

# 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	> 5000 cycles	IEC 60512-5 test 9a
Humidity	up to 95% at 60° C	–
Temperature range	-55° C, +200° C	–
Resistance to vibration	10-2000 Hz, 15 g	IEC 60512-4 test 6d
Shock resistance	100 g, 6 ms	IEC 60512-4 test 6c
Salt spray corrosion test	> 1000 h	IEC 60512-6 test 11f
Protection index (mated)	IP68	IEC 60529
Latching retention force	> 100 N	–

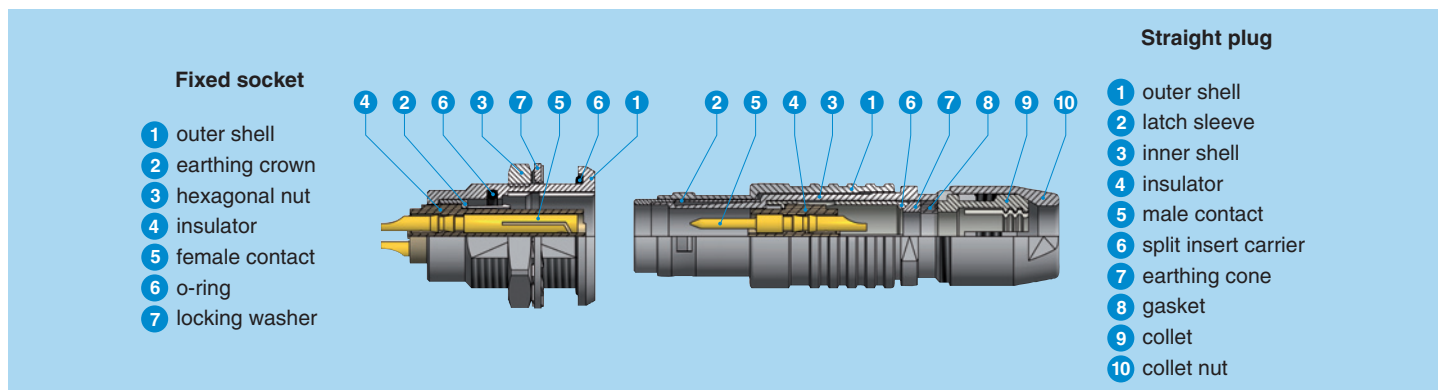
Electrical	Value	Standard
Shielding efficiency at 10 MHz	> 75 dB	IEC 60169-1-3
Shielding efficiency at 1 GHz	> 40 dB	IEC 60169-1-3

## Material and Treatments

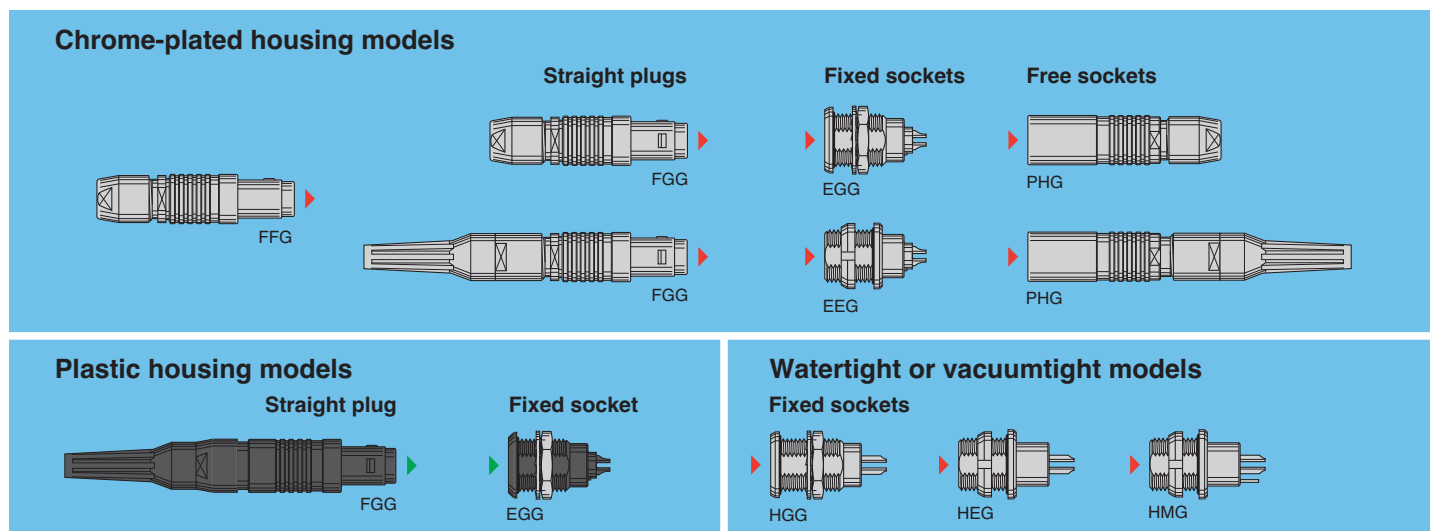
Outershell and collet nut		Latch sleeve/earthing crown		Other metallic components	
Material	Surface treatment	Material	Surface treatment	Material	Surface treatment
Brass	Chrome	Brass/Bronze	Nickel	Brass	Nickel
Brass	Black chrome	Brass/Bronze	Nickel	Brass	Nickel
POM	–	Brass/Bronze	Nickel	Brass	Nickel

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

## Part Section Showing Internal Components

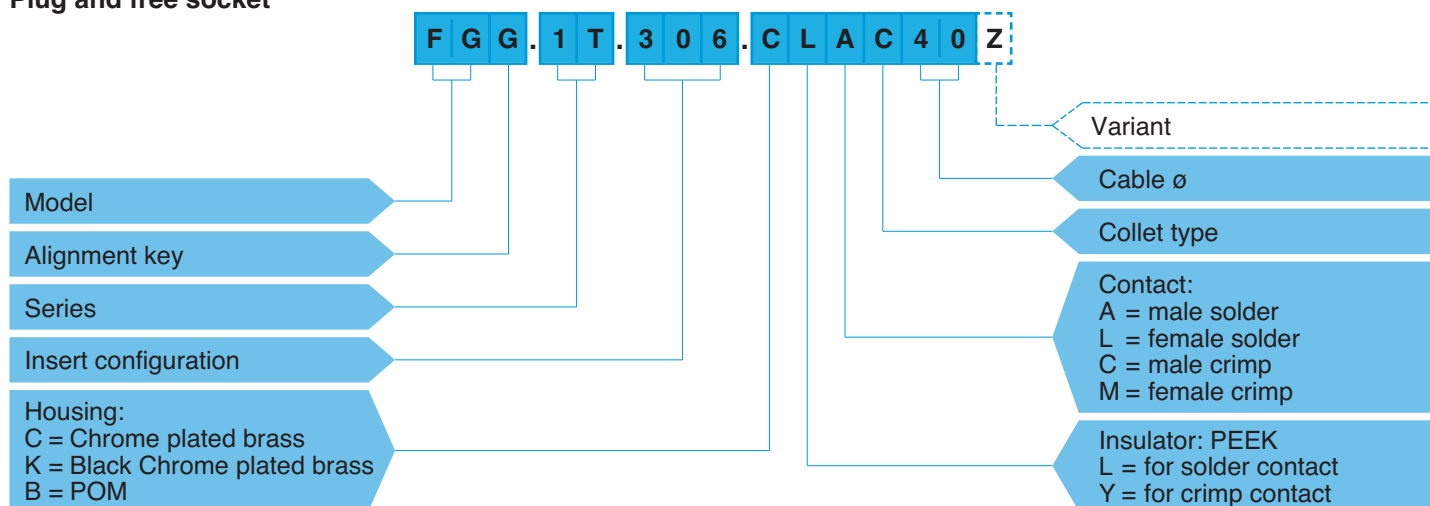


## Interconnections



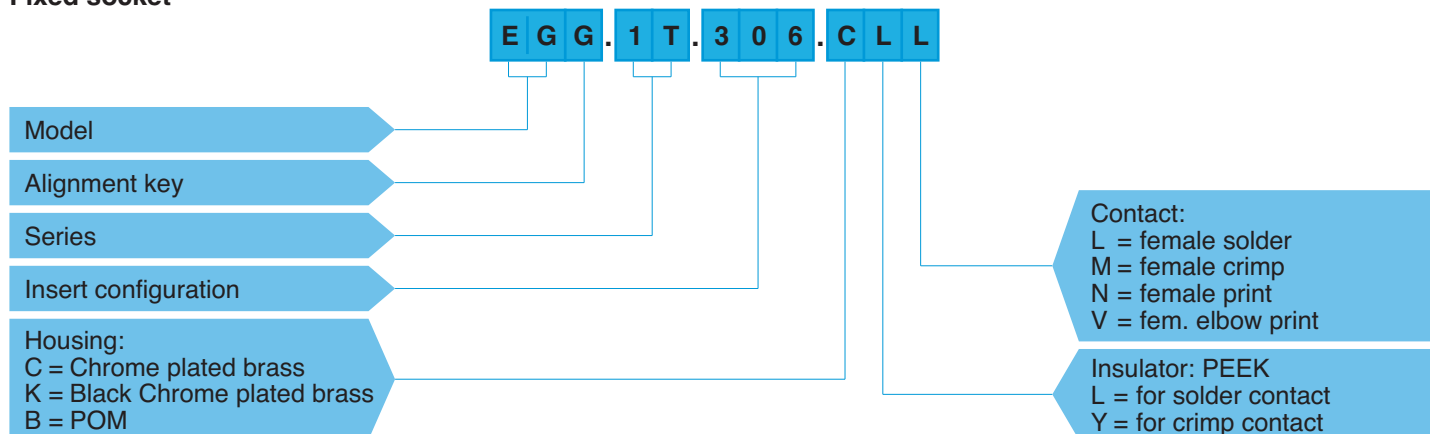
## Part Numbering System

### Plug and free socket



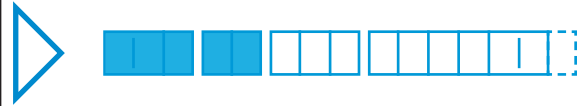
**FGG.1T.306.CLAC40Z** = Straight plug with key (G) and cable collet for bend relief, 1T series, multipole type with 6 contacts, outer shell in chrome-plated brass, PEEK insulator, male solder contacts, C type collet for 4.0 mm diameter cable and nut for fitting a bend relief.

### Fixed socket



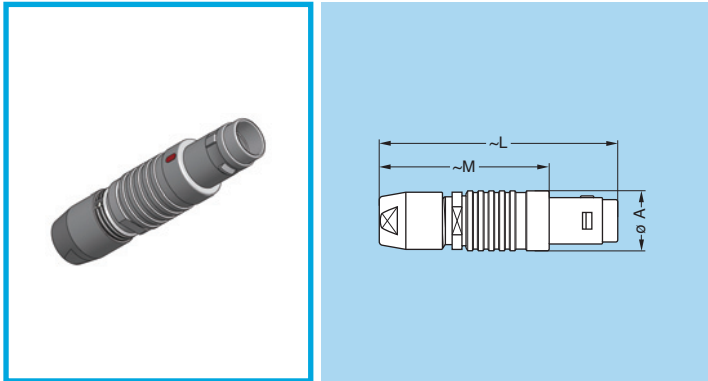
**EGG.1T.306.CLL** = fixed socket, nut fixing, with key (G), 1T series, multipole type with 6 contacts, outer shell in chrome-plated brass, PEEK insulator, female solder contacts.

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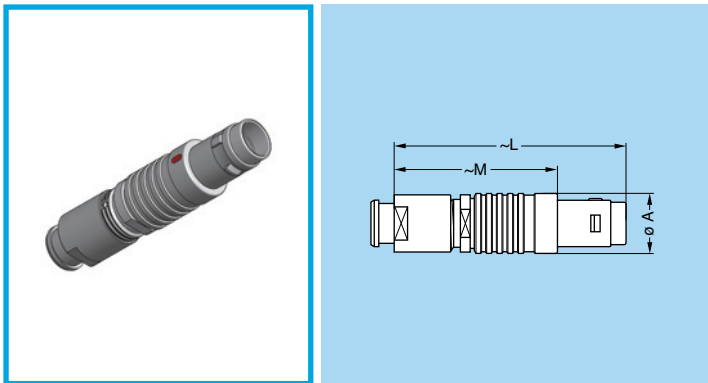
## Chrome-plated housing models

### FGG Straight plug, cable collet



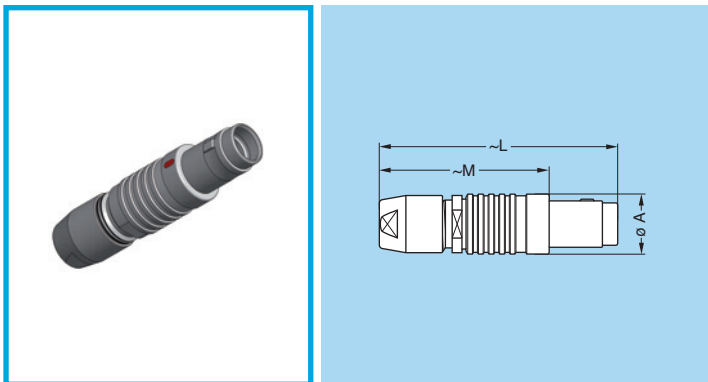
Reference		Dimensions (mm)			Cable ø	
Model	Series	A	L	M	min.	max.
FGG	TT	6.5	33.2	25.2	2.4	3.0
FGG	0T	9.0	39.0	29.0	1.0	5.0
FGG	1T	12.0	46.0	35.0	1.3	6.5
FGG	2T	15.0	55.0	43.0	1.3	8.5
FGG	3T	17.0	64.0	49.0	2.6	10.5

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



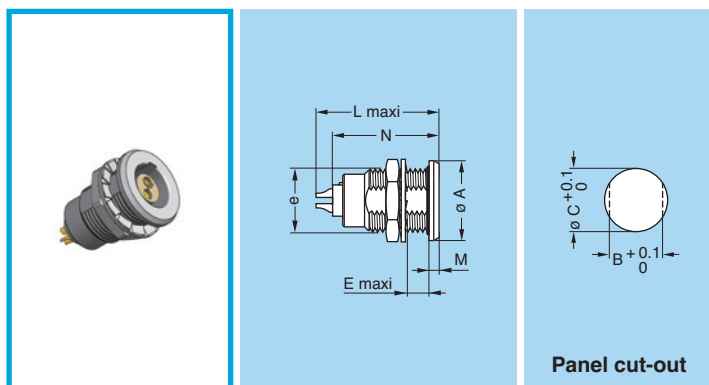
Reference		Dimensions (mm)			Cable ø	
Model	Series	A	L	M	min.	max.
FGG	TT	6.5	32.7	24.7	2.4	3.0
FGG	0T	9.0	38.0	28.0	1.0	5.0
FGG	1T	12.0	45.0	34.0	1.3	6.5
FGG	2T	15.0	54.0	42.0	1.3	8.5
FGG	3T	17.0	62.0	47.0	2.6	10.5

### FFG Straight plug, non latching, cable collet



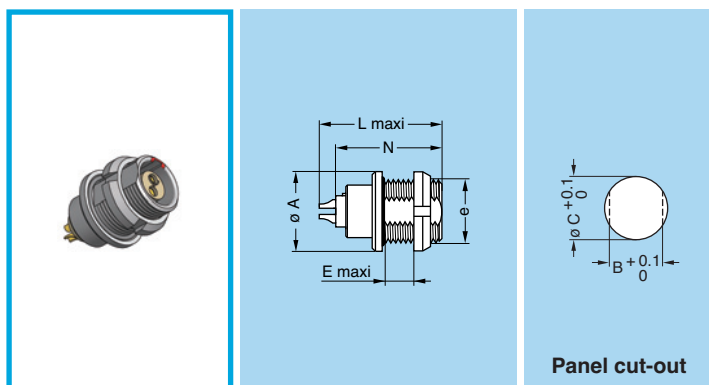
Reference		Dimensions (mm)			Cable ø	
Model	Series	A	L	M	min.	max.
FFG	TT	6.5	33.2	25.2	2.4	3.0
FFG	0T	9.0	39.0	29.0	1.0	5.0
FFG	1T	12.0	46.0	35.0	1.3	6.5
FFG	2T	15.0	55.0	43.0	1.3	8.5
FFG	3T	17.0	64.0	49.0	2.6	10.5

### EGG Fixed socket, nut fixing



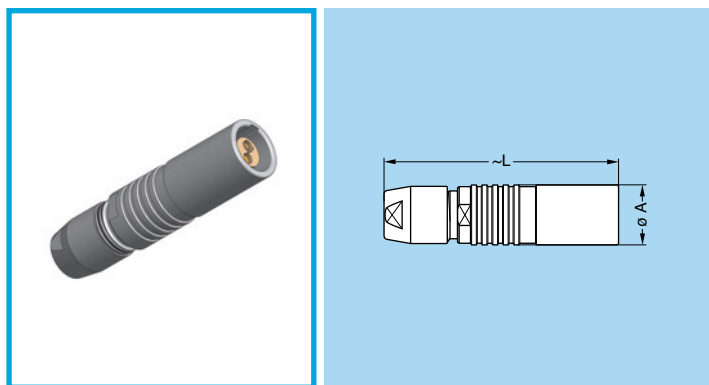
Reference		Dimensions (mm)						Panel cut-out	
Model	Series	A	e	E	L	M	N	B	C
EGG	TT	10.0	M7x0.5	5.5	16.0	1.2	13.5	6.4	7.1
EGG	0T	12.0	M9x0.6	6.0	21.0	1.5	19.1	8.3	9.1
EGG	1T	15.5	M12x1.0	6.0	23.0	1.8	21.5	10.6	12.1
EGG	2T	18.5	M15x1.0	7.5	26.5	1.8	24.6	13.6	15.1
EGG	3T	23.5	M18x1.0	9.6	30.1	2.5	25.0	16.6	18.1

### EEG Fixed socket, nut fixing, back panel mounting



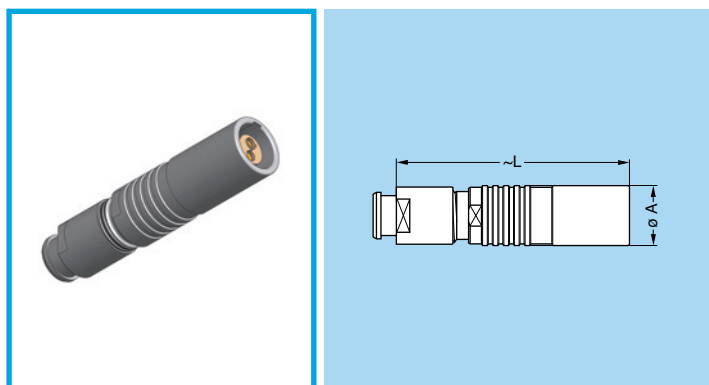
Reference		Dimensions (mm)					Panel cut-out	
Model	Series	A	e	E	L	N	B	C
EEG	TT	10.0	M7x0.5	4.5	16.0	13.5	6.4	7.1
EEG	0T	12.0	M9x0.6	6.5	21.0	19.1	8.3	9.1
EEG	1T	15.5	M12x1.0	6.5	23.0	21.5	10.6	12.1
EEG	2T	18.5	M15x1.0	7.5	26.5	24.6	13.6	15.1
EEG	3T	23.5	M18x1.0	7.5	30.1	25.0	16.6	18.1

### PHG Free socket, cable collet



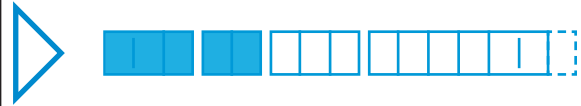
Reference		Dim. (mm)		Cable $\phi$	
Model	Series	A	L	min.	max.
PHG	TT	6.5	32.0	2.4	3.0
PHG	0T	9.0	38.0	1.0	5.0
PHG	1T	12.0	43.5	1.3	6.5
PHG	2T	15.0	52.0	1.3	8.5
PHG	3T	17.0	61.5	2.6	10.5

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



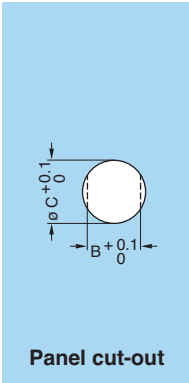
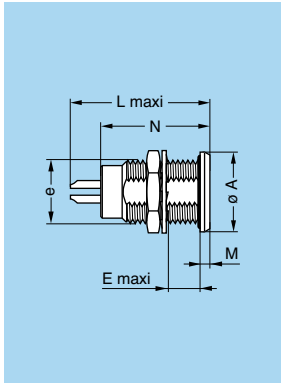
Reference		Dim. (mm)		Cable $\phi$	
Model	Series	A	L	min.	max.
PHG	TT	6.5	31.5	2.4	3.0
PHG	0T	9.0	37.0	1.0	5.0
PHG	1T	12.0	42.5	1.3	6.5
PHG	2T	15.0	51.0	1.3	8.5
PHG	3T	17.0	60.0	2.6	10.5

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## Watertight or vacuumtight models

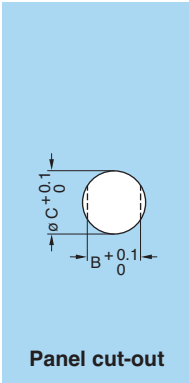
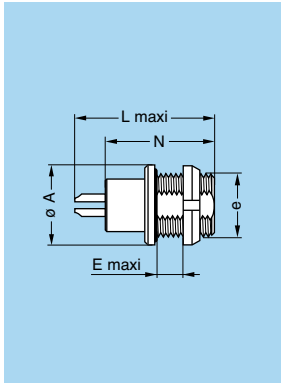
### HGG Fixed socket, nut fixing, watertight or vacuumtight



Reference		Dimensions (mm)						Panel cut-out	
Model	Series	A	e	E	L	M	N	B	C
HGG	0T	12.0	M9x0.6	6.5	22.0	1.5	18.5	8.3	9.1
HGG	1T	15.5	M12x1.0	6.0	26.0	1.8	21.5	10.6	12.1
HGG	2T	18.5	M15x1.0	8.0	30.5	2.0	25.0	13.6	15.1

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

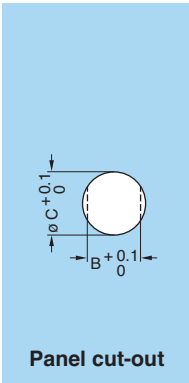
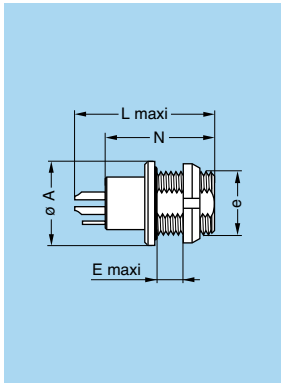
### HEG Fixed socket, nut fixing, watertight or vacuumtight, back panel mounting



Reference		Dimensions (mm)					Panel cut-out	
Model	Series	A	e	E	L	N	B	C
HEG	0T	12.0	M9x0.6	6.5	22.0	18.5	8.3	9.1
HEG	1T	15.5	M12x1.0	6.5	26.0	21.5	10.6	12.1
HEG	2T	18.5	M15x1.0	7.5	30.5	25.0	13.6	15.1

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

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



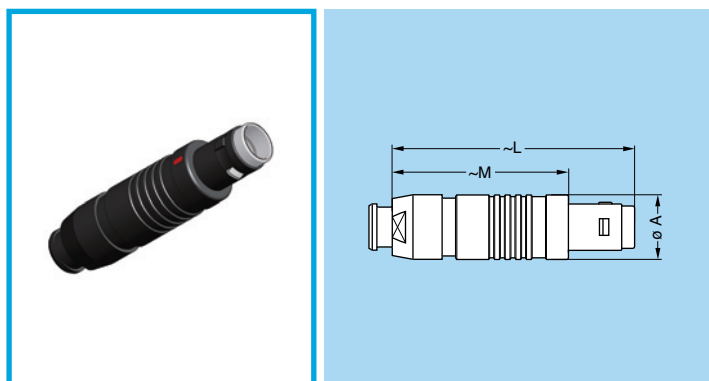
Reference		Dimensions (mm)					Panel cut-out	
Model	Series	A	e	E	L	N	B	C
HMG	0T	12.0	M9x0.6	6.5	22.0	18.5	8.3	9.1
HMG	1T	15.5	M12x1.0	6.5	26.0	21.5	10.6	12.1
HMG	2T	18.5	M15x1.0	7.5	30.5	25.0	13.6	15.1

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

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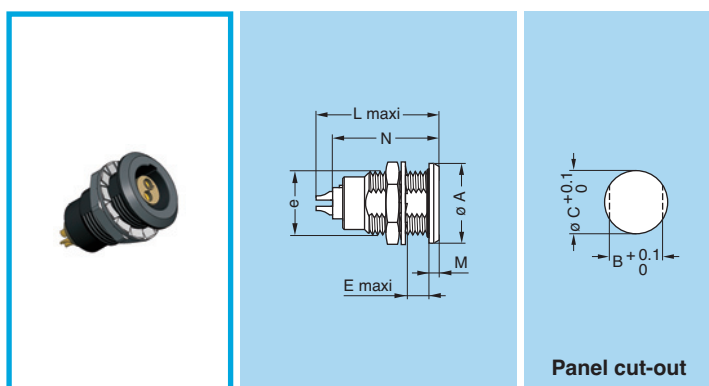
## Plastic housing models

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



Reference		Dimensions (mm)			Cable $\phi$	
Model	Series	A	L	M	min.	max.
<b>FGG</b>	<b>0T</b>	9.7	38.5	28.5	1.0	5.0
<b>FGG</b>	<b>1T</b>	13.0	45.0	34.0	1.3	6.5

### EGG Fixed socket, nut fixing, POM outer shell



Reference		Dimensions (mm)						Panel cut-out	
Model	Series	A	e	E	L	M	N	B	C
<b>EGG</b>	<b>0T</b>	12.0	M9x0.6	6	21.0	1.5	19.1	8.3	9.1
<b>EGG</b>	<b>1T</b>	15.5	M12x1.0	6	22.2	1.8	18.5	10.6	12.1

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## Alignment Key

	Key	Contact type	
		Plug	Socket
	<b>G</b>	male	female
	<b>A</b>	male	female
	<b>B</b>	male	female
	<b>J</b>	female	male

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# Insert configurations

## Multipole

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

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## Multipole

		Solder contacts		Crimp contacts		Reference	Series	Contact ø (mm)	Contact type				AWG		Test voltage (kV rms)	Test voltage (kV dc)	Rated current (A)
		Solder	Crimp	Print (straight)	Print (elbow)				Solder (max.)	Crimp							
										min.	max.						
7		307	0T	0.5	●		●	●	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	●		●	●	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	●		●	●	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	●				28			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			

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## Multipole

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

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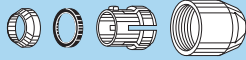
## Multipole

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

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## Collets



	Type	Cable $\varnothing$ (mm)	
		min.	max.
<b>TT</b>	<b>C27</b>	2.4	2.6
	<b>C31</b>	2.7	3.0
<b>OT</b>	<b>C10</b>	1.0	1.2
	<b>C15</b>	1.3	1.5
	<b>C20</b>	1.6	2.0
	<b>C25</b>	2.1	2.5
	<b>C30</b>	2.6	3.0
	<b>C35</b>	3.1	3.5
	<b>C40</b>	3.6	4.0
	<b>C45</b>	4.1	4.5
<b>C50</b>	4.6	5.0	

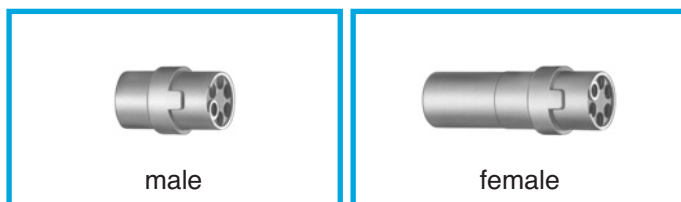
	Type	Cable $\varnothing$ (mm)	
		min.	max.
<b>1T</b>	<b>C15</b>	1.3	1.5
	<b>C20</b>	1.6	2.0
	<b>C25</b>	2.1	2.5
	<b>C30</b>	2.6	3.0
	<b>C35</b>	3.1	3.5
	<b>C40</b>	3.6	4.0
	<b>C45</b>	4.1	4.5
	<b>C50</b>	4.6	5.0
	<b>C55</b>	5.1	5.5
	<b>C60</b>	5.6	6.0
	<b>C65</b>	6.1	6.5

	Type	Cable $\varnothing$ (mm)	
		min.	max.
<b>2T</b>	<b>C15</b>	1.3	1.5
	<b>C20</b>	1.6	2.0
	<b>C25</b>	2.1	2.5
	<b>C30</b>	2.6	3.0
	<b>C35</b>	3.1	3.5
	<b>C40</b>	3.6	4.0
	<b>C45</b>	4.1	4.5
	<b>C50</b>	4.6	5.0
	<b>C55</b>	5.1	5.5
	<b>C60</b>	5.6	6.0
	<b>C65</b>	6.1	6.5
	<b>C70</b>	6.6	7.0
	<b>C75</b>	7.1	7.5
	<b>C80</b>	7.6	8.0
	<b>C85</b>	8.1	8.5

	Type	Cable $\varnothing$ (mm)	
		min.	max.
<b>3T</b>	<b>C30</b>	2.6	3.0
	<b>C35</b>	3.1	3.5
	<b>C40</b>	3.6	4.0
	<b>C45</b>	4.1	4.5
	<b>C50</b>	4.6	5.0
	<b>C55</b>	5.1	5.5
	<b>C60</b>	5.6	6.0
	<b>C65</b>	6.1	6.5
	<b>C70</b>	6.6	7.0
	<b>C75</b>	7.1	7.5
	<b>C80</b>	7.6	8.0
	<b>C85</b>	8.1	8.5
	<b>C90</b>	8.6	9.0
<b>C95</b>	9.1	9.5	
<b>C10</b>	9.6	10.0	
<b>C11</b>	10.1	10.5	

## Spare parts

### FGG-EGG Insulators for crimp contacts



	Type	Insulator part number	
		Male contact	Female contact
<b>TT</b>	302	FGG.00.302.YL	EGG.00.402.YL
	303	FGG.00.303.YL	EGG.00.403.YL
	304	FGG.00.304.YL	EGG.00.404.YL
<b>OT</b>	302	FGG.0B.302.YL	EGG.0B.402.YL
	303	FGG.0B.303.YL	EGG.0B.403.YL
	304	FGG.0B.304.YL	EGG.0B.404.YL
	305	FGG.0B.305.YL	EGG.0B.405.YL
	306	FGG.0B.306.YL	-
<b>1T</b>	307	FGG.0B.307.YL	-
	309	FGG.0B.309.YL	-
	302	FGG.1B.302.YL	EGG.1B.402.YL
	303	FGG.1B.303.YL	EGG.1B.403.YL
	304	FGG.1B.304.YL	EGG.1B.404.YL
	305	FGG.1B.305.YL	EGG.1B.405.YL
	306	FGG.1B.306.YL	EGG.1B.406.YL
	307	FGG.1B.307.YL	EGG.1B.407.YL
<b>2T</b>	308	FGG.1B.308.YL	EGG.1B.408.YL
	310	FGG.1B.310.YL	-
	314	FGG.1B.314.YL	-
	316	FGG.1B.316.YL	-
	302	FGG.2B.302.YL	EGG.2B.402.YL
	303	FGG.2B.303.YL	EGG.2B.403.YL
	304	FGG.2B.304.YL	EGG.2B.404.YL
	305	FGG.2B.305.YL	EGG.2B.405.YL
	306	FGG.2B.306.YL	EGG.2B.406.YL
	307	FGG.2B.307.YL	EGG.2B.407.YL
	308	FGG.2B.308.YL	EGG.2B.408.YL

	Type	Insulator part number	
		Male contact	Female contact
<b>2T</b>	310	FGG.2B.310.YL	EGG.2B.410.YL
	312	FGG.2B.312.YL	EGG.2B.412.YL
	314	FGG.2B.314.YL	EGG.2B.414.YL
	316	FGG.2B.316.YL	EGG.2B.416.YL
	318	FGG.2B.318.YL	EGG.2B.418.YL
<b>3T</b>	319	FGG.2B.319.YL	EGG.2B.419.YL
	302	FGG.3B.302.YL	EGG.3B.402.YL
	303	FGG.3B.303.YL	EGG.3B.403.YL
	304	FGG.3B.304.YL	EGG.3B.404.YL
	305	FGG.3B.305.YL	EGG.3B.405.YL
	306	FGG.3B.306.YL	EGG.3B.406.YL
	307	FGG.3B.307.YL	EGG.3B.407.YL
	308	FGG.3B.308.YL	EGG.3B.408.YL
	309	FGG.3B.309.ML	EGG.3B.409.ML
	310	FGG.3B.310.YL	EGG.3B.410.YL
	312	FGG.3B.312.YL	EGG.3B.412.YL
	314	FGG.3B.314.YL	EGG.3B.414.YL
	316	FGG.3B.316.YL	EGG.3B.416.YL
	318	FGG.3B.318.YL	EGG.3B.418.YL
320	FGG.3B.320.YL	EGG.3B.420.YL	
322	FGG.3B.322.YL	EGG.3B.422.YL	
324	FGG.3B.324.YL	EGG.3B.424.YL	
326	FGG.3B.326.YL	EGG.3B.426.YL	
330	FGG.3B.330.YL	EGG.3B.430.YL	

**Note:** each insulator can be used both for crimp contacts of normal shape (fig. 1) or with reduced solder cups (fig. 2) as shown on page 12.

## FGG-EGG Crimp contacts

Fig. 1

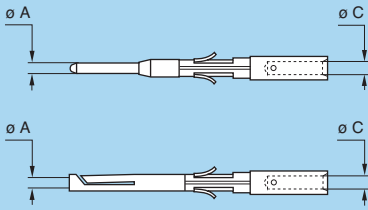
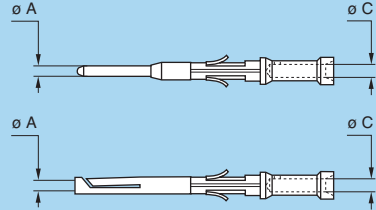


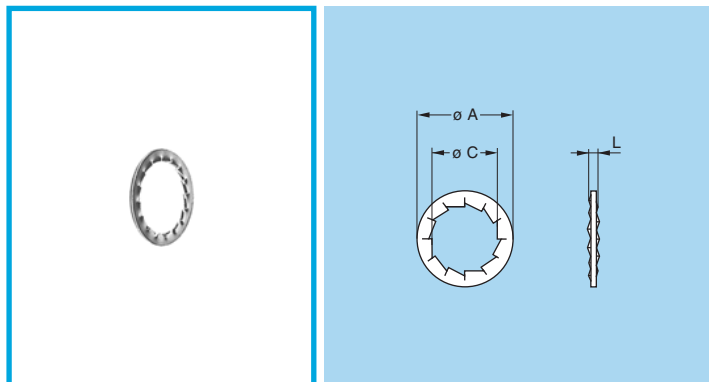
Fig. 2



	Types	ø (mm)		Contact part number		
		A	C	Male	Female	
<b>TT</b>	302	0.5	0.45	FGG.00.554.ZZC	EGG.00.654.ZZM	
	303	0.5	0.45	FGG.00.554.ZZC	EGG.00.654.ZZM	
	304	0.5	0.45	FGG.00.554.ZZC	EGG.00.654.ZZM	
<b>0T</b>	302/303	0.9	1.10	FGG.0B.560.ZZC	EGG.0B.660.ZZM	
	304/305	0.7	0.80	FGG.0B.555.ZZC	EGG.0B.655.ZZM	
	306/307/309	0.5	0.45	FGG.0B.554.ZZC	-	
<b>1T</b>	302/303	1.3	1.40	FGG.1B.565.ZZC	EGG.1B.665.ZZM	
	304/305	0.9	1.10	FGG.1B.560.ZZC	EGG.1B.660.ZZM	
	306/307/308	0.7	0.80	FGG.1B.555.ZZC	EGG.1B.655.ZZM	
	310/314/316	0.5	0.45	FGG.1B.554.ZZC	-	
<b>2T</b>	302	2.0	2.40	FGG.2B.575.ZZC	EGG.2B.675.ZZM	
	303	1.6	1.90	FGG.2B.570.ZZC	EGG.2B.670.ZZM	
	304/305	1.3	1.40	FGG.2B.565.ZZC	EGG.2B.665.ZZM	
	306/307	1.3	1.40	FGG.2B.565.ZZC	EGG.2B.665.ZZM	
	308/310	0.9	1.10	FGG.2B.560.ZZC	EGG.2B.660.ZZM	
	312/314/316	0.7	0.80	FGG.2B.555.ZZC	EGG.2B.655.ZZM	
	318/319	0.7	0.80	FGG.2B.555.ZZC	EGG.2B.655.ZZM	
	<b>3T</b>	302	3.0	3.20	FGG.3B.580.ZZC	EGG.3B.680.ZZM
		303/304/309	2.0	2.40	FGG.3B.575.ZZC	EGG.3B.675.ZZM
305/306/307		1.6	1.90	FGG.3B.570.ZZC	EGG.3B.670.ZZM	
308/309/310		1.3	1.40	FGG.3B.565.ZZC	EGG.3B.665.ZZM	
312/314		0.9	1.10	FGG.3B.560.ZZC	EGG.3B.660.ZZM	
316/318		0.9	1.10	FGG.3B.560.ZZC	EGG.3B.660.ZZM	
320/322/324		0.7	0.80	FGG.3B.555.ZZC	EGG.3B.655.ZZM	
326/330		0.7	0.80	FGG.3B.555.ZZC	EGG.3B.655.ZZM	

	Types	ø (mm)		Contact part number	
		A	C	Male	Female
<b>0T</b>	302/303	0.9	0.80	FGG.0B.561.ZZC	EGG.0B.661.ZZM
	302/303	0.9	0.45	FGG.0B.562.ZZC	EGG.0B.662.ZZM
	304/305	0.7	0.45	FGG.0B.556.ZZC	EGG.0B.656.ZZM
<b>1T</b>	302/303	1.3	1.10	FGG.1B.566.ZZC	EGG.1B.666.ZZM
	304/305	0.9	0.80	FGG.1B.561.ZZC	EGG.1B.661.ZZM
	306/307/308	0.7	0.45	FGG.1B.556.ZZC	EGG.1B.656.ZZM
<b>2T</b>	302	2.0	1.90	FGG.2B.576.ZZC	EGG.2B.676.ZZM
	303	1.6	1.40	FGG.2B.571.ZZC	EGG.2B.671.ZZM
	304/305	1.3	1.10	FGG.2B.566.ZZC	EGG.2B.666.ZZM
	306/307	1.3	1.10	FGG.2B.566.ZZC	EGG.2B.666.ZZM
	304/305	1.3	0.80	FGG.2B.567.ZZC	EGG.2B.667.ZZM
	306/307	1.3	0.80	FGG.2B.567.ZZC	EGG.2B.667.ZZM
	308/310	0.9	0.80	FGG.2B.561.ZZC	EGG.2B.661.ZZM
	308/310	0.9	0.45	FGG.2B.562.ZZC	EGG.2B.662.ZZM
	312/314/316	0.7	0.45	FGG.2B.556.ZZC	EGG.2B.656.ZZM
318/319	0.7	0.45	FGG.2B.556.ZZC	EGG.2B.656.ZZM	
<b>3T</b>	303/304/309	2.0	1.90	FGG.3B.576.ZZC	EGG.3B.676.ZZM
	305/306/307	1.6	1.40	FGG.3B.571.ZZC	EGG.3B.671.ZZM
	308/309/310	1.3	1.10	FGG.3B.566.ZZC	EGG.3B.666.ZZM
	312/314	0.9	0.80	FGG.3B.561.ZZC	EGG.3B.661.ZZM
	316/318	0.9	0.80	FGG.3B.561.ZZC	EGG.3B.661.ZZM
	316/318	0.9	0.45	FGG.3B.562.ZZC	EGG.3B.662.ZZM
	320/322/324	0.7	0.45	FGG.3B.556.ZZC	EGG.3B.656.ZZM
	326/330	0.7	0.45	FGG.3B.556.ZZC	EGG.3B.656.ZZM

## GBA Locking washers

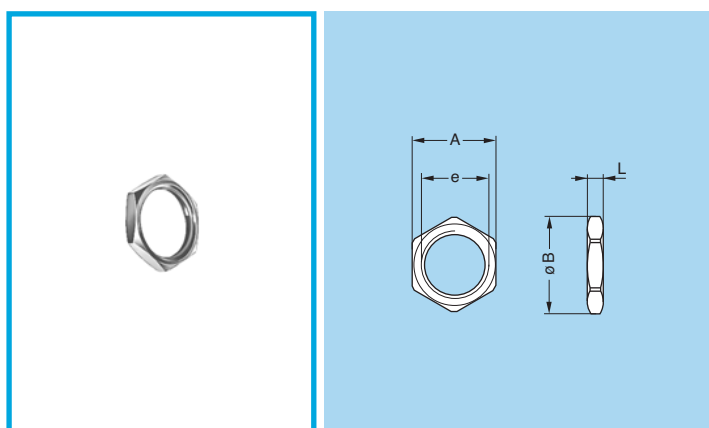


Part number	Series	Dimensions (mm)		
		A	C	L
<b>GBA.00.250.FN</b>	TT	9.5	7.1	1.0
<b>GBA.0S.250.FN</b>	0T	12.5	9.1	1.0
<b>GBA.1S.250.FN</b>	1T	16.0	12.1	1.0
<b>GBA.2S.250.FN</b>	2T	19.5	15.1	1.2
<b>GBA.3S.250.FN</b>	3T	25.0	18.1	1.4

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

- Material: Nickel-plated bronze ( $3\ \mu\text{m}$ )

## GEA Hexagonal nuts

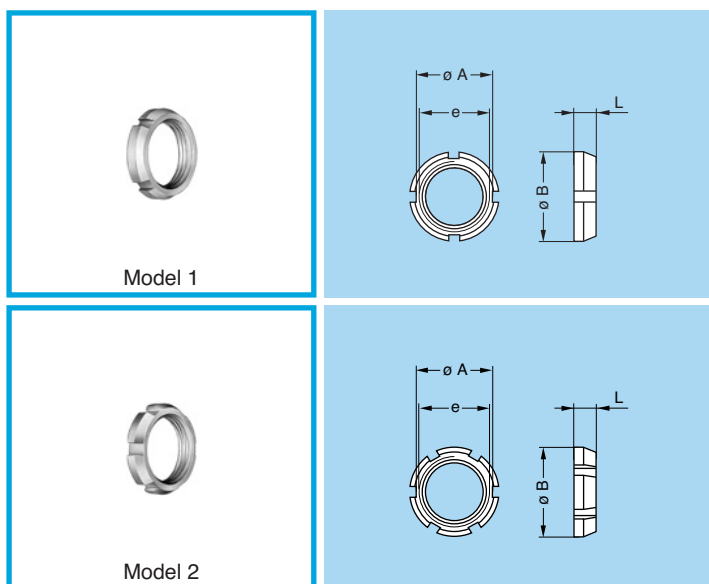


Part number	Series	Dimensions (mm)			
		A	B	e	L
<b>GEA.00.240.LN</b>	TT	9	10.2	M7 x 0.5	2.0
<b>GEA.0S.240.LN</b>	0T	11	12.4	M9 x 0.6	2.0
<b>GEA.1S.240.LN</b>	1T	14	15.8	M12 x 1.0	2.5
<b>GEA.2S.240.LN</b>	2T	17	19.2	M15 x 1.0	2.7
<b>GEA.3S.240.LN</b>	3T	22	25.0	M18 x 1.0	3.0

**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.

- Material: Nickel-plated brass ( $3\ \mu\text{m}$ ), Natural anodized aluminium alloy, Stainless steel

## GEG Notched nuts

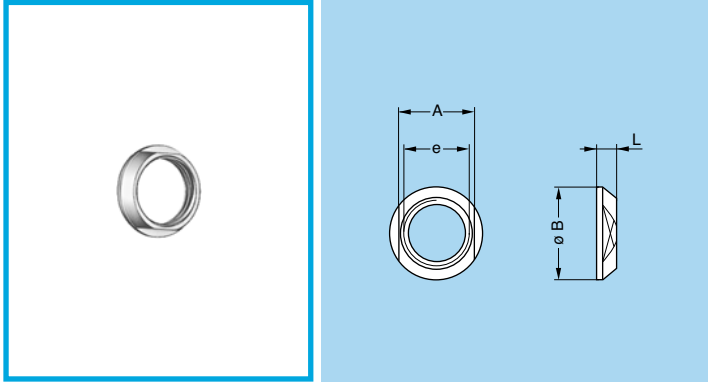


Part number	Series	Dimensions (mm)				Model
		A	B	e	L	
<b>GEG.00.240.LC</b>	TT	8.6	10	M7 x 0.5	2.5	1
<b>GEG.0S.240.LC</b>	0T	10.5	12	M9 x 0.6	2.5	1
<b>GEG.1S.240.LC</b>	1T	14.0	16	M12 x 1.0	3.5	1
<b>GEG.2S.240.LC</b>	2T	17.5	20	M15 x 1.0	3.5	2

**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.

- Material: Chrome-plated brass (Ni  $3\ \mu\text{m}$  + Cr  $0.3\ \mu\text{m}$ )

## GEC Conical nuts



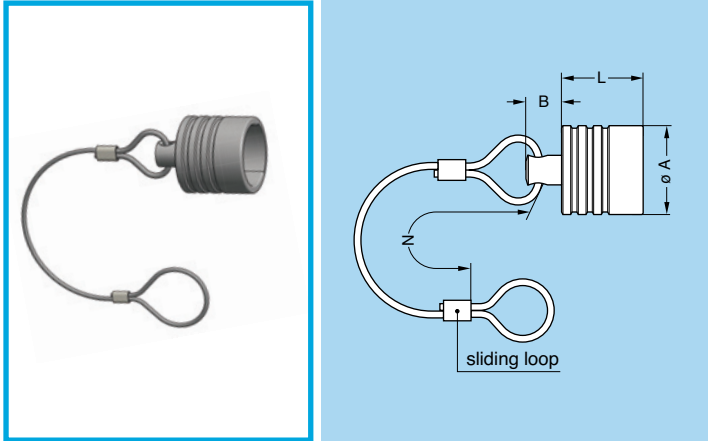
Part number	Series	Dimensions (mm)			
		A	B	e	L
<b>GEC.00.240.LC</b>	TT	8	10	M7 x 0.5	2.5
<b>GEC.0S.240.LC</b>	0T	10	12	M9 x 0.6	2.5
<b>GEC.1S.240.LC</b>	1T	13	16	M12 x 1.0	3.2
<b>GEC.2S.240.LC</b>	2T	17	20	M15 x 1.0	3.8
<b>GEC.3S.240.LC</b>	3T	20	24	M18 x 1.0	4.5

**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 part numbers in the adjacent table.

- Material: Chrome-plated brass (Ni 3  $\mu\text{m}$  + Cr 0.3  $\mu\text{m}$ )

## Accessories

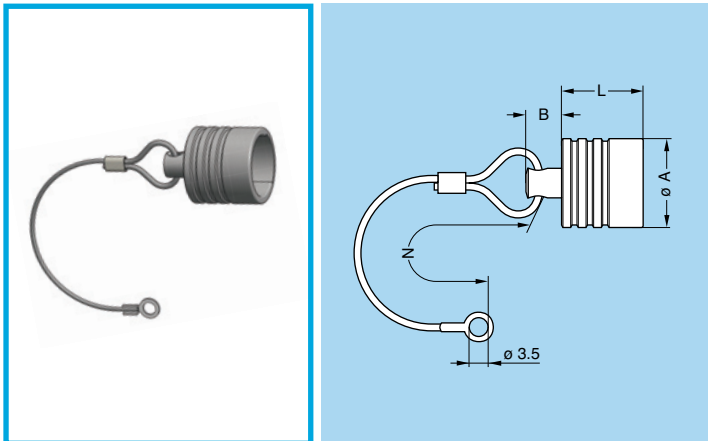
### BFG Blanking caps for plugs



Part number	Dimensions (mm)			
	A	B	L	N
<b>BFG.TT.100.CAS</b>	6.5	4.0	9.0	60
<b>BFG.0T.100.CAS</b>	9.0	5.0	11.0	85
<b>BFG.1T.100.CAS</b>	12.0	6.0	12.4	85
<b>BFG.2T.100.CAS</b>	15.0	6.0	13.8	85
<b>BFG.3T.100.CAS</b>	17.0	6.0	17.6	120

- Body material: Chrome-plated brass (Ni 3  $\mu\text{m}$ )
- Lanyard material: Stainless steel
- Crimp ferrule material: Nickel-plated brass + polyolefin
- O-ring material: Silicone rubber or FPM
- Maximum operating temperature: 135°C
- Watertightness: IP68 according to IEC 60529

### BHG Blanking caps for fixed plugs

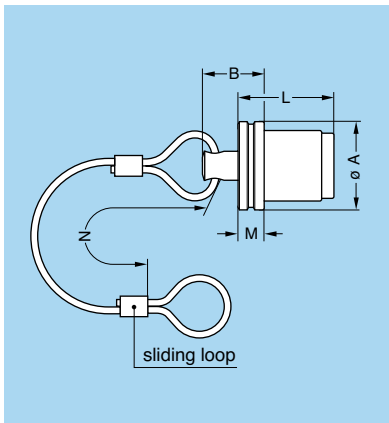


Part number	Dimensions (mm)			
	A	B	L	N
<b>BHG.TT.100.CAS</b>	6.5	4.0	9.0	60
<b>BHG.0T.100.CAS</b>	9.0	5.0	11.0	85
<b>BHG.1T.100.CAS</b>	12.0	6.0	12.4	85
<b>BHG.2T.100.CAS</b>	15.0	6.0	13.8	85
<b>BHG.3T.100.CAS</b>	17.0	6.0	17.6	120

- Body material: Chrome-plated brass (Ni 3  $\mu\text{m}$ )
- Lanyard material: Stainless steel
- Crimp ferrule material: Nickel-plated brass + polyolefin
- O-ring material: Silicone rubber or FPM
- Maximum operating temperature: 135°C
- Watertightness: IP68 according to IEC 60529



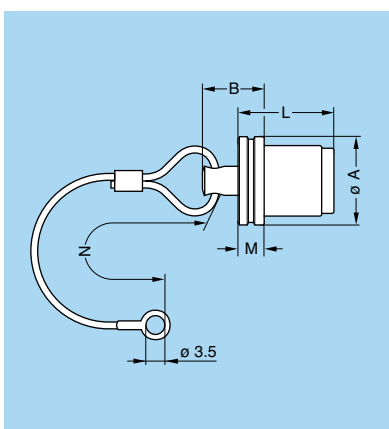
## BRF Blanking caps for free sockets



Part number	Dimensions (mm)				
	A	B	L	M	N
<b>BRF.TT.200.CAZ</b>	6.5	6.5	10.5	2.5	60
<b>BRF.0T.200.CAZ</b>	9.0	7.7	12.7	2.7	85
<b>BRF.1T.200.CAZ</b>	12.0	9.5	14.4	3.5	85
<b>BRF.2T.200.CAZ</b>	15.0	10.4	16.3	4.4	85
<b>BRF.3T.200.CAZ</b>	17.0	11.4	20.2	5.4	120

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

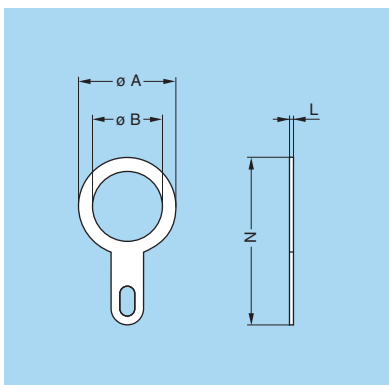
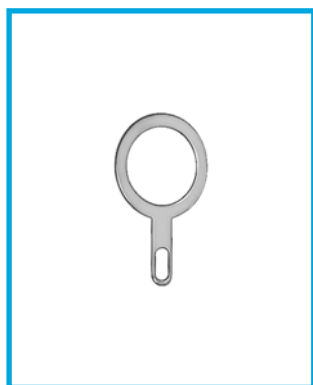
## BRE Blanking caps for sockets



Part number	Dimensions (mm)				
	A	B	L	M	N
<b>BRE.TT.200.CAZ</b>	6.5	6.5	10.5	2.5	60
<b>BRE.0T.200.CAZ</b>	9.0	7.7	12.7	2.7	85
<b>BRE.1T.200.CAZ</b>	12.0	9.5	14.4	3.5	85
<b>BRE.2T.200.CAZ</b>	15.0	10.4	16.3	4.4	85
<b>BRE.3T.200.CAZ</b>	17.0	11.4	20.2	5.4	120

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

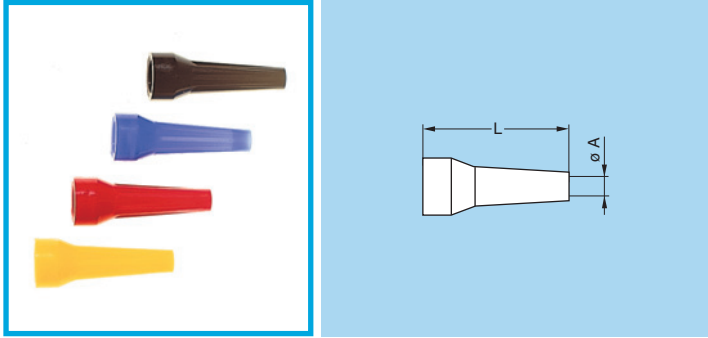
## GCA Earthing washers



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

- Material: CuSnZn plated brass (2  $\mu$ m)

## Bend relief



	Part number	Bend relief		Cable ø	
		A	L	min.	max.
<b>TT</b>	<b>GMA.00.012.DG</b>	1.2	22	1.1	1.4
	<b>GMA.00.018.DG</b>	1.8	22	1.8	2.1
	<b>GMA.00.025.DG</b>	2.5	22	2.5	2.8
	<b>GMA.00.028.DG</b>	2.8	22	2.8	3.1
	<b>GMA.00.032.DG</b>	3.2	22	3.2	3.5
	<b>GMD.00.025.DG</b>	2.5	22	2.5	2.8
	<b>GMD.00.028.DG</b>	2.8	22	2.8	3.1
	<b>GMD.00.032.DG</b>	3.2	22	3.2	3.5
<b>0T</b>	<b>GMA.0B.025.DG</b>	2.5	24	2.5	2.9
	<b>GMA.0B.030.DG</b>	3.0	24	3.0	3.4
	<b>GMA.0B.035.DG</b>	3.5	24	3.5	3.9
	<b>GMA.0B.040.DG</b>	4.0	24	4.0	4.4
	<b>GMA.0B.045.DG</b>	4.5	24	4.5	5.2
<b>1T</b>	<b>GMA.1B.025.DG</b>	2.5	30	2.5	2.9
	<b>GMA.1B.030.DG</b>	3.0	30	3.0	3.4
	<b>GMA.1B.035.DG</b>	3.5	30	3.5	3.9
	<b>GMA.1B.040.DG</b>	4.0	30	4.0	4.4
	<b>GMA.1B.045.DG</b>	4.5	30	4.5	4.9
	<b>GMA.1B.054.DG</b>	5.4	30	5.4	6.0
	<b>GMA.1B.065.DG</b>	6.5	30	6.5	7.0

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

**Note:** all dimensions are in millimetres.

Ref.	Colour
<b>A</b>	blue
<b>B</b>	white
<b>G</b>	grey

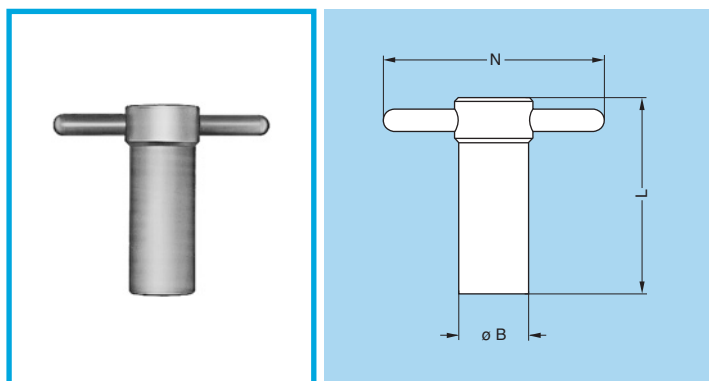
Ref.	Colour
<b>J</b>	yellow
<b>M</b>	brown
<b>N</b>	black

Ref.	Colour
<b>R</b>	red
<b>S</b>	orange
<b>V</b>	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.

## Tooling

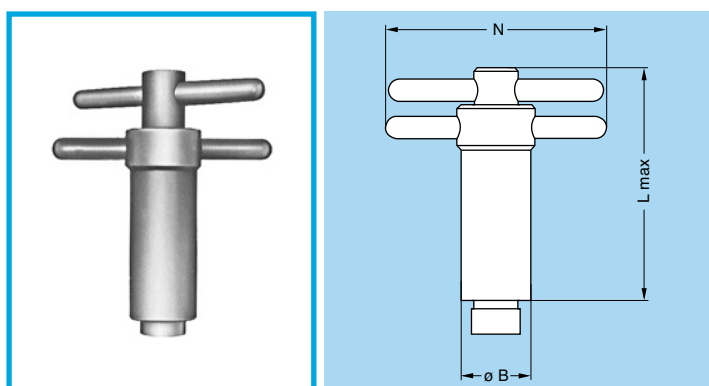
### DCG Spanners for hexagonal nuts



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

● Material: blackened steel

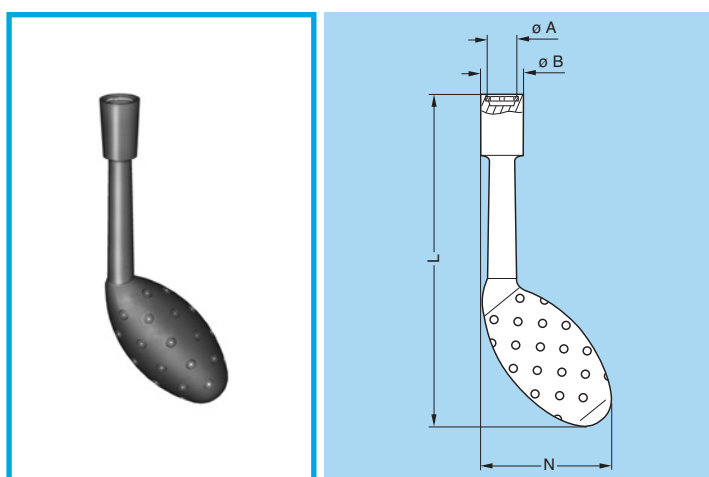
### DCA Spanners for hexagonal nuts with locator for flats on socket thread



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

● Material: blackened steel

### DCH Spanners for conical nuts

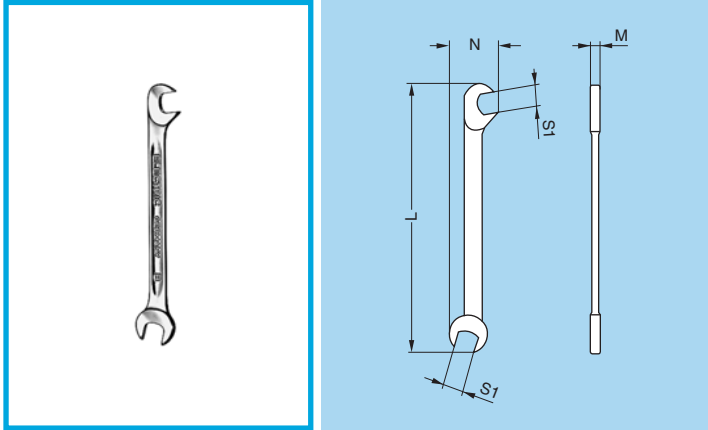


Part number	Series	Dimensions (mm)				Part number of the nut
		A	B	L	N	
<b>DCH.91.101.PN</b>	TT	10.1	12.8	124	48.3	GEC.00.240.LC
<b>DCH.91.121.PN</b>	0T	12.1	14.8	124	49.3	GEC.0S.240.LC
<b>DCH.91.161.PN</b>	1T	16.1	21.0	124	51.9	GEC.1S.240.LC
<b>DCH.91.201.PN</b>	2T	20.1	22.8	129	53.5	GEC.2S.240.LC

● Material: dark grey polyurethane

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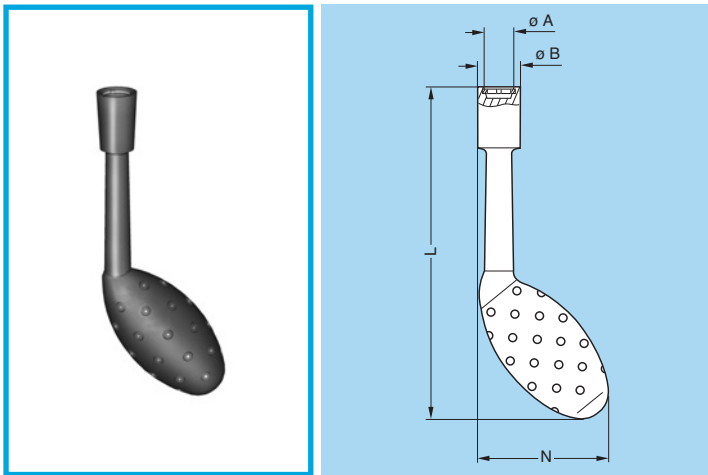
### DCP Flat spanners for TT collet nut



Part number	Dimensions (mm)			
	L	M	N	S1
<b>DCP.99.050.TC</b>	78	2	12.6	5.0
<b>DCP.99.055.TC</b>	78	2	12.6	5.5
<b>DCP.99.060.TC</b>	78	2	12.6	6.0

● Material: chrome-plated steel

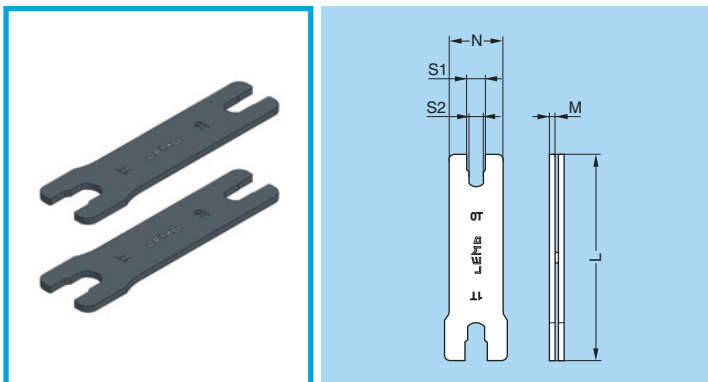
### DCH Spanners for notched nuts



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

● Material: blue polyurethane

### DCP Set of flat spanners for collet nuts



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

● Material: blackened steel

## Crimping tools for electrical contacts

### Manual crimping tools

Fig. A

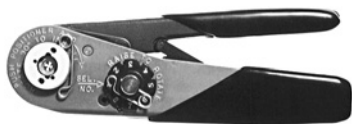
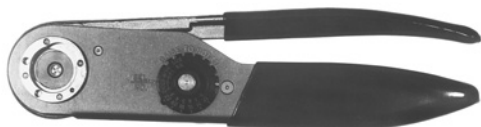


Fig. B



Part number			Supplier
contact $\varnothing$ 0.5-0.7 0.9-1.3 (Fig. A)	contact $\varnothing$ 1.6-2.0 (Fig. B)	contact $\varnothing$ 3.0-4.0 (Fig. B)	
<b>DPC.91.701.V<sup>1)</sup></b>	<b>DPC.91.101.A<sup>2)</sup></b>	<b>DPC.91.102.V</b>	LEMO
<b>MH860<sup>1)</sup></b>	<b>AF8<sup>2)</sup></b>	<b>M300BT</b>	DANIELS
<b>616336<sup>1)</sup></b>	<b>615708<sup>2)</sup></b>	–	ASTRO

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

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

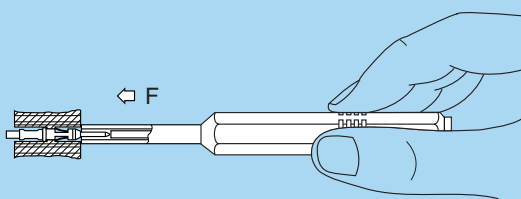
### Pneumatic crimping tools



Part number	Supplier
<b>DPC.91.701.C</b>	LEMO
<b>85230</b>	BALMAR
<b>621101</b>	BUCHANAN

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

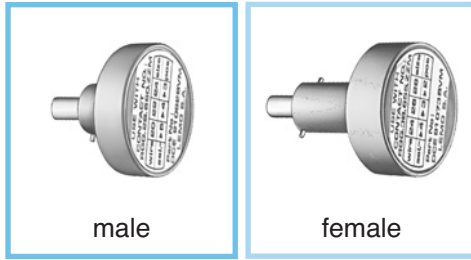
### DCK Retention testing tools for crimp contacts 0.5-0.7-0.9 and 1.3 mm diameter



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

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## DCE Positioners for crimp contacts $\varnothing$ 0.5-0.7-0.9 and 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.

Fig. 1

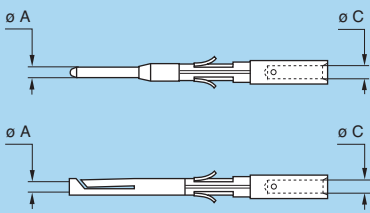
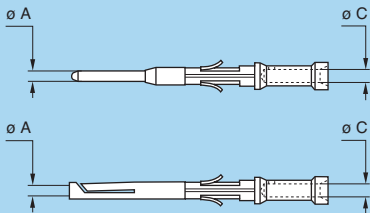


Fig. 2



**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.

Our technical department is at your disposal to study and propose a solution to all your applications.

	Types	$\varnothing$ (mm)			Conductor AWG	Positioners part number		
		A	C	$\varnothing$ I <sub>E</sub>		For male contact	For female contact	
<b>TT</b>	302	0.5	0.45	1	28-30-32	<b>DCE.91.050.0VC</b>	<b>DCE.91.050.0VM</b>	
	303	0.5	0.45	1	28-30-32	<b>DCE.91.050.0VC</b>	<b>DCE.91.050.0VM</b>	
	304	0.5	0.45	1	28-30-32	<b>DCE.91.050.0VC</b>	<b>DCE.91.050.0VM</b>	
<b>OT</b>	302/303	0.9	1.10	1	20-22-24	<b>DCE.91.090.BVC</b>	<b>DCE.91.090.BVM</b>	
	302/303	0.9	0.80	2	22-24-26	<b>DCE.91.090.BVC</b>	<b>DCE.91.090.BVM</b>	
	302/303	0.9	0.45	2	28-30-32	<b>DCE.91.090.AVC</b>	<b>DCE.91.090.AVM</b>	
	304/305	0.7	0.80	1	22-24-26	<b>DCE.91.070.BVC</b>	<b>DCE.91.070.BVM</b>	
	304/305	0.7	0.45	2	28-30-32	<b>DCE.91.070.BVC</b>	<b>DCE.91.070.BVM</b>	
	306/307/309	0.5	0.45	1	28-30-32	<b>DCE.91.050.BVC</b>	<b>DCE.91.050.BVM</b>	
<b>1T</b>	302/303	1.3	1.40	1	18-20	<b>DCE.91.131.BVC</b>	<b>DCE.91.131.BVM</b>	
	302/303	1.3	1.10	2	20-22-24	<b>DCE.91.131.BVC</b>	<b>DCE.91.131.BVM</b>	
	304/305	0.9	1.10	1	20-22-24	<b>DCE.91.091.BVC</b>	<b>DCE.91.091.BVM</b>	
	304/305	0.9	0.80	2	22-24-26	<b>DCE.91.091.BVC</b>	<b>DCE.91.091.BVM</b>	
	306/307/308	0.7	0.80	1	22-24-26	<b>DCE.91.071.BVC</b>	<b>DCE.91.071.BVM</b>	
	306/307/308	0.7	0.45	2	28-30-32	<b>DCE.91.071.BVC</b>	<b>DCE.91.071.BVM</b>	
	310/314/316	0.5	0.45	1	28-30-32	<b>DCE.91.051.BVC</b>	<b>DCE.91.051.BVM</b>	
<b>2T</b>	304/305/306/307	1.3	1.40	1	18-20	<b>DCE.91.132.BVC</b>	<b>DCE.91.132.BVM</b>	
	304/305/306/307	1.3	1.10	2	20-22-24	<b>DCE.91.132.BVC</b>	<b>DCE.91.132.BVM</b>	
	304/305/306/307	1.3	0.80	2	22-24-26	<b>DCE.91.132.CVC</b>	<b>DCE.91.132.CVM</b>	
	308/310	0.9	1.10	1	20-22-24	<b>DCE.91.092.BVC</b>	<b>DCE.91.092.BVM</b>	
	308/310	0.9	0.80	2	22-24-26	<b>DCE.91.092.BVC</b>	<b>DCE.91.092.BVM</b>	
	308/310	0.9	0.45	2	28-30-32	<b>DCE.91.092.AVC</b>	<b>DCE.91.092.AVM</b>	
	312/314/316/318/319	0.7	0.80	1	22-24-26	<b>DCE.91.072.BVC</b>	<b>DCE.91.072.BVM</b>	
	312/314/316/318/319	0.7	0.45	2	28-30-32	<b>DCE.91.072.BVC</b>	<b>DCE.91.072.BVM</b>	
	<b>3T</b>	308/309/310	1.3	1.40	1	18-20	<b>DCE.91.133.BVC</b>	<b>DCE.91.133.BVM</b>
		308/309/310	1.3	1.10	2	20-22-24	<b>DCE.91.133.BVC</b>	<b>DCE.91.133.BVM</b>
312/314/316/318		0.9	1.10	1	20-22-24	<b>DCE.91.093.BVC</b>	<b>DCE.91.093.BVM</b>	
312/314/316/318		0.9	0.80	2	22-24-2	<b>DCE.91.093.BVC</b>	<b>DCE.91.093.BVM</b>	
320/322/324/326/330		0.7	0.80	1	22-24-26	<b>DCE.91.073.BVC</b>	<b>DCE.91.073.BVM</b>	
320/322/324/326/330		0.7	0.45	2	28-30-32	<b>DCE.91.073.BVC</b>	<b>DCE.91.073.BVM</b>	

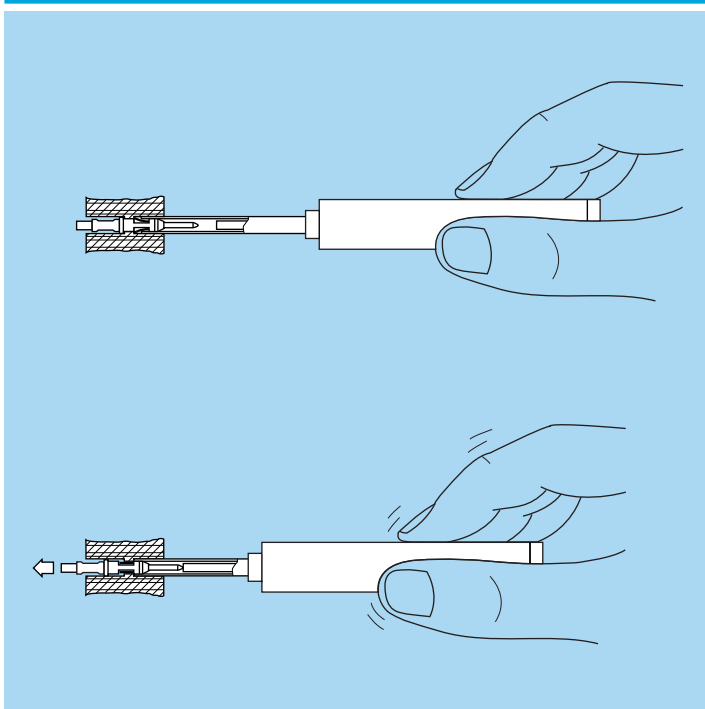
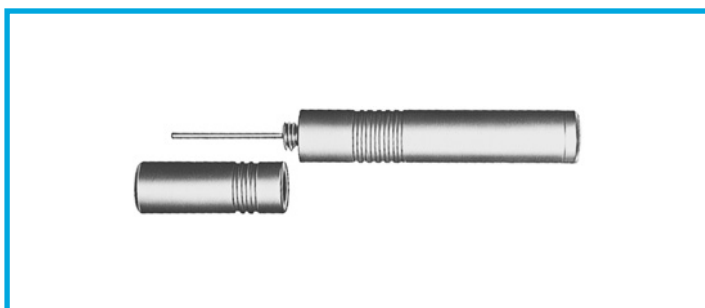
## DCE Turret for crimp contacts 1.6-2.0-3.0 and 4.0 mm diameter



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

	Types	ø (mm)		L <sub>Ø</sub>	Conductor AWG	Positioners part number
		A	C			
<b>2T</b>	302	2.0	2.4	1	12-14-16	<b>DCE.91.202.BVCM</b>
	302	2.0	1.9	2	14-16-18	<b>DCE.91.202.BVCM</b>
	303	1.6	1.9	1	14-16-18	<b>DCE.91.162.BVCM</b>
	303	1.6	1.4	2	18-20-22	<b>DCE.91.162.BVCM</b>
<b>3T</b>	302	3.0	3.2	1	10-12-14	<b>DCE.91.303.BVCM</b>
	303/304/309	2.0	2.4	1	12-14-16	<b>DCE.91.203.BVCM</b>
	303/304/309	2.0	1.9	2	14-16-18	<b>DCE.91.203.BVCM</b>
	305/306/307	1.6	1.9	1	14-16-18	<b>DCE.91.163.BVCM</b>
	305/306/307	1.6	1.4	2	18-20-22	<b>DCE.91.163.BVCM</b>

## DCF Automatic extraction tools for crimp contacts

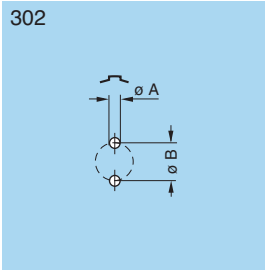


	Types	Contact ø A (mm)	Extractors part number for male and female contacts
<b>TT</b>	302	0.5	<b>DCF.91.050.2LT</b>
	303	0.5	<b>DCF.91.050.2LT</b>
	304	0.5	<b>DCF.91.050.2LT</b>
<b>0T</b>	302/303	0.9	<b>DCF.91.090.2LT</b>
	304/305	0.7	<b>DCF.92.070.3LT</b>
	306/307/309	0.5	<b>DCF.91.050.2LT</b>
<b>1T</b>	302/303	1.3	<b>DCF.91.131.2LT</b>
	304/305	0.9	<b>DCF.91.090.2LT</b>
	306/307/308	0.7	<b>DCF.91.070.2LT</b>
	310/314/316	0.5	<b>DCF.91.050.2LT</b>
<b>2T</b>	302	2.0	<b>DCC.91.202.5LA<sup>1)</sup></b>
	303	1.6	<b>DCF.91.162.2LT</b>
	304/305/306/307	1.3	<b>DCF.91.131.2LT</b>
	308/310	0.9	<b>DCF.91.090.2LT</b>
	312/314/316/318/319	0.7	<b>DCF.91.070.2LT</b>
<b>3T</b>	302	3.0	<b>DCF.91.303.5LT</b>
	303/304/309	2.0	<b>DCC.91.202.5LA<sup>1)</sup></b>
	305/306/307	1.6	<b>DCF.91.163.5LT</b>
	308/309/310	1.3	<b>DCF.91.133.5LT</b>
	312/314/316/318	0.9	<b>DCF.91.093.5LT</b>
	320/322/324/326/330	0.7	<b>DCF.91.073.5LT</b>

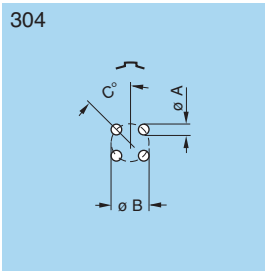
**Note:** <sup>1)</sup> this model is thumb-operated.

# PCB drilling pattern

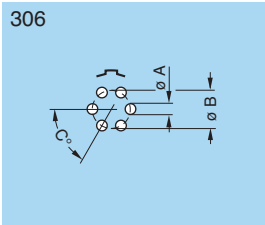
## Fixed socket with straight print contact



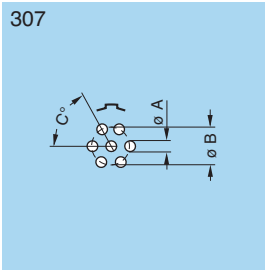
Series	Dimensions	
	A	B
0T	0.8	2.2
1T	0.8	2.8
2T	0.8	4.4



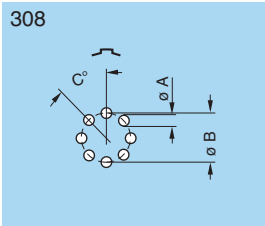
Series	Dimensions		
	A	B	C
0T	0.6	2.5	45°
1T	0.8	3.1	45°
2T	0.8	5.0	45°
3T	0.8	6.2	45°



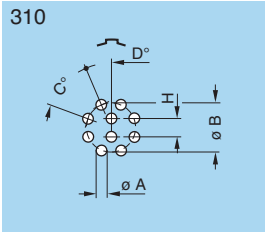
Series	Dimensions		
	A	B	C
0T	0.6	3.0	60°
1T	0.8	3.7	60°



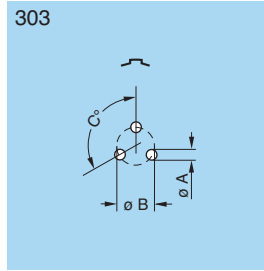
Series	Dimensions		
	A	B	C
0T	0.6	3.00	60°
1T	0.8	3.70	60°
2T	0.8	5.80	60°
3T	0.8	7.08	60°



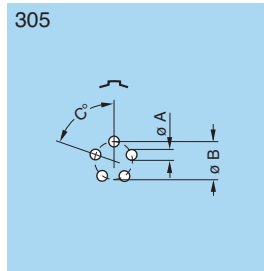
Series	Dimensions		
	A	B	C
2T	0.8	6.4	45°
3T	0.8	7.5	45°



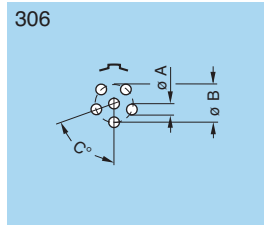
Series	Dimensions				
	A	B	C	D	H
1T	0.6	3.95	45°	22°30'	1.40
2T	0.8	6.30	45°	22°30'	2.15
3T	0.8	7.90	45°	22°30'	2.80



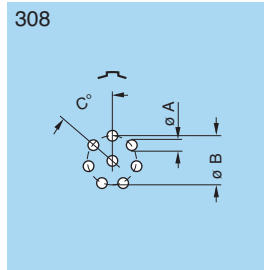
Series	Dimensions		
	A	B	C
0T	0.8	2.3	120°
1T	0.8	3.0	120°
2T	0.8	4.6	120°
3T	0.8	5.6	120°



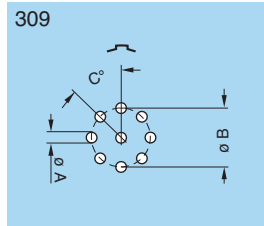
Series	Dimensions		
	A	B	C
0T	0.6	2.8	72°
1T	0.8	3.4	72°
2T	0.8	5.2	72°
3T	0.8	6.7	72°



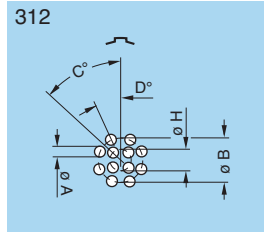
Series	Dimensions		
	A	B	C
2T	0.8	5.6	72°
3T	0.8	7.1	72°



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



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

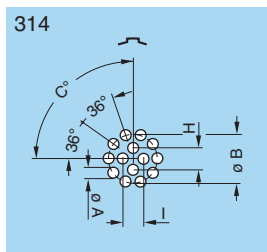


Series	Dimensions				
	A	B	C	D	H
2T	0.8	6.50	45°	22°30'	2.80
3T	0.8	8.20	45°	22°30'	3.40

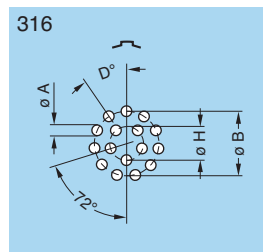
Note: all views are from the side of the socket.

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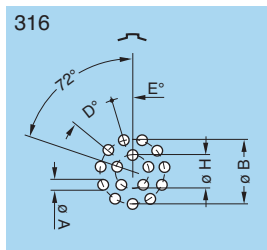




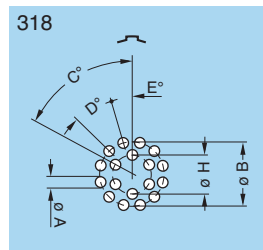
Series	Dimensions				
	A	B	C	H	I
<b>1T</b>	0.6	4.4	90°	1.90	1.80
<b>2T</b>	0.8	6.5	90°	2.65	2.65
<b>3T</b>	0.8	8.2	90°	3.40	3.40



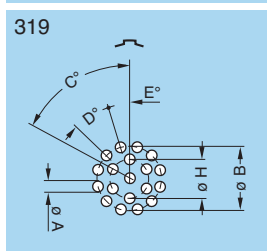
Series	Dimensions			
	A	B	D	H
<b>1T</b>	0.6	4.4	32°44'	2.0



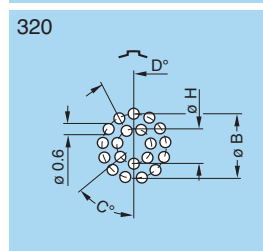
Series	Dimensions				
	A	B	D	E	H
<b>2T</b>	0.8	6.6	32°44'	16°22'	3.10
<b>3T</b>	0.8	8.4	32°44'	16°22'	3.86



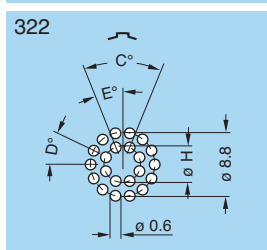
Series	Dimensions					
	A	B	C	D	E	H
<b>2T</b>	0.8	6.7	60°	30°	15°	3.50
<b>3T</b>	0.8	8.4	60°	30°	15°	4.34



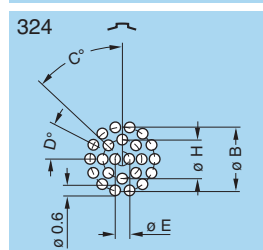
Series	Dimensions					
	A	B	C	D	E	H
<b>2T</b>	0.8	6.7	60°	30°	15°	3.5



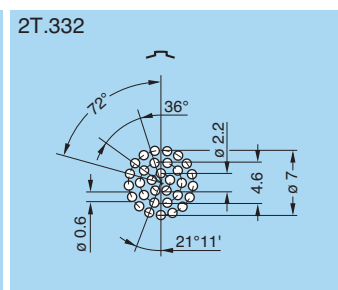
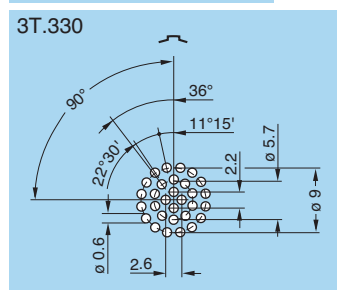
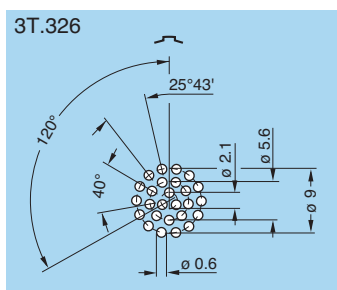
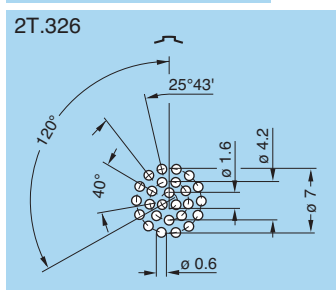
Series	Dimensions			
	B	C	D	H
<b>3T</b>	8.62	51°26'	27°42'	4.78



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



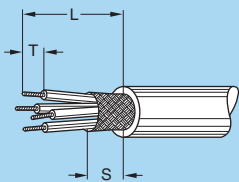
Series	Dimensions				
	B	C	D	E	H
<b>3T</b>	8.8	45°	25°43'	1.8	5.30



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

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## Cable assembly



	Reference	ø contact (mm)	Cable stripping lengths (mm)					
			Solder			Crimp		
			L	S	T	L	S	T
<b>TT</b>	<b>302</b>	0.5	8.0	4	2.5	11.0	4	3.0
	<b>303</b>	0.5	8.0	4	2.5	11.0	4	3.0
	<b>304</b>	0.5	8.0	4	2.5	11.0	4	3.0
<b>0T</b>	<b>302/303</b>	0.9	9.0	5	4.0	9.0	5	4.0
	<b>304/305</b>	0.7	8.0	5	3.5	9.0	5	4.0
	<b>306/307/309</b>	0.5	7.0	5	2.5			
	<b>312</b>	0.35	7.0	5	2.5			
<b>1T</b>	<b>302/303</b>	1.3	10.5	7	3.5	14.5	7	4.0
	<b>304/305</b>	0.9	10.5	7	3.0	14.5	7	4.0
	<b>306/307/308</b>	0.7	10.5	7	3.0	14.5	7	4.0
	<b>310/314/316</b>	0.5	13.0	7	2.5			
<b>2T</b>	<b>302</b>	2.0	16.5	8	4.0	19.5	8	5.5
	<b>303</b>	1.6	16.5	8	3.5	19.5	8	5.5
	<b>304/305/306/307</b>	1.3	15.5	8	3.5	17.5	8	4.0
	<b>308/310</b>	0.9	14.5	8	3.0	17.5	8	4.0
	<b>312/314/316/318/319</b>	0.7	14.5	8	3.0	17.5	8	4.0
	<b>326/332</b>	0.5	14.5	8	2.5			
<b>3T</b>	<b>302</b>	3.0	19.0	10	4.5	23.0	10	5.5
	<b>303/304</b>	2.0	18.0	10	4.0	22.0	10	5.5
	<b>305/306/307</b>	1.6	18.0	10	3.5	22.0	10	5.5
	<b>308/310</b>	1.3	17.0	10	3.5	20.0	10	4.0
	<b>309</b>	1.3 2.0	17.0	10	3.5 4.0	20.0	10	4.0 5.5
	<b>312/314/316/318</b>	0.9	16.0	10	3.0	20.0	10	4.0
	<b>320/322/324/326/330</b>	0.7	16.0	10	3.0	20.0	10	4.0

## 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.**

### 6. PRODUCT IMPROVEMENTS

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