.CAZ	12.0	9.5	14.4	3.5	85	BRE.1T.200.CAZ
BRF.2T.200.CAZ	15.0	10.4	16.3	4.4	85	BRE.2T.200.CAZ
BRF.3T.200.CAZ	18.8	11.4	20.2	5.4	120	BRE.3T.200.CAZ

- Body material: Chrome-plated brass (Ni 3 μ m)
- Lanyard material: Stainless steel
- Crimp ferrule material: Nickel-plated brass + polyolefin
- Maximum operating temperature: 135°C
- Watertightness: IP68 according to IEC 60529

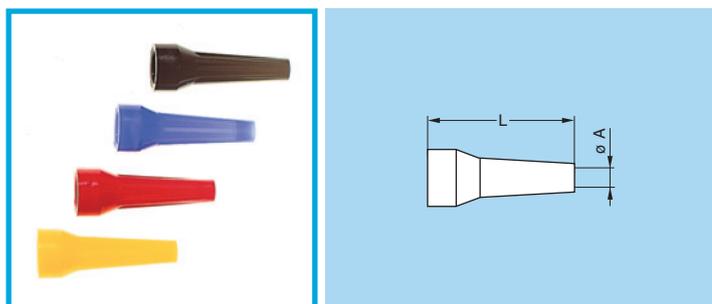
GCA Earthing washers



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	GMA.00.012.DG	1.2	22	1.1	1.4
	GMA.00.018.DG	1.8	22	1.8	2.1
	GMA.00.025.DG	2.5	22	2.5	2.8
	GMA.00.028.DG	2.8	22	2.8	3.1
	GMA.00.032.DG	3.2	22	3.2	3.5
	GMD.00.025.DG	2.5	22	2.5	2.8
	GMD.00.028.DG	2.8	22	2.8	3.1
	0T	GMA.0B.025.DG	2.5	24	2.5
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		4.0	24	4.0	4.4
GMA.0B.045.DG		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	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	7.8	36	7.8	8.8
	3T	GMA.3B.050.DG	4.5	42	4.5
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.

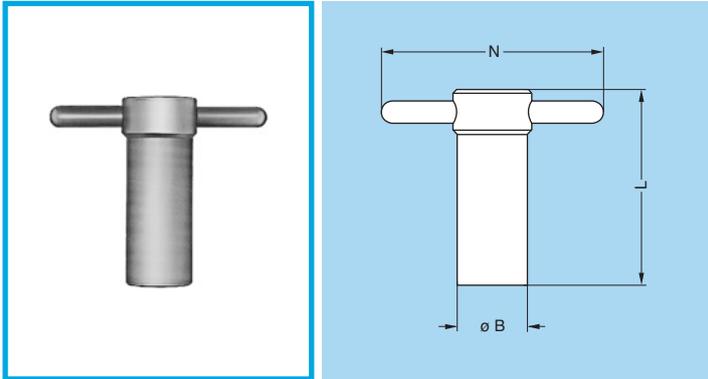
Ref.	Colour	Ref.	Colour	Ref.	Colour
A	blue	J	yellow	R	red
B	white	M	brown	S	orange
G	grey	N	black	V	green

Note: 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.

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Tooling

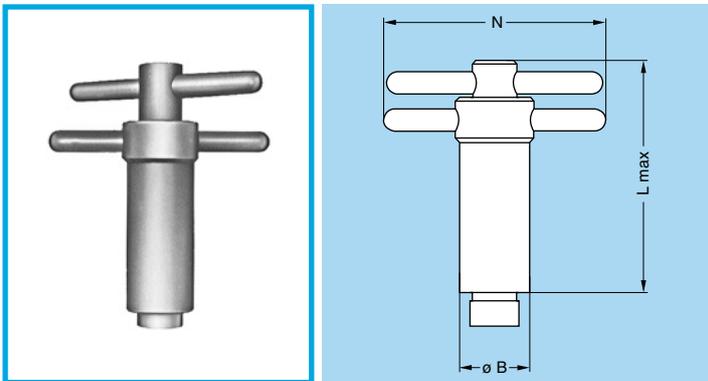
DCG Spanners for hexagonal nuts



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

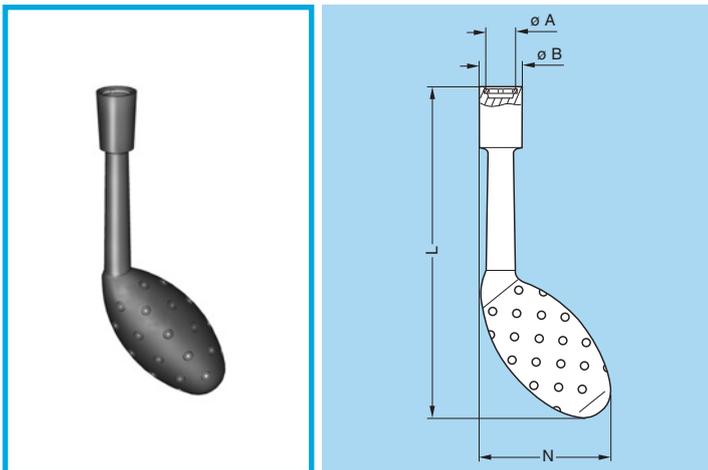
DCA Spanners for hexagonal nuts with locator for flats on socket thread



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

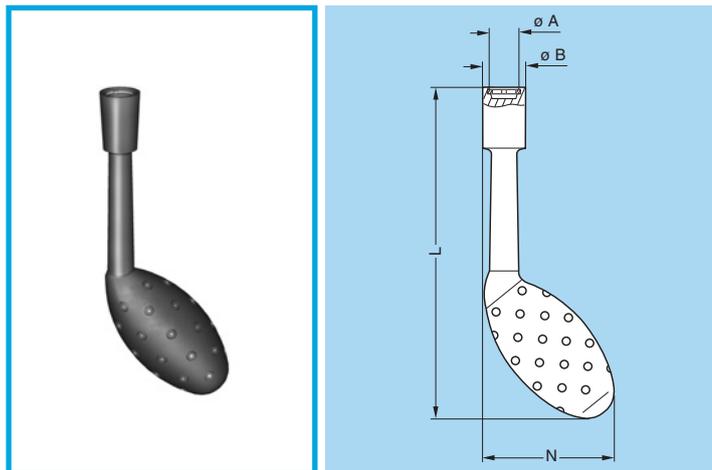
DCH Spanners for conical nuts



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

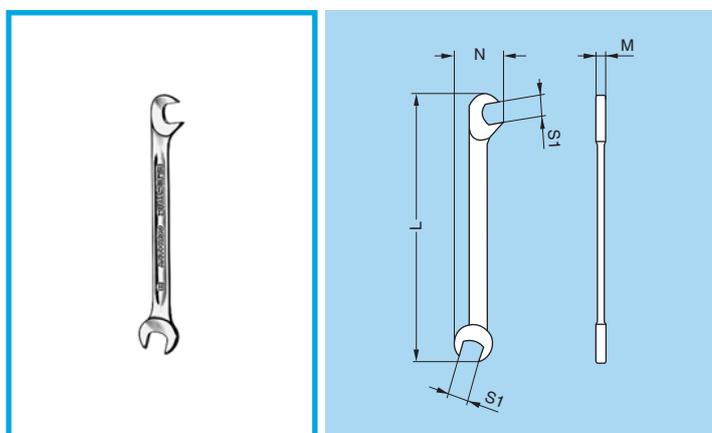
DCH Spanners for notched nuts



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

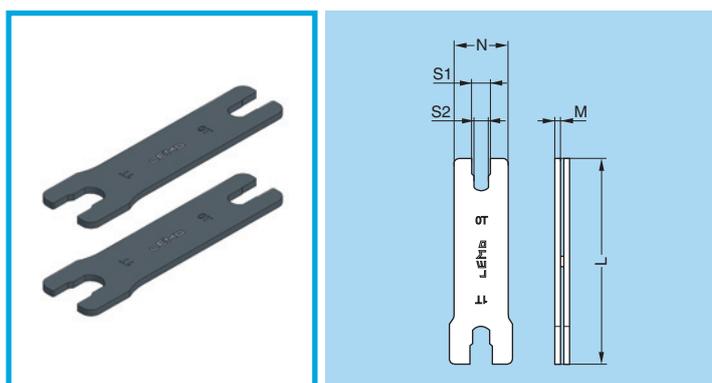
DCP Flat spanners for collet nut



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



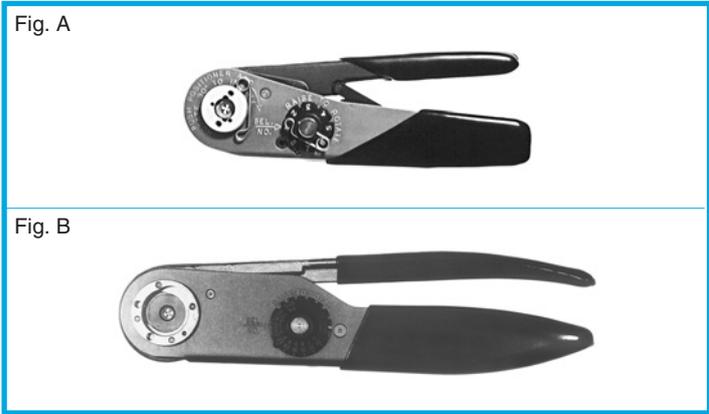
Part number	Series	Dimensions (mm)				
		L	M	N	S1	S2
DCP.0T.110.TN	0T	95	2.5	21	7.55	7.05
DCP.0T.110.TN	1T	95	2.5	25	11.05	9.05
DCP.2T.110.TN	2T	115	3.0	30	14.05	12.05
DCP.2T.110.TN	3T	115	3.0	35	16.05	14.05

● Material: blackened steel

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Crimping tools for electrical contacts

Manual crimping tools



Part number		Supplier
contact \varnothing 0.5-0.7 0.9-1.3 (Fig. A)	contact \varnothing 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.

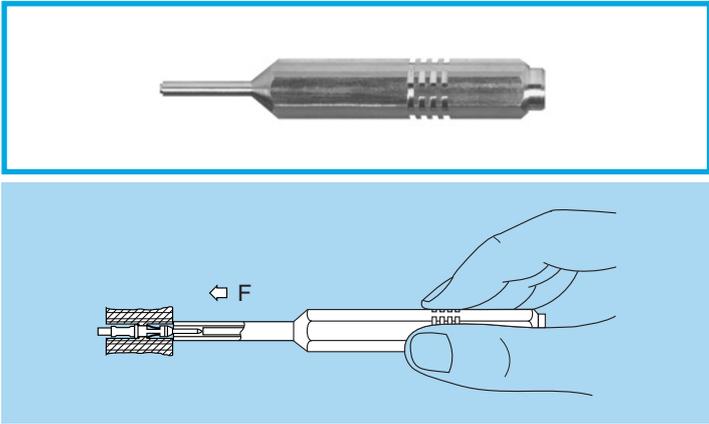
Pneumatic crimping tools



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

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

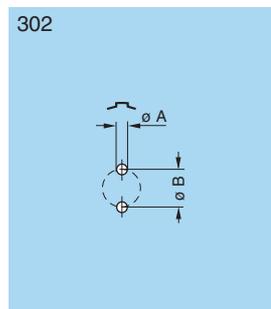
DCK Retention testing tools for crimp contacts 0.5-0.7-0.9 and 1.3 mm diameter



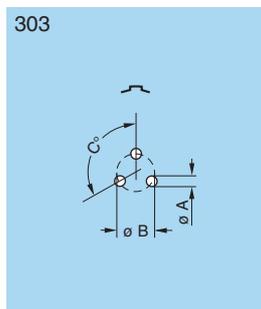
Testing tool part number		Contact \varnothing A	Test force (N)
For male contact	For female contact		
DCK.91.050.8LRC	DCK.91.050.8LRM	0.5	8
DCK.91.071.0LRC	DCK.91.071.0LRM	0.7	10
DCK.91.091.4LRC	DCK.91.091.4LRM	0.9	14
DCK.91.132.5LRC	DCK.91.132.5LRM	1.3	25

PCB drilling pattern

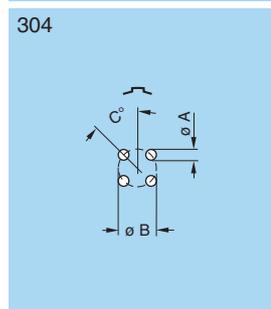
Fixed socket with straight print contact



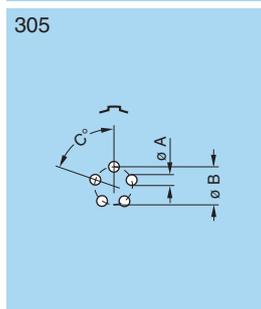
Series	Dimensions	
	A	B
TT	0.6	1.2
0T	0.8	2.2
1T	0.8	2.8
2T	0.8	4.4



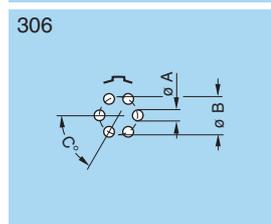
Series	Dimensions		
	A	B	C
TT	0.6	1.35	120°
0T	0.8	2.30	120°
1T	0.8	3.00	120°
2T	0.8	4.60	120°
3T	0.8	5.60	120°



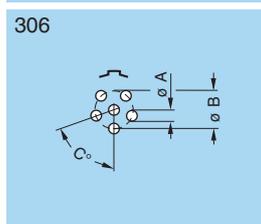
Series	Dimensions		
	A	B	C
TT	0.6	1.6	45°
0T	0.6	2.5	45°
1T	0.8	3.1	45°
2T	0.8	5.0	45°
3T	0.8	6.2	45°



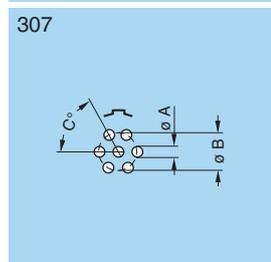
Series	Dimensions		
	A	B	C
TT	0.5	1.7	72°
0T	0.6	2.8	72°
1T	0.8	3.4	72°
2T	0.8	5.2	72°
3T	0.8	6.7	72°



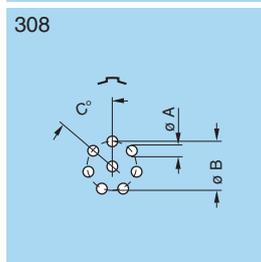
Series	Dimensions		
	A	B	C
0T	0.6	3.0	60°
1T	0.8	3.7	60°



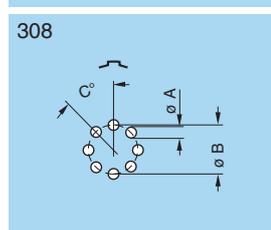
Series	Dimensions		
	A	B	C
2T	0.8	5.6	72°
3T	0.8	7.1	72°



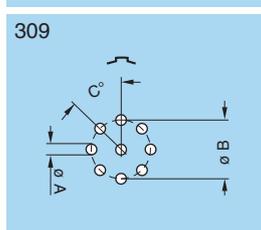
Series	Dimensions		
	A	B	C
0T	0.6	3.00	60°
1T	0.8	3.70	60°
2T	0.8	5.80	60°
3T	0.8	7.08	60°



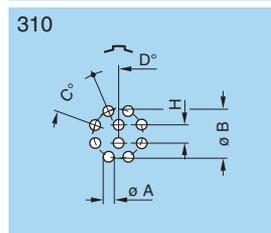
Series	Dimensions		
	A	B	C
1T	0.8	3.8	51°26'



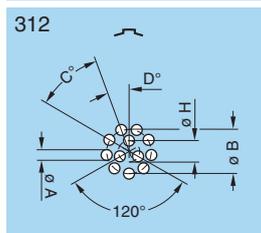
Series	Dimensions		
	A	B	C
2T	0.8	6.4	45°
3T	0.8	7.5	45°



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



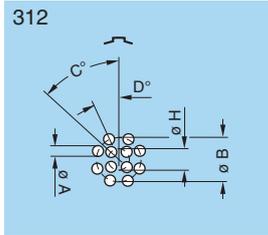
Series	Dimensions				
	A	B	C	D	H
1T	0.6	3.95	45°	22°30'	1.40
2T	0.8	6.30	45°	22°30'	2.15
3T	0.8	7.90	45°	22°30'	2.80



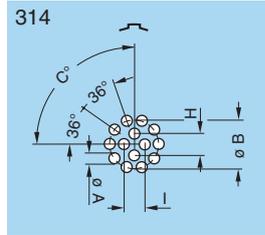
Series	Dimensions				
	A	B	C	D	H
0T	0.5	3.3	40°	20°	1.25

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

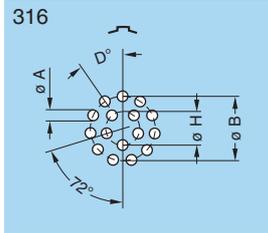
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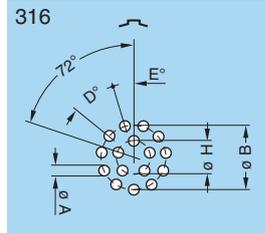
Series	Dimensions				
	A	B	C	D	H
2T	0.8	6.50	45°	22°30'	2.80
3T	0.8	8.20	45°	22°30'	3.40



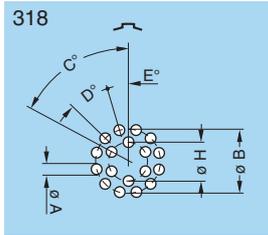
Series	Dimensions				
	A	B	C	H	I
1T	0.6	4.4	90°	1.90	1.80
2T	0.8	6.5	90°	2.65	2.65
3T	0.8	8.2	90°	3.40	3.40



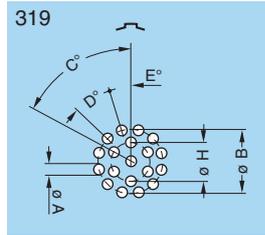
Series	Dimensions			
	A	B	D	H
1T	0.6	4.4	32°44'	2.0



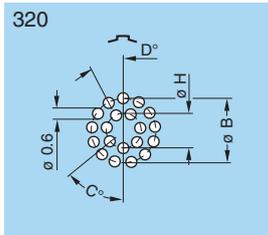
Series	Dimensions				
	A	B	D	E	H
2T	0.8	6.6	32°44'	16°22'	3.10
3T	0.8	8.4	32°44'	16°22'	3.86



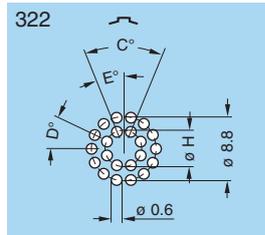
Series	Dimensions					
	A	B	C	D	E	H
2T	0.8	6.7	60°	30°	15°	3.50
3T	0.8	8.4	60°	30°	15°	4.34



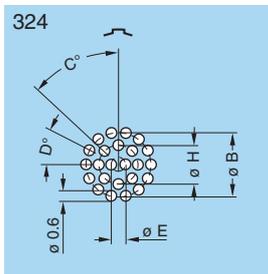
Series	Dimensions					
	A	B	C	D	E	H
2T	0.8	6.7	60°	30°	15°	3.5



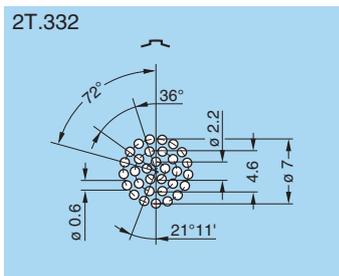
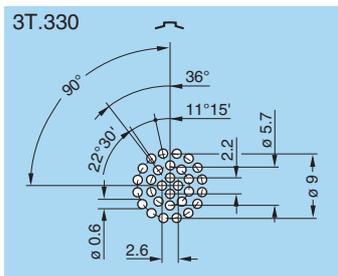
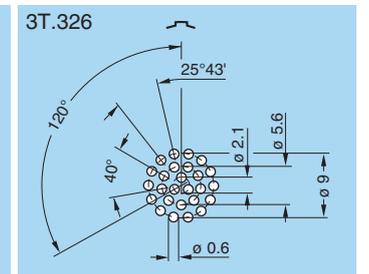
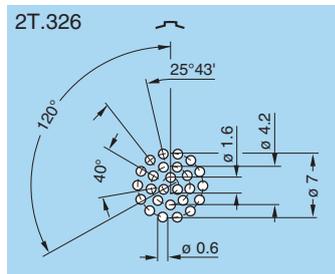
Series	Dimensions			
	B	C	D	H
3T	8.62	51°26'	27°42'	4.78



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.

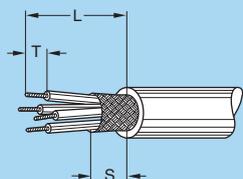
Metal collet nut tightening torque

Series	Maximum metal collet nut tightening torque
TT	0.25
0T	0.70
1T	0.80

Series	Maximum metal collet nut tightening torque
2T	2.00
3T	3.00

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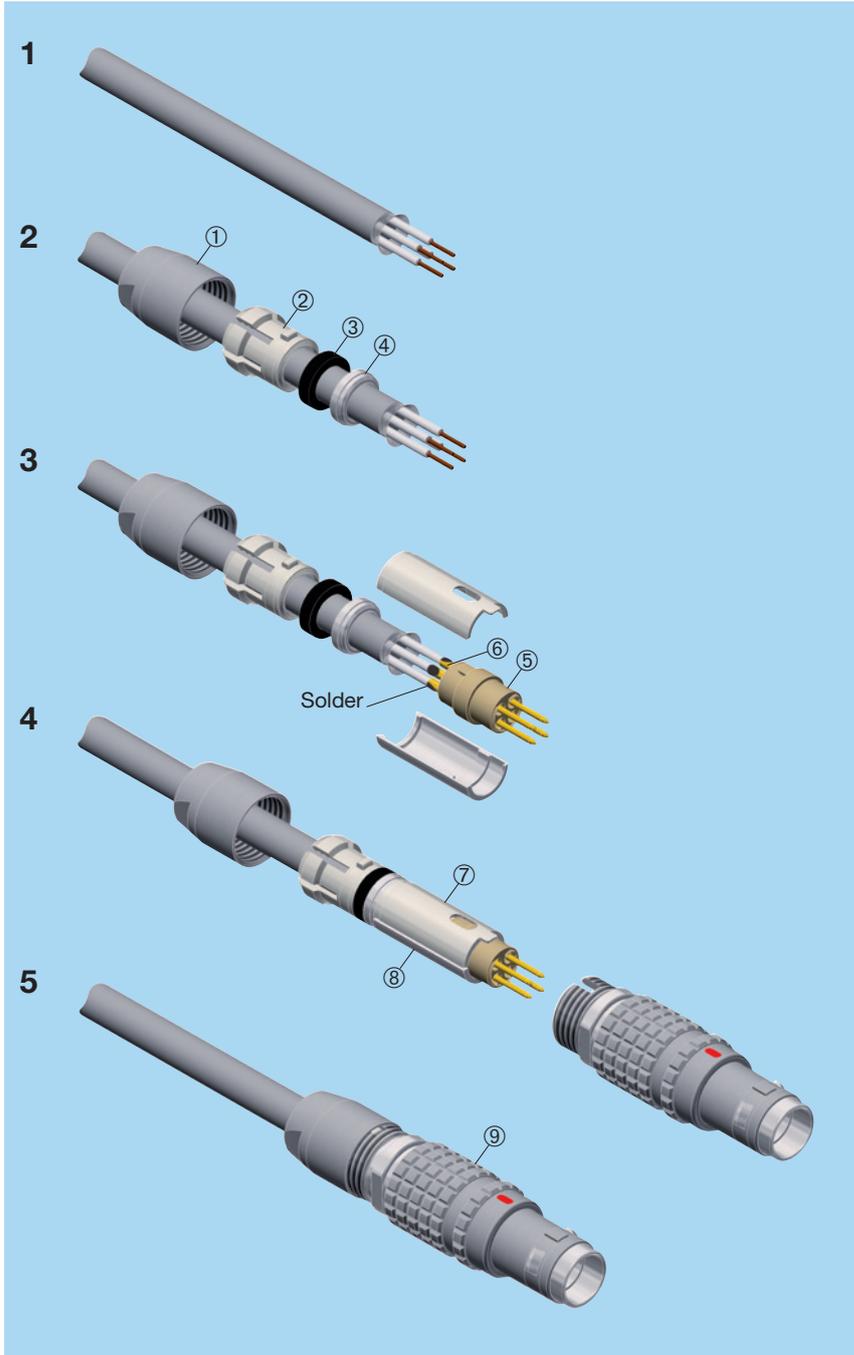
Cable assembly



	Reference	ø contact (mm)	Cable stripping lengths (mm)					
			Solder			Crimp		
			L	S	T	L	S	T
TT	302	0.5	8.0	4	2.5	11.0	4	3.0
	303	0.5	8.0	4	2.5	11.0	4	3.0
	304	0.5	8.0	4	2.5	11.0	4	3.0
0T	302/303	0.9	9.0	5	4.0	9.0	5	4.0
	304/305	0.7	8.0	5	3.5	9.0	5	4.0
	306/307/309	0.5	7.0	5	2.5			
	312	0.35	7.0	5	2.5			
1T	302/303	1.3	10.5	7	3.5	14.5	7	4.0
	304/305	0.9	10.5	7	3.0	14.5	7	4.0
	306/307/308	0.7	10.5	7	3.0	14.5	7	4.0
	310/314/316	0.5	13.0	7	2.5			
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

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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 20).

Note:

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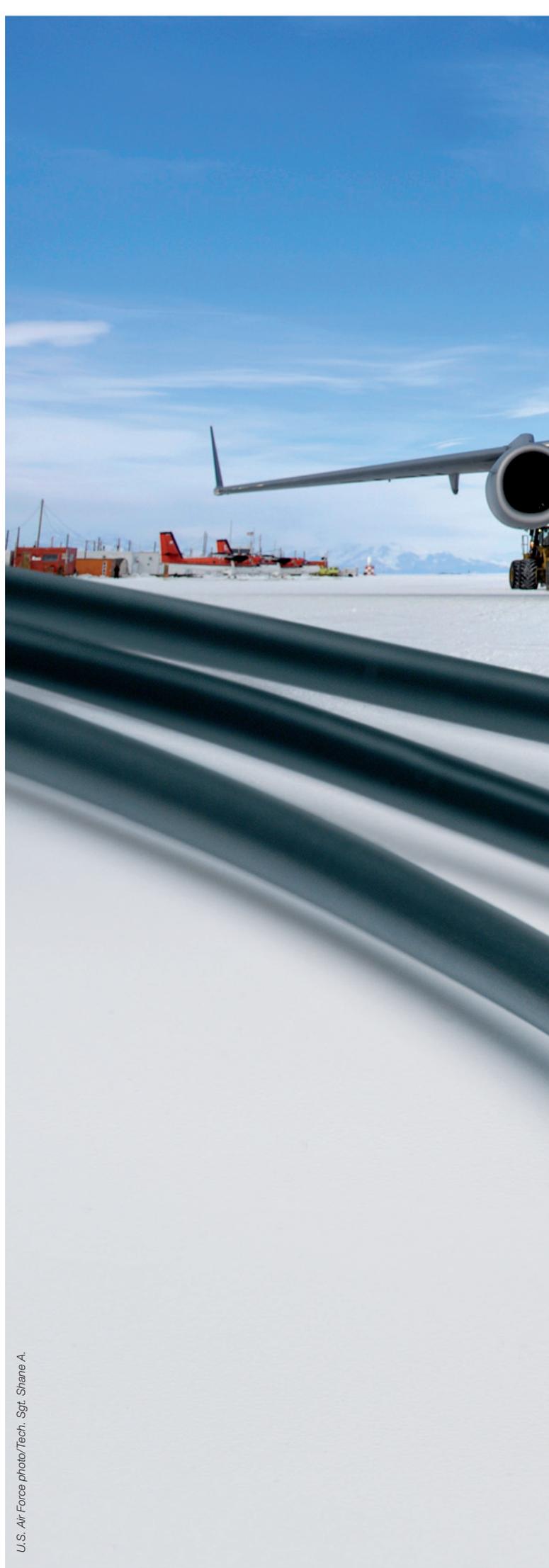
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