T SERIES IP 68 PUSH-PULL CONNECTORS

901



). *L=111*

Precision modular connectors to suit your application

Since its creation in Switzerland in 1946 the LEMO Group has been recognized as a global leader of circular Push-Pull connectors and connector solutions. Today LEMO and its affiliated companies, REDEL and COELVER, are active in more than 80 countries with the help of over 40 subsidiaries and distributors.

Over 90000 connectors

The modular design of the LEMO range provides over 90000 connectors from miniature ø 3 mm to ø 50 mm, capable of handling cable diameters up to 30 mm and for up to 114 contacts. This vast portfolio enables you to select the ideal connector configuration to suit almost any specific requirement in most markets, including medical devices, test and measurement instruments, machinery, audio video broadcast, telecommunications and military.

LEMO's Push-Pull Self-Latching Connection System

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



UL Recognition 🔊

LEMO connectors are recognized by the Underwriters Laboratories (UL). The approval of the complete system (LEMO connector, cable and your equipment) will be easier because LEMO connectors are recognized.

CE marking $C \in$

CE marking $\zeta \in$ means that the appliance or equipment bearing it complies with the protection requirements of one or several European safety directives. CE marking $\zeta \in$ applies to complete products or equipment, but not to electromechanical components, such as connectors.

RoHS

LEMO connector specifications conforms the requirements of the RoHS directive (2011/65/EU) of the European Parliament and the latest amendments. This directive specifies the restrictions of the use of hazardous substances in electrical and electronic equipment marketed in Europe.

Product safety notice & disclaimers

Please read and follow all instructions specified on the last page or on our <u>website</u> carefully and consult all relevent national and international safety regulations for your application. Improper handling, cable assembly, or wrong use of connectors can result in hazardous situations.

LEMO products and services are provided "as is." LEMO makes no warranties or representations with regard to LEMO product & services or use of them, express, implied or statutory, including for accuracy, completeness, or security.

In no event shall LEMO be liable for any direct, indirect, punitive, incidental, special consequential damages, to property or life, whatsoever arising out of or connected with the use or misuse of LEMO's products.



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 systemMechanical 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



Straight plug **Fixed socket** 1 outer shell 4 2 6 3 7 5 6 1 2 5 4 3 1 6 7 8 9 10 2 latch sleeve 1 outer shell 3 inner shell 2 earthing crown 4 insulator 3 hexagonal nut 5 male contact 4 insulator 6 split insert carrier 5 female contact 7 earthing cone 6 o-ring 8 gasket 7 locking washer 9 collet 10 collet nut



Part Numbering System



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.



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.



Mechanical latching characteristics

Keyed watertight series

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

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

1N = 0.102 kg.

- F_v: average latching force.
- F_d: average unmating force with axial pull on the outer shell.
- Fa: average pull force with axial pull on the collet nut



Technical Characteristics

Contacts

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

Mechanical and Climatical

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

Electrical

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

Chrome-plated housing models

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

Material and treatments

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

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

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

³⁾ average value.
⁴⁾ depending of the size.

⁵⁾ for chrome plated product («C» material code).

FGG Straight plug, cable collet



Refe	rence		Dime	Cable ø				
Model	Series	А	L	М	M S1		min.	max.
FGG	TT	7.0	33.2	25.2	5.5	5	2.4	3.0
FGG	0Т	9.5	39.0	29.0	7.5	7	1.0	4.5
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	ЗТ	18.8	64.0	49.0	16.0	14	2.6	10.5

FGG Straight plug, cable collet and oversize cable collet ¹⁾



Refe	rence		Dimensions (mm)						Cable ø	
Model	Series	А	A B L M S1 S2 S3				min.	max.		
FGG	ОТ	9.5	10.9	50.7	40.9	8.5	10	9	4.6	6.5
FGG	1T	12.0	13.9	60.2	49.1	11.0	13	12	6.6	8.5
FGG	2T	15.0	16.5	69.1	57.0	14.0	15	14	8.6	10.5
FGG	3T	18.8	23.0	87.7	72.7	16.0	20	20	10.6	15.0

Note: ¹⁾ correspond to K type of collet, the fitting of oversize collets onto this model allows them to be fitted to the cables that can be accommodated by the next housing size up (see page 13).



FGG Straight plug, cable collet and nut for fitting a bend relief ¹⁾



Refe	rence	Dimensions (mm)					Cable ø	
Model	Series	А	L	Μ	S1	S2	min.	max.
FGG	TT	7.0	32.7	24.7	5.5	6	2.4	3.0
FGG	0Т	9.5	38.0	28.0	7.5	7	1.0	4.5
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	ЗТ	18.8	62.0	47.0	16.0	15	2.6	10.5

Note: ¹) to order, add a «Z» at the end of the reference. The bend relief must be ordered separately (see page 19).

FFG Straight plug, non latching, cable collet



Refe	rence	Dimensions (mm)					Cable ø		
Model	Series	А	L	М	S1	S2	min.	max.	
FFG	TT	7.0	33.2	25.2	5.5	5	2.4	3.0	
FFG	0Т	9.5	39.0	29.0	8.0	7	1.0	4.5	
FFG	1T	12.0	46.0	35.0	10.0	9	1.3	6.5	
FFG	2T	15.0	55.0	43.0	13.0	12	1.3	8.5	
FFG	ЗТ	18.8	64.0	49.0	16.0	14	2.6	10.5	

FSG Adjustable right angle plug



Refe	rence		Dimensions (mm)					Cable ø	
Model	Series	А	н	L	М	S1	S2	min.	max.
FSG	TT	8	20.0	28.5	20.5	5	7.5	2.4	3.0
FSG	0Т	10	23.0	36.0	26.0	7	9.5	1.0	4.5
FSG	1T	13	30.0	43.5	32.5	9	12.0	1.3	6.5
FSG	2T	17	37.5	54.0	42.0	12	16.0	1.3	8.5



PHG Free socket, cable collet



Refe	rence	Di	mensio	Cable ø			
Model	Series	А	A L S1 S2		S2	min.	max.
PHG	TT	7.0	32.0	5.5	5	2.4	3.0
PHG	0Т	9.5	38.0	8.0	7	1.0	4.5
PHG	1T	12.0	43.5	10.0	9	1.3	6.5
PHG	2T	15.0	52.0	13.0	12	1.3	8.5
PHG	ЗТ	18.8	61.5	16.0	14	2.6	10.5

PHG Free socket, cable collet and oversize cable collet ¹⁾



Refe	rence		Dimensions (mm)					Cable ø		
Model	Series	А	В	L	S1	S2	S3	min.	max.	
PHG	0Т	9.5	10.9	49.7	8	10	9	4.6	6.5	
PHG	1T	12.0	13.9	58.2	10	13	12	6.6	8.5	
PHG	2T	15.0	16.5	66.6	13	15	14	8.6	10.5	
PHG	3T	18.8	23.0	85.5	16	20	20	10.6	15.0	

Note: ¹⁾ correspond to K type of collet, the fitting of oversize collets onto this model allows them to be fitted to the cables that can be accommodated by the next housing size up (see page 13).

PHG Free socket, cable collet and nut for fitting a bend relief ¹)



Refe	rence	Di	mensio	Cable ø			
Model	Series	А	L	S1	S2	min.	max.
PHG	TT	7.0	31.5	5.5	6	2.4	3.0
PHG	0Т	9.5	37.0	8.0	7	1.0	4.5
PHG	1T	12.0	42.5	10.0	9	1.3	6.5
PHG	2T	15.0	51.0	13.0	12	1.3	8.5
PHG	ЗТ	18.8	60.0	16.0	15	2.6	10.5

Note: $^{1)}$ to order, add a ${\rm \ll Z}{\rm \gg}$ at the end of the reference. The bend relief must be ordered separately (see page 19).



EGG Fixed socket, nut fixing



Refe	rence			Dir	Dimensions (mm)					
Model	Series	А	В	е	Е	L	М	N ¹⁾	S1	S2
EGG	TT	10.0	10.2	M7x0.5	5.5	16.0	1.2	13.5	6.3	9
EGG	0Т	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	ЗТ	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)



Refe	rence	Dimensions (mm)									
Model	Series	А	В	е	Е	L	N ¹⁾	Ρ	S1		
EEG	TT	10.0	10.0	M7x0.5	4.5	16.0	13.5	7	6.3		
EEG	0Т	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.

В

6.4

8.3

10.6

13.6

16.6

Panel cut-out

С

7.1

9.1

12.1

15.1

18.1

I.

12.5

14.5

18.5

22.5

27.0

Mounting nut torque (Nm)

Plastic shell

0.4

0.4 0.7

0.8

1.0

Metal shell

1.0

2.5

4.5

6.0

9.0

Reference

Model

Eee

Eee

Eee

Eee

Eee

Series

TΤ

0Т

1T

2T

3T

Panel cut-out



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



Refe	rence			Dime	ns (mm)					
Model	Series	А	В	е	Е	L	М	Ν	S1	S2
L●G	ОТ	19	18.2	M13x0.75	4.0	18.5	5	16.0	11.5	16
LeG	1T	21	19.2	M15x1.00	5.8	21.0	5	18.5	13.5	17
LeG	2T	25	27.0	M20x1.00	6.5	24.1	5	21.5	18.5	24

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





Watertight or vacuumtight models

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

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

		L maxi	Refe	rence			Dir	nensi	ons (r	nm)			
	1		Model	Series	А	В	е	Е	L	М	N ¹⁾	S1	S2
			HGG	TT	10.0	10.2	M7x0.5	5.5	18.0	1.2	15.0	6.3	9
	A		HGG	ОТ	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
l			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)



Refe	rence		Dimensions (mm)									
Model	Series	А	В	е	Е	L	Ν	Ρ	S1			
HEG	TT	10.0	10.0	M7x0.5	4.5	18.0	15.0	7	6.3			
HEG	0Т	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)



Refe	rence		Dimensions (mm)									
Model	Series	А	В	е	Е	L	Ν	Ρ	S1			
HMG	TT	10.0	10.0	M7x0.5	4.5	18.0	15.0	7	6.3			
HMG	0Т	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



Refe	rence	Par	nel cut	-out	Mounting nut torque (Nm)			
Model	Series	В	С	L	Metal shell	Plastic shell		
Hee	TT	6.4	7.1	12.5	1.0	0.4		
Hee	0Т	8.3	9.1	14.5	2.5	0.4		
Hee	1T	10.6	12.1	18.5	4.5	0.7		
Hee	2T	13.6	15.1	22.5	6.0	0.8		



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



EGG Fixed socket, nut fixing, POM outer shell



Refe	rence	Di	mensio	m)	Cable ø		
Model	Series	А	L	М	S2	min.	max.
FGG	ОТ	9.7	38.5	28.5	8	1.0	4.5
FGG	1T	13.0	45.0	34.0	10	1.3	6.5

Refe	rence		Dimensions (mm)							
Model	Series	А	A B e E L M N ¹⁾ S1						S1	S2
EGG	ОТ	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



Refe	rence	Panel cut-out					
Model	Series	В	С	L			
Eee	ОТ	8.3	9.1	14.5			
Eee	Eee 1T		12.1	18.5			





Alignment Key



Note: 1) for 2T and 3T series.

Insert configurations

Multipole

	Solder o	contacts					Cor ty	ntact pe			AWG		Sol	der tact			
											Cri	mp	s)	s)			
	Crimp c	ontacts	Reference	Series	Contact ø (mm)	Solder	Crimp	Print (straight)	Print (elbow)	Solder (max.)	min.	max.	Test voltage (kV rms) Contact-contact	Test voltage (kV rms) Contact-shell	Rated current (A)		
2				TT	0.5	•	•	•	•	30	32	28	1.00	0.95	3.5		
2				0T	0.9	•	•	•	•	20	32	20	1.00	1.05	10.0		
			302	1T	1.3	•	•	•	•	20	26	18	1.50	1.35	15.0		
				2T	2.0	•	•	•	•	16	18	12	2.10	1.75	25.0		
				ЗT	3.0	•	•	•	_	12	14	10	2.10	1.55	35.0		
3				TT	0.5	•	•	•	•	30	32	28	0.80	0.95	3.0		
		0		0T	0.9	•	•	•	•	20	32	20	1.20	0.90	8.0		
		(eg)	303	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	•	•	•	0	16	18	12	1.90	1.50	25.0		
4				TT	0.5	•	•	•	•	30	32	28	0.80	0.65	2.0		
		(DO)		0T	0.7	•	•	•	•	22	32	22	0.85	0.70	7.0		
			304	1T	0.9	•	•	•	•	22	32	20	1.35	1.45	10.0		
				2T	1.3	•	•		•	20	26	18	1.85	1.85	15.0		
				3Т	2.0	•			•	16	18	12	1.45	1.25	19.0		
5																	
			305	TT	0.35	•	-	•	-	30	-	-	0.70	1.00	1.7		
				0T	0.7					22	32	22	1.00	0.70	6.5		
5				1T	0.9	•	•	•	•	22	32	20	1.25	1.15	9.0		
		\mathcal{C}	305	2T	1.3	•			•	20	26	18	1.75	1.60	14.0		
				ЗT	1.6	•	•	•	•	18	22	14	1.90	1.25	19.0		
E																	
6		00		0T	0.5	•	_1)	•	•	28	32	28	0.85	0.65	2.5		
		30	306	1T	0.7	•	•	•	•	22	32	22	1.05	1.20	7.0		
	Note: ¹⁾ available only for connectors fitted with male contacts							 First 	t choic	e alterr	native	⊖ Sp	ecial or	der alte	rnative		





Multipole

							typ	be					con	tact	
1											Cri	mp	/ rms)	/ rms)	(۲
	Crimp c	ontacts	Reference	Series	Contact ø (mm)	Solder	Crimp	Print (straight)	Print (elbow)	Solder (max.)	min.	max.	Test voltage (kV rms) Contact-contact	Test voltage (kV rms) Contact-shell	Rated current (A)
6				TT	0.35	•	-	-	-	30	-	-	0.60	0.75	1.5
			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
7				0T	0.5	•	<u>_</u> 1)	•	•	28	32	28	0.80	0.70	2.5
			307	1T 2T	0.7 1.3	•	•		•	22 20	32 26	22 18	0.95 1.75	1.05 1.60	7.0 11.0
				3T	1.6	•	•	•		18	20	14	1.70	1.25	15.0
8		663	308	1T	0.7	•	•	•	•	22	32	22	0.95	1.15	5.0
8				2T	0.9	•				22	32	20	1.50	1.25	10.0
			308	21 3T	1.3	•			•	22	32 26	18	1.65	1.15	13.0
				01	1.0					20	20	10	1.00		10.0
9				0Т	0.5	•	<u>_</u> 1)	•	•	28	32	28	0.60	0.50	2.0
			309	ЗT	8x1.3 1x2.0	•	•	•	-	20 16	26 18	18 12	1.35	1.05	6.0 15.0
				1T			1)						0.00	1 50	
10		6993	310	2T	0.5 0.9	•	• • •			28 22	32 32	28 20	0.90	1.50 1.30	2.5 8.0
		639	510	3T	1.3	•	•	•	•	20	26	18	1.25	0.90	12.0
10															
12		633	312	0T	0.35	•	-	•	-	30	-	-	0.80	1.00	1.5
12		200		2T	0.7	•	•	•	•	22	32	22	1.25	1.35	7.0
		6633	312	3T	0.9	•	•	•	•	22	32	20	1.45	1.00	9.0
14		6993		1T	0.5	•	•1)	•		28	32	28	0.80	1.20	2.0
		6000	314	2T 2T	0.7	•	•	•	•	22	32	22	1.15	1.35	6.5
				ЗТ	0.9	•	•	•	•	22	32	20	1.20	1.20	9.0
16		6633	316	1T	0.5	•	1)	•	0	28	32	28	0.80	1.25	1.5
		KCOCC	5.0												

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Multipole

	Solder	contacts					Con ty	itact pe			AWG		Sol con	der tact	
											Cri	mp	rms)	rms)	(
	Crimp o	contacts	Reference	Series	Contact ø (mm)	Solder	Crimp	Print (straight)	Print (elbow)	Solder (max.)	min.	max.	Test voltage (kV rms) Contact-contact	Test voltage (kV rms) Contact-shell	Rated current (A)
16		6990		2T	0.7	•	•	•	•	22	32	22	0.95	1.25	6.0
			316	ЗT	0.9	•	•	•	•	22	32	20	1.20	0.85	8.0
18		6000		2T	0.7	•				22	32	22	0.85	1.20	5.5
			318	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
		0000													
20		00000	320	ЗT	0.7	•				22	32	22	1.00	0.90	6.0
		60000	320	51	0.7					22	52	22	1.00	0.30	0.0
22		6883													
			322	ЗТ	0.7	•	•	•	0	22	32	22	1.00	0.90	5.5
24		1900													
24			324	ЗT	0.7	•	•	•	•	22	32	22	0.95	0.80	4.0
26			326	2T	0.5	•	-	•	•	28	-	-	0.95	1.30	2.0
		Kood A		3T	0.7	•	•		•	22	32	22	0.95	0.70	4.0
30		666333	000	от	0.7					00	20	00	0.90	0.70	25
		000000	330	3T	0.7	•			•	22	32	22	0.80	0.70	3.5
32		00000													
			332	2T	0.5	•	-	•	•	28	-	-	0.80	1.20	1.5
32			332	ЗT	0.7	•	0	•	•	22	32	22	0.75	0.70	3.0
	NO.														

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

• First choice alternative O Special order alternative



D



Collets

H

0

A

K type

oversize cable collet

C type

00

	Turne	Cable	Nete	
	Туре	min.	max.	Note
	C27	2.4		
• •	C31	2.7		
OT	C10	1.0	1.2	1)
0Т	C15	1.3	1.5	1)
	C20	1.6	2.0	1)
	C25	2.1	2.5	
	C30	2.6	3.0	
	C35	3.1	3.5	
	C40	3.6	4.0	
	C45	4.1	4.5	
	K50	4.6	5.0	2)
	K55	5.1	5.5	2)
	K60	5.6	6.0	2)
	K65	6.1	6.5	2)
1T	C15	1.3	1.5	
	C20	1.6	2.0	
	C25	2.1	2.5	
	C30	2.6	3.0	
	C35	3.1	3.5	
	C40	3.6	4.0	
	C45	4.1	4.5	
	C50	4.6	5.0	
	C55	5.1	5.5	
	C60	5.6	6.0	
	C65	6.1	6.5	
	K70	6.6	7.0	3)
	K75	7.1	7.5	3)
	K80	7.6	8.0	3)
	K85	8.1	8.5	3)

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

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

00000

Note: all dimensions are in millimetres.
¹⁾ the inner diameter of the smallest bend relief available is 2.5 mm (in TPU) / 1.7 mm (in silicone).
²⁾ for 1B bend relief.
³⁾ for 2B bend relief.
⁴⁾ for 3B bend relief.
⁵⁾ the inner diameter of the largest bend relief available is 14.5 mm.

Spare parts for crimp contacts

	_	Insulator p	part number	ø (I	nm)		Cond	AWG	Contact pa	art number
	Types	Male contact	Female contact	А	С	Fig.	min.	max.	Male	Female
тт	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
0T	302/303	FGG.0B.30e.YL	EGG.0B.40•.YL	0.9	1.10 0.80 0.45	1 2 2	24 26 32	20 22 28	FGG.0B.560.ZZC FGG.0B.561.ZZC FGG.0B.562.ZZC	EGG.0B.660.ZZM EGG.0B.661.ZZM EGG.0B.662.ZZM
	304/305	FGG.0B.30e.YL	EGG.0B.40•.YL	0.7	0.80 0.45	1 2	26 32	22 28	FGG.0B.555.ZZC FGG.0B.556.ZZC	EGG.0B.655.ZZM 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.30e.YL	EGG.1B.40e.YL	1.3	1.40 1.10 0.80	1 2 2	20 24 26	18 20 22	FGG.1B.565.ZZC FGG.1B.566.ZZC FGG.1B.567.ZZC	EGG.1B.665.ZZM EGG.1B.666.ZZM EGG.1B.667.ZZM
	304/305	FGG.1B.30e.YL	EGG.1B.40e.YL	0.9	1.10 0.80 0.45	1 2 2	24 26 32	20 22 28	FGG.1B.560.ZZC FGG.1B.561.ZZC FGG.1B.562.ZZC	EGG.1B.660.ZZM EGG.1B.661.ZZM EGG.1B.662.ZZM
	306/307/308	FGG.1B.30e.YL	EGG.1B.40•.YL	0.7	0.80 0.45	1 2	26 32	22 28	FGG.1B.555.ZZC FGG.1B.556.ZZC	EGG.1B.655.ZZM EGG.1B.656.ZZM
	310/314/316	FGG.1B.3YL	-	0.5	0.45	1	32	28	FGG.1B.554.ZZC	-
2 T	302	FGG.2B.302.YL	EGG.2B.402.YL	2.0	2.40 1.90	1 2	16 18	12 14	FGG.2B.575.ZZC FGG.2B.576.ZZC	EGG.2B.675.ZZM EGG.2B.676.ZZM
	303	FGG.2B.303.YL	EGG.2B.403.YL	1.6	1.90 1.40	1 2	18 22	14 18	FGG.2B.570.ZZC FGG.2B.571.ZZC	EGG.2B.670.ZZM EGG.2B.671.ZZM
	304/305 306/307	FGG.2B.30•.YL	EGG.2B.40•.YL	1.3	1.40 1.10 0.80	1 2 2	20 24 26	18 20 22	FGG.2B.565.ZZC FGG.2B.566.ZZC FGG.2B.567.ZZC	EGG.2B.665.ZZM EGG.2B.666.ZZM EGG.2B.667.ZZM
	308/310	FGG.2B.3••.YL	EGG.2B.4YL	0.9	1.10 0.80 0.45	1 2 2	24 26 32	20 22 28	FGG.2B.560.ZZC FGG.2B.561.ZZC FGG.2B.562.ZZC	EGG.2B.660.ZZM EGG.2B.661.ZZM EGG.2B.662.ZZM
	312/314/316 318/319	FGG.2B.3YL	EGG.2B.4YL	0.7	0.80 0.45	1 2	26 32	22 28	FGG.2B.555.ZZC FGG.2B.556.ZZC	EGG.2B.655.ZZM 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 1.90	1 2	16 18	12 14	FGG.3B.575.ZZC FGG.3B.576.ZZC	EGG.3B.675.ZZM EGG.3B.676.ZZM
	305/306/307	FGG.3B.30•.YL	EGG.3B.40•.YL	1.6	1.90 1.40	1 2	18 22	14 18	FGG.3B.570.ZZC FGG.3B.571.ZZC	EGG.3B.670.ZZM EGG.3B.671.ZZM
	308/309/310	FGG.3B.3••.YL ¹⁾	EGG.3B.4YL ¹⁾	1.3	1.40 1.10 0.80	1 2 2	20 24 26	18 20 22	FGG.3B.565.ZZC FGG.3B.566.ZZC FGG.3B.567.ZZC	EGG.3B.665.ZZM EGG.3B.666.ZZM EGG.3B.667.ZZM
	312/314 316/318	FGG.3B.3YL	EGG.3B.4YL	0.9	1.10 0.80 0.45	1 2 2	24 26 32	20 22 28	FGG.3B.560.ZZC FGG.3B.561.ZZC FGG.3B.562.ZZC	EGG.3B.660.ZZM EGG.3B.661.ZZM EGG.3B.662.ZZM
	320/322/324 326/330/332	FGG.3B.3YL	EGG.3B.4YL	0.7	0.80 0.45	1 2	26 32	22 28	FGG.3B.555.ZZC FGG.3B.556.ZZC	EGG.3B.655.ZZM EGG.3B.656.ZZM

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

Tools for crimp contacts

		Positioners	Extractors part	
	Types	Male contact	Female contact	number for male/ female contacts
тт	302/303/304	DCE.91.050.0VC	DCE.91.050.0VM	DCC.05.02B.LAG
0T	302/303	DCE.91.090.BVC DCE.91.090.AVC	DCE.91.090.BVM DCE.91.090.AVM	DCC.09.05B.LAG
	304/305	DCE.91.070.BVC	DCE.91.070.BVM	DCC.07.04B.LAG
	306/307/309	DCE.91.050.BVC	DCE.91.050.BVM	DCC.05.02B.LAG
1T	302/303	DCE.91.131.BVC	DCE.91.131.BVM	DCC.13.15B.LAG
	304/305	DCE.91.091.BVC	DCE.91.091.BVM	DCC.09.05B.LAG
	306/307/308	DCE.91.071.BVC	DCE.91.071.BVM	DCC.07.04B.LAG
	310/314/316	DCE.91.051.BVC	DCE.91.051.BVM	DCC.05.02B.LAG
2 T	302	DCE.91.2	202.BVCM	DCC.20.25B.LAG
	303	DCE.91.1	62.BVCM	DCC.16.25B.LAG
	304/305 306/307	DCE.91.132.BVC DCE.91.132.CVC	DCE.91.132.BVM DCE.91.132.CVM	DCC.13.15B.LAG
	308/310	DCE.91.092.BVC	DCE.91.092.BVM	DCC.09.05B.LAG
	312/314/316 318/319	DCE.91.072.BVC	DCE.91.072.BVM	DCC.07.04B.LAG
3T	302	DCE.91.3	03.BVCM	DCC.30.35B.LAG
	303/304/309	DCE.91.2	03.BVCM	DCC.20.25B.LAG
	305/306/307	DCE.91.1	63.BVCM	DCC.16.25B.LAG
	308/309/310	DCE.91.133.BVC	DCE.91.133.BVM	DCC.13.15B.LAG
	312/314 316/318	DCE.91.093.BVC DCE.91.093.BVG	DCE.91.093.BVM DCE.91.093.BVU	DCC.09.05B.LAG
	320/322/324 326/330/332	DCE.91.073.BVC	DCE.91.073.BVM	DCC.07.04B.LAG

FGG-EGG Crimp contacts



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

FGG-EGG Insulators



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

DCE Positioners ø 0.5, 0.7, 0.9, 1.3 mm



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

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



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

DCC Manual extractors



Spare parts

GBA Locking washers



Material: Nickel-plated bronze (3 μm)

GEA Hexagonal nuts



Part number	Corioo	Dime	Dimensions (mm)				
Part number	Series	Α	С	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	ЗT	25.0	18.1	1.4			

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

Dort number	Corioo	Dimensions (mm)							
Part number	Series	Α	В	е	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	ЗТ	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 20 for the tooling.

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

GEC Conical nuts



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

Part number	Series		Dimensions (mm)							
Fait number	Selles	Α	В	е	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	ЗT	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 20 for the tooling.



GEG Notched nuts



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

Part number	Series		Dimensions (mm)						
Fait number	Series	Α	В	е	L	Model			
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 21 for the tooling.

Accessories

BFG Blanking caps for plugs



Part number	Dir	mensio	ons (m	Part number	
Fait number	Α	В	L	N ¹⁾	Fait number
BFG.TT.100.CAS	7.0	4.3	9.0	60	BHG.TT.100.CAS
BFG.0T.100.CAS	9.5	5.0	11.0	85	BHG.0T.100.CAS
BFG.1T.100.CAS	12.0	6.3	12.4	85	BHG.1T.100.CAS
BFG.2T.100.CAS	15.0	6.4	13.8	85	BHG.2T.100.CAS
BFG.3T.100.CAS	18.8	6.4	17.6	120	BHG.3T.100.CAS

BRF Blanking caps for free sockets



Dart sugabar		Dime	nsions	Dartnumbar		
Part number	Α	В	L	М	N ¹⁾	Part number
BRF.TT.200.CAZ	7.0	4.3	10.4	2.4	60	BRE.TT.200.CAZ
BRF.0T.200.CAZ	9.5	5.0	13.2	3.2	85	BRE.0T.200.CAZ
BRF.1T.200.CAZ	12.0	6.3	15.1	4.2	85	BRE.1T.200.CAZ
BRF.2T.200.CAZ	15.0	6.4	17.1	5.2	85	BRE.2T.200.CAZ
BRF.3T.200.CAZ	18.8	6.4	21.2	6.4	120	BRE.3T.200.CAZ

BHG Blanking caps for fixed plugs



- õ
- Body material: Chrome-plated brass (Ni 3 μm) Lanyard material: Stainless steel Crimp ferrule material: Nickel-plated brass + polyolefin Õ
- ۲
- Orring material: Silicone Operating temperature: -50°/135°C (Silicone rubber & Polyolefine) Watertightness: IP68 according to IEC 60529 ĕ
- Note: 1) the tolerance on this dimension is ± 5 mm.

BRE Blanking caps for sockets



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

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



GCA Earthing washers



Part number	Series	Dimensions (mm)						
Part number	Series	A	В	L	Ν			
GCA.00.255.LT	TT	9.5	7.1	0.4	18.2			
GCA.0S.255.LT	0Т	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	ЗТ	25.0	18.2	0.5	39.0			

Material: CuSnZn plated brass (2 μm)

Bend relief (TPU)

ТΤ

0T

1T



A bend relief made from thermoplastic polyurethane elas-tomer 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

GRÁ insulating washers.

Use the part numbers shown below to order this accessory separately.

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

	Destauration	Bend	relief	Cab	ole ø
	Part number	А	L	min.	max.
2T	GMA.2B.040.DG	4.0	36	4.0	4.5
21	GMA.2B.045.DG	4.5	36	4.5	5.0
	GMA.2B.050.DG	5.0	36	5.0	5.5
	GMA.2B.060.DG	6.0	36	6.0	6.5
	GMA.2B.070.DG	7.0	36	7.0	7.7
	GMA.2B.080.DG ¹⁾	7.8	36	7.8	8.8
от	GMA.3B.050.DG ¹⁾	4.5	42	4.5	5.2
3 T	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

te: all dimensions are in millimetres.

Ref.	Colour	Ref.	Colour	Ref.	Colour
Α	blue	J	yellow	R	red
В	white	М	brown	S	orange
G	grey	Ν	black	V	green

Note: ¹⁾ Design may differ from other bend relief, model without stripes. The «GMD» are thin bend reliefs (for very flexible cables). The last letter «G» of the part number indicates the grey colour of the bend relief. For ordering a bend relief with another colour, see table above and replace the letter «G» by the letter of the required colour.

Tooling

DCG Spanners for hexagonal nuts



Part number	Series	Dime	nsions	(mm)	Part number of the nut	
Fait number	Selles	В	L	Ν	(page 16)	
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



Corioo	Dime	nsions	(mm)	Part number of the nut	
Series	В	L	Ν	(page 16)	
TT	14	65	50	GEA.00.240.LN	
0T	16	73	52	GEA.0S.240.LN	
1T	20	85	65	GEA.1S.240.LN	
2T	23	100	68	GEA.2S.240.LN	
3T	28	120	73	GEA.3S.240.LN	
	0T 1T 2T	Series B TT 14 0T 16 1T 20 2T 23	Series B L TT 14 65 0T 16 73 1T 20 85 2T 23 100	B L N TT 14 65 50 0T 16 73 52 1T 20 85 65 2T 23 100 68	

Material: blackened steel



Part number	Series	Din	nensio	ons (n	Part number of the nut	
Fanthumber	Selles	Α	В	L	Ν	(page 16)
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	Din	nensio	ons (n	Part number of the nut	
Part number	Series	А	В	L	Ν	(page 17)
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

Part number	Series	Dimensions (mm)					
Part number	Series	L	М	Ν	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

Part number	Corioo	Dimensions (mm)						
Part number	Series	L	М	Ν	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





Dortnumber	Cariaa	Dimensions (mm)		
Part number	Series	L	М	Ν
DCP.TT.FSG.TN	TT-0T-1T-2T	152	2	25

• Material: blackened steel

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Flat spanners for collet nut

DCP



Fait number	Selles	L	М	N		
DCP.99.050.TC	TT	78	2	12.6		
DCP.99.055.TC	TT	78	2	12.6		
DCP.99.060.TC	TT	78	2	12.6		
Material: abroma plated staal						

DCP Set of flat spanners for collet nuts





Crimping tools for electrical contacts

Manual crimping tools



Part n		
contact ø 0.5-0.7 0.9-1.3 (Fig. A)	contact ø 1.6-2.0 (Fig. B)	Supplier
DPC.91.701.V ¹⁾	DPC.91.101.A ²⁾	LEMO
MH860 ¹⁾	AF8 ²⁾	DANIELS
616336 ¹⁾	615708 ²⁾	ASTRO

¹⁾ According to specification MIL-C-22520/7-01.
 ²⁾ According to specification MIL-C-22520/1-01.

Pneumatic crimping tools



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

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

PCB drilling pattern

Fixed socket with straight print contact



304

305

306

308

309



Quita	Dimensions		
Series	А	В	С
TT	0.6	1.6	45°
ОТ	0.6	2.5	45°
1T	0.8	3.1	45°
2T	0.8	5.0	45°
3Т	0.8	6.2	45°

Queries	Dimensions		
Series	А	В	С
ОТ	0.6	2.8	72°
1T	0.8	3.4	72°
2T	0.8	5.2	72°
3Т	0.8	6.7	72°

Quitas	Dimensions		
Series	А	В	С
2T	0.8	5.6	72°
3Т	0.8	7.1	72°

Dimensions		;	
Series	А	В	С
1T	0.8	3.8	51°26'

Ouries	Dimensions		
Series	А	В	С
0Т	0.6	3.2	45°
ЗТ	0.8	7.5	45°

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

ø B

ø B



305



Quiter	Dimensions		
Series	А	В	С
TT	0.5	1.7	72°



	C	Dimensions	;
Series	А	В	С
ОТ	0.6	3.0	60°
1T	0.8	3.7	60°



0 B

> 0 B

ØA

308

310

	Dimensions		
Series	А	В	С
ОТ	0.6	3.00	60°
1T	0.8	3.70	60°
2T	0.8	5.80	60°
3Т	0.8	7.08	60°

Quitas	C	Dimensions	3		
Series	А	В	С		
2T	0.8	6.4	45°		
3Т	0.8	7.5	45°		

Quitas	Dimensions										
Series	А	В	С	D	Н						
1T	0.6	3.95	45°	22°30'	1.40						
2T	0.8	6.30	45°	22°30'	2.15						
ЗТ	0.8	7.90	45°	22°30'	2.80						

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Series

Dimensions

С

Н

D

В

А





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

Metal collet nut tightening torque

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

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



Series

1T

А

0.6

Dimensions

В

4.4

D

32°44'

Н

2.0







Series	Dimensions										
	Α	В	С	D	Е	н					
2T	0.8	6.7	60°	30°	15°	3.50					
3Т	0.8	8.4	60°	30°	15°	4.34					

Series	Dimensions									
	В	Н								
ЗТ	8.62	51°26'	27°42'	4.78						

2T.326





~

2T.332







Cable assembly

Cable stripping lengths

M1 straight plugs and sockets with cable collet, clamping type C (solder or crimp contacts)

M2 straight plugs and sockets with cable collet, clamping type K (solder or crimp contacts)

		۷	Cable stripping lengths (mm)											
	Туре	ø contact (mm)	M1					M2						
	Type		Solder				Crimp		Solder			Crimp		
	000/000/004		L	S	Т	L	S	Т	L	S	Т	L	S	Т
TT	302/303/304	0.5	10.0	4.5	2.5	13.5	4.5	3.0	-	-	-	-	-	-
	305	0.35	10.0	4.5	2.5	-	-	-	-	-	-	-	-	-
	306	0.35	11.0	4.5	2.5	-	-	-	-	-	-	-	-	-
ОТ	302/303	0.9	11.5	6.0	3.0	13.5	6.0	4.0	22.0	7.0	3.0	24.0	7.0	4.0
01	304/305	0.7	11.5	6.0	3.0	13.5	6.0	4.0	22.0	7.0	3.0	24.0	7.0	4.0
	306/307/309 ¹⁾	0.5	10.5	6.0	2.5	14.0	6.0	3.0	21.0	7.0	2.5	24.5	7.0	3.0
	312	0.35	10.5	6.0	2.5	-	-	-	21.0	7.0	2.5	-	-	-
47	302/303	1.3	12.0	8.0	3.5	14.0	8.0	4.0	26.0	8.5	3.5	28.0	8.5	4.0
1T	304/305	0.9	11.5	8.0	3.0	14.0	8.0	4.0	26.0	8.5	3.0	28.5	8.5	4.0
	306/307/308	0.7	11.5	8.0	3.0	14.0	8.0	4.0	26.0	8.5	3.0	28.5	8.5	4.0
	310/314/316	0.5	11.5	8.0	2.5	15.0	8.0	3.0	25.5	8.5	2.5	29.0	8.5	3.0
2T	302	2.0	16.0	9.5	4.0	19.0	9.5	5.5	30.0	9.0	4.0	33.0	9.0	5.5
21	303	1.6	16.0	9.5	3.5	19.0	9.5	5.5	30.0	9.0	3.5	33.0	9.0	5.5
	304/305/306/307	1.3	16.0	9.5	3.5	19.0	9.5	4.0	30.0	9.0	3.5	33.0	9.0	4.0
	308/310	0.9	16.0	9.5	3.0	19.0	9.5	4.0	30.0	9.0	3.0	33.0	9.0	4.0
	312/314/316/318/319	0.7	16.0	9.5	3.0	19.0	9.5	4.0	30.0	9.0	3.0	33.0	9.0	4.0
	326/332	0.5	16.0	9.5	2.5	-	-	-	30.0	9.0	2.5	-	-	-
3Т	302	3.0	20.5	11.0	4.5	23.5	11.0	7.0	40.5	13.0	4.5	43.5	13.0	7.0
31	303/304	2.0	20.5	11.0	4.0	23.5	11.0	5.5	40.5	13.0	4.0	43.5	13.0	5.5
	305/306/307	1.6	20.5	11.0	3.5	23.5	11.0	5.5	40.5	13.0	3.5	43.5	13.0	5.5
	308/310	1.3	20.5	11.0	3.5	23.5	11.0	4.0	40.5	13.0	3.5	43.5	13.0	4.0
	309	1.3 2.0	20.5	11.0	3.5 4.0	23.5	11.0	4.0 5.5	40.5	13.0	3.5 4.0	43.5	13.0	4.0 5.5
	312/314/316/318	0.9	20.5	11.0	3.0	23.5	11.0	4.0	40.5	13.0	3.0	43.5	13.0	4.0
	320/322/324/326/330/332	0.7	20.5	11.0	3.0	23.5	11.0	4.0	40.5	13.0	3.0	43.5	13.0	4.0



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

Terminating of plugs with solder contacts and cable collet



Cable preparation

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

Cable termination

- 2. Slide it into the collet nut ①, the collet ②, the gland ③ and the earthing cone ④.
- 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 ® 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 24).



Note:

Note:

Product safety notice

PLEASE READ AND FOLLOW ALL INSTRUCTIONS CAREFULLY AND CONSULT ALL RELEVENT 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 $C \in$

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

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

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