

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

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Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







P1/P3 FLUIDIC CONTACT WITH VALVE





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.

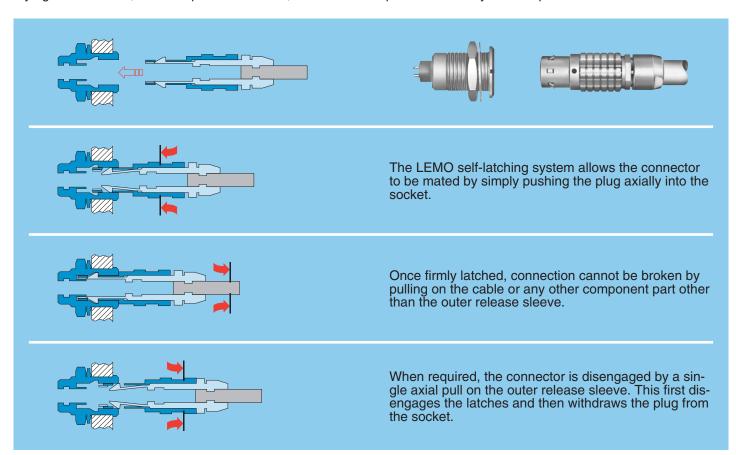
Over 75'000 connectors

The modular design of the LEMO range provides over 75'000 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 **7**

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€

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.

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.



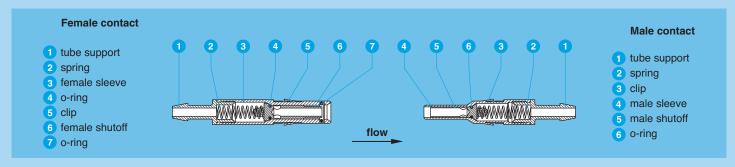
P1/P3 Fluidic contact with valve

The P1 fluidic contact is designed to fit multi fluid connectors or mixed fluid/electrical connectors from 2B to 5B and 2K to 5K series. This new design includes a shut-off valve. It fits into all insert cavities that already accept the LEMO coaxial type «C» of contact. The P3 fluidic contact is designed to fit multi fluid connectors of the 5B and 5K series. Its main features are:

- contacts with shut-off valve
- maximum working pressure 6 bars
- stainless alloy body
- after mounting on tube, the contact is installed in the main insulator and retained with a metallic clip.

The contact is fitted with FPM o-ring, it can be used with liquids or gas.

Part Section Showing Internal Components



Technical Characteristics

Material and Treatment

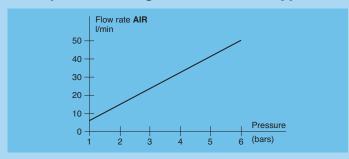
Components	Value
Body	Stainless steel
Valve	Alloy CuNiZn
Spring	Stainless steel
Clips	CuBe
O-ring	FPM

Mechanical and Environmental

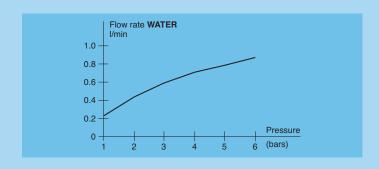
Characteristics	Value	Cont. type	Standard
Mating durability	1000 cycles	P1/P3	IEC 60512-5 test 9a
Temperature range	-20°C, +125°C	P1/P3	
Max. working pressure	6 bars	P1/P3	
Air flow rate at 6 bars	50 l/min	P1	
Water flow rate at 6 bars	0.80 l/min	P1	
Air flow rate at 6 bars	210 l/min	P3	
Water flow rate at 6 bars	4.20 l/min	P3	

Note: flow direction is always from female contact to male contact.

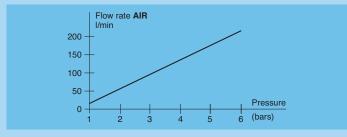
Flow/pressure diagram P1 contact type

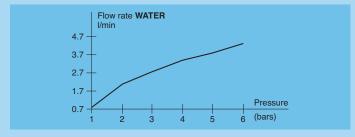


Note: test carried out with a 2 mm inner diameter tube.



Flow/pressure diagram P3 contact type



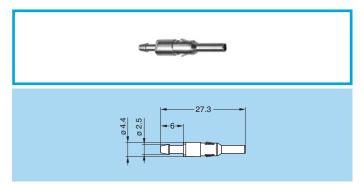




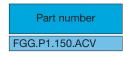


Model - Fluidic Contact Type

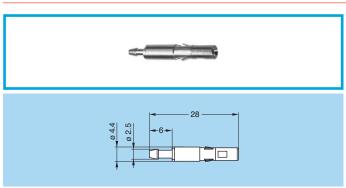
P1 contacts



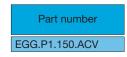
FGG.P1 Male fluidic contact with valve



Note: Connectors are delivered without the P1 contacts.

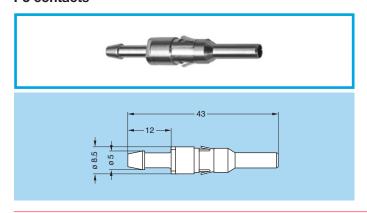


EGG.P1 Female fluidic contact with valve

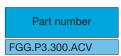


Note: Connectors are delivered without the P1 contacts.

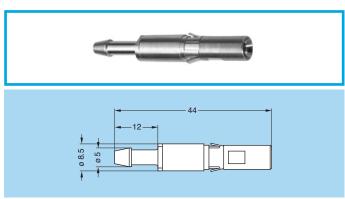
P3 contacts



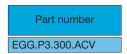
FGG.P3 Male fluidic contact with valve



Note: Connectors are delivered without the P3 contacts.



EGG.P3 Female fluidic contact with valve

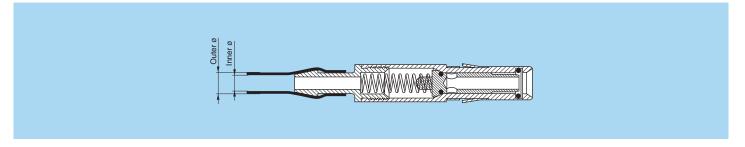


Note: Connectors are delivered without the P3 contacts.



Recommended tubing/hose

Series	Contact	Diamet	er (mm)	Cumpling	Material	Calarin	Madring toppoparture
Series	type	Outer ø	Inner ø	Supplier	iviateriai	Colour	Working temperature
2B, 3B, 2K, 3K		4.0	2.0	Legris 1100P0400	Polyamide (nylon)	White	-20° C to 80° C
2B, 3B, 2K, 3K	P1	4.0	2.0	Legris 1100P0401	Polyamide (nylon)	Black	-20° C to 80° C
2B, 3B, 4B, 5B	FI	3.0	1.8	Legris 1025U030118	Polyurethane	Black	-20° C to 70° C
2K, 3K, 4K, 5K		3.0	1.8	Legris 1025U030118	Polyurethane	Black	-20° C to 70° C
5B, 5K	P3	6.0	4.0	Legris 1100P0601	Polyamide (nylon)	Black	-20° C to 80° C

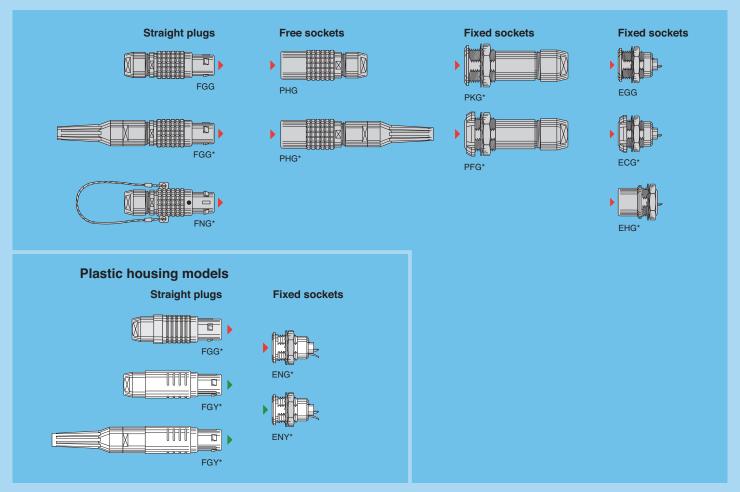




2B-5B Series

The P1 fluidic contact has been designed to work in the 2B to 5B series. The P3 contact has been designed to work in the 5B series. The main features of these series are as follows:

- security of the LEMO Push-Pull self-latching system
- the alignment key (G, A...F, Y and R) ensures excellent repeatability of performance during frequent matings
 the P1 fluid contact allows hybrid configuration in the 2B series and multi fluid up to 10 channels in the 5B series. The possible outer cable diameters range from 4.0 to 25 mm.



Model Description

Fixed socket, with two nuts, key (G) or keys (A...F and R), (back panel mounting) **ECG EGG**

keys (A...F and R), (back panel mounting). Fixed socket, nut fixing, key (G) or keys (A...F and R). Fixed socket, nut fixing, key (G) or keys (A...F and R) with visible shell. Fixed socket with grounding tab, nut fixing, key (G), PEEK outer shell. Fixed socket with grounding tab, nut fixing, keys (Y), PSU or PPSU outer shell. Straight plug, key (G) or keys (A...F). **EHG ENG**

ENY FGG

Straight plug, key (G) or keys (A...F) cable collet and nut for fitting a bend **FGG** relief

FGG

FGY

Straight plug, key (G), cable collet, PEEK outer shell
Straight plug, keys (Y), cable collet and PSU or PPSU outer shell
Straight plug, keys (Y), cable collet and PSU or PPSU outer shell and nut for fitting a bend relief
Straight plug, key (G) or keys
(A...F and R) and cable collet with lanyard release

FNG with lanyard release

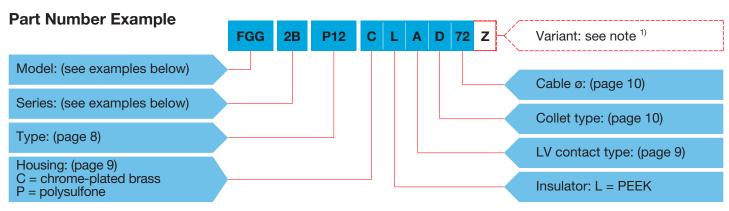
Fixed socket, with two nuts, key (G) or keys (A...F and R) and cable collet (back panel mounting) Free socket, key (G) or keys (A...F and R) and cable collet

PHG Free socket, key (G) or keys (A...F) and cable collet and nut for fitting a bend relief
PKG Fixed socket, nut fixing, key (G) or keys (A...F and R) and cable collet

Not show in this catalogue. Refer to our catalogue unipole-multipole

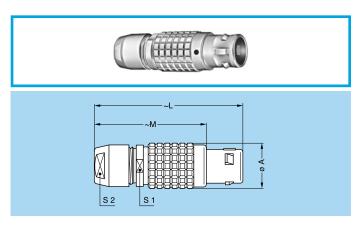
Certain models and certain alignment key may not be available in all series. Please consult us.





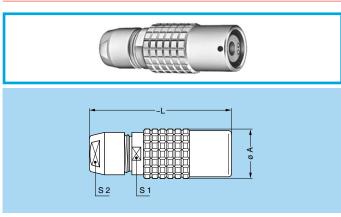
FGG.2B.P12.CLAD72Z = Straight plug with key (G), 2B series, mixed type to accept one P1 fluid contact and 4 low voltage electrical contacts, chrome-plated brass housing, PEEK insulator, 4 male solder electrical contacts, type D collet system to suit a 6.1 to 7.0 mm diameter cable, and a nut for fitting a bend relief.

Note:1) The «Variant» position in the reference is used to indicate the presence of a collet nut for fitting the bend relief. The bend relief must be ordered separately (see page 12).



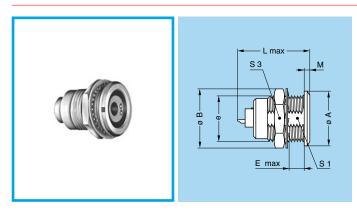
FGG Straight plug, key (G) or keys (A...F and R) and cable collet

Refe	rence		Dimensions (mm)							
Model	Series	Α	L	М	S1	S2				
FGG	2B	15	50	38	13	12				
FGG	3B	18	58	43	15	14				
FGG	4B	25	75	57	21	20				
FGG	5B	35	103	78	31	30				



PHG Free socket, key (G) or keys (A...F and R) and cable collet

Refe	rence	Dimensions (mm)							
Model	Series	Α	L	S1	S2				
PHG	2B	16.5	47.0	13	12				
PHG	3B	19.0	56.0	15	14				
PHG	4B	24.4	73.0	21	20				
PHG	5B	34.2	99.0	31	30				



EGG Fixed socket, nut fixing, key (G) or keys (A...F and R)

Refe	rence	Dimensions (mm)							
Model	Series	Α	В	е	e E		М	S1	S3
EGG	2B	18	19.2	M15x1.0	8.5	28.8	1.8	13.5	17
EGG	3B	22	25.0	M18x1.0	11.5	30.0	2.0	16.5	22
EGG	4B	28	34.0	M25x1.0	12.0	34.5	2.5	23.5	30
EGG	5B	40	40.0	M35x1.0	11.0	36.5	3.0	33.5	-
EGG	5B ¹⁾	40	40.0	M35x1.0	11.0	45.9	3.0	33.5	-

Note: 1) with P3 contact.

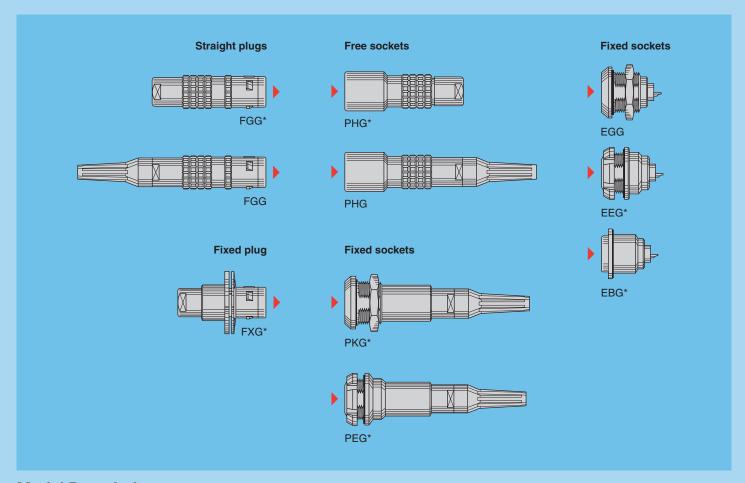


2K-5K Series

The P1 fluidic contact has been designed to work in the 2K-5K series. The P3 contact has been designed to work in the 5K series. The main features of these series are as follows:

- security of the LEMO Push-Pull self-latching system
- specially designed for outdoors applications. All these models are waterproof when mated and reach a protection index of IP 66-IP 68, according to the IEC 60529 standard
 the alignment key (G, A...F and R) ensures excellent repeatability of performance during frequent matings
- the P1 fluidic contact allows hybrid configuration in the 2K series and multi fluid up to 10 channels in the 5K series.

The 2K-5K series consists of ten models which will accept outer cable diameters ranging from 2.6 mm to 23.5 mm.



Model Description

EBG Fixed socket with square flange, key (G) or keys (A...F and R), four holes fixing
EEG Fixed socket, nut fixing,

key (G) or keys (A...F and R)

(báck panel mounting) **EGG** Fixed socket, nut fixing,

key (G) or keys (A...F and R) Straight plug, key (G) or keys (A...F and R), cable collet **FGG**

FGG Straight plug, key (G) or keys
(A...F and R), cable collet
and nut for fitting a bend relief
FXG Fixed plug with round flange, four holes
fixing, key (G) or keys (A...F and R)
PEG Fixed socket, nut fixing, key (G) or keys
(A...F and R), cable collet and nut for
fitting a bend relief (back panel mounting

fitting a bend relief (back panel mounting)
Free socket, key (G) or keys
(A...F and R), cable collet

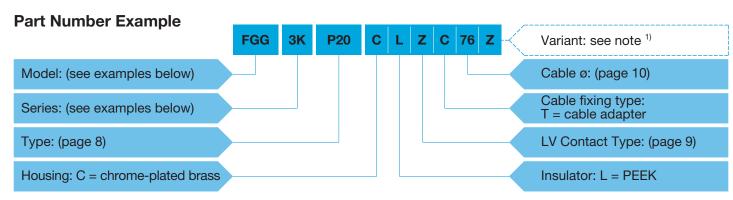
PHG

PHG Free socket, key (G) or keys
(A...F and R), cable collet
and nut for fitting a bend relief
PKG Fixed socket, nut fixing, key (G) or keys
(A...F and R), cable collet and nut
for fitting a bend relief

Not show in this catalogue. Refer to our catalogue unipole-multipole

Certain models and certain alignment key may not be available in all series. Please consult us.

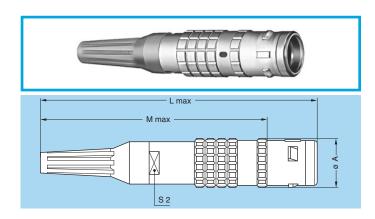




FGG.3K.P20.CLZC76Z = Straight plug with key (G), 3K series, multi fluid with 2 times P1 contacts, chrome-plated brass housing, PEEK insulator, C type collet for 7.5 mm diameter cable, and nut for fitting a bend relief.

Note: Connectors are always delivered without fluidic contact.

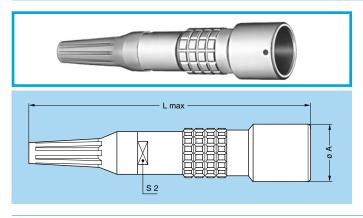
1) The «Variant» position in the reference is used to indicate the presence of a collet nut for fitting the bend relief. The bend relief must be ordered separately (see page 12).



FGG Straight plug, key (G) or keys (A...F and R), cable collet and nut for fitting a bend relief

Refe	rence	Dimensions (mm)								
Model	Series	Α	L	М	S2					
FGG	2K	16	101	85.0	12					
FGG	3K	19	109	89.0	15					
FGG	4K	25	131	110.5	19					
FGG	5K	38	160	135.0	30					

Note: The overall length dimension is with bend relief

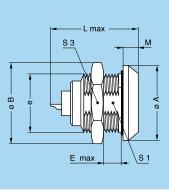


PHG Free socket, key (G) or keys (A...F and R), cable collet and nut for fitting a bend relief

Refe	rence	Dimensions (mm)						
Model	Series	А	L	S2				
PHG	2K	19	103.0	12				
PHG	3K	23	113.0	15				
PHG	4K	29	135.5	19				
PHG	5K	42	164.0	30				

Note: The overall length dimension is with bend relief





EGG Fixed socket, nut fixing, key (G) or keys (A...F and R)

Refe	rence	Dimensions (mm)							
Model	Series	Α	В	е	Е	L	М	S1	S3
EGG	2K	25	27.0	M20x1.0	9	32.8	5.0	18.5	24
EGG	3K	31	34.0	M24x1.0	11	35.5	6.0	22.5	30
EGG	4K	37	40.5	M30x1.0	9	37.0	6.5	28.5	36
EGG	5K	55	54.0	M45x1.5	10	40.5	9.0	42.5	_







Insert configuration

Multi fluid and Mixed fluid + LV

					Fluid	dic co	ntact				Lo	w Vc	ltage	cont	act		
						93)	3)	(bars)				ntact		lder itact	Cri	mp tact	
	Male solder contacts	Female solder contacts		eqr		(see page	see page	pressure					kV rms)	(V rms)	«V rms) act	«V rms)	(E)
	Male crimp contacts	Female crimp contacts	Reference	Nb of fluidic tube	Туре	Ext. ø of tube (see page 3)	Int. ø of tube (see page 3)	Max. working pressure (bars)	Contact No	ø A (mm)	Solder	Crimp	Test voltage (kV rms) Contact-contact	Test voltage (kV rms) Contact-shell	Test voltage (kV rms) Contact-contact	Test voltage (kV rms) Contact-shell	Rated current (A)
2B		O	P11	1	P1	3.0 4.0	1.8 2.0	6	2	0.9	•	•	1.75	1.60	1.85	1.60	9.0
2K		O	P12	1	P1	3.0 4.0	1.8 2.0	6	4	0.7	•	•	0.85	1.20	0.85	1.25	6.0
			P13	1	P1	3.0 4.0	1.8 2.0	6	6	0.7	•	•	0.85	1.20	0.85	1.25	6.0
			P15	1	P1	3.0 4.0	1.8 2.0	6	10	0.7	•	•	1.15	1.35	1.30	1.05	6.0
3B 3K		Ō	P20	2	P1	3.0 4.0	1.8 2.0	6	_	-	_	_	_	_	_	-	-
			P22	2	P1	3.0 4.0	1.8 2.0	6	4	0.9	•	•	1.20	1.05	1.00	0.80	8.0
			P23	2	P1	3.0 4.0	1.8 2.0	6	6	0.9	•	•	1.20	1.05	1.00	0.80	8.0
			P25	2	P1	3.0 4.0	1.8 2.0	6	10	0.7	•	•	0.95	0.75	0.85	0.65	6.0
			P28	2	P1	3.0 4.0	1.8 2.0	6	16	0.7	•	•	0.80	0.70	0.80	0.75	5.5
4B 4K		00	P40	4	P1	3.0	1.8	6	_	-	-	_	-	_	_	-	_
		00 00	P49	4	P1	3.0	1.8	6	9	0.7	•	•	1.00	1.00	0.80	0.80	8
		000	P33	3	P1	3.0	1.8	6	6	0.7	•	•	0.90	0.95	0.80	0.80	8
			P36	3	P1	3.0	1.8	6	12	0.7	•	•	0.90	0.95	0.80	0.80	6
			P26	2	P1	3.0	1.8	6	12	0.9	•	•	0.95	0.85	0.90	1.20	10
		O O	P28	2	P1	3.0	1.8	6	16	0.9	•	•	0.95	0.85	0.85	0.85	10
			P29	2	P1	3.0	1.8	6	18	0.7	•	•	0.90	0.95	0.85	0.75	8



Multi fluid and Mixed fluid + LV

	_	_			Fluic	lic co	ntact				Lo	w Vo	Itage	conta	act		
						93)	3)	(bars)			Con typ			der tact	Cri con	mp tact	
	Male solder contacts	Female solder contacts		90		see page	e page	ressure					/ rms)	/ rms)	/ rms)	/ rms)	7
			Reference	Nb of fluidic tube	Φ	Ext. ø of tube (see page	Int. ø of tube (see page	Max. working pressure	Contact No	ø A (mm)	der	dи	Test voltage (kV rms) Contact-contact	Test voltage (kV rms) Contact-shell	Test voltage (kV rms) Contact-contact	Test voltage (kV rms) Contact-shell	Rated current (A)
	Male crimp contacts	Female crimp contacts	Ref	g	Type	Ĕ.	<u>=</u>	Ma	Cor	ØΑ	Solder	Crimp	Cor	Cor	Cor	Cor	Rate
5B 5K			P01	10	P1	3.0	1.8	6	-	-	-	_	_	_	_	_	-
			P30	3	P3	6.0	4.0	6	-	-	_	_	_	_	_	_	_
			P40	4	P3	6.0	4.0	6	-	-	_	_	_	_	_	_	_

	Housings (B and K series)
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Ref.	Outer shell and collet nut		Outer shell and collet nut Latch sleeve + earthing crown		Other metallic components		Remarks
	Material	Surf. treatment	Material	Surf. treatment	Material	Surf. treatment	
С	Brass	chrome	brass/bronze	nickel 2)	brass	nickel	
G	PEEK (natural)	_	brass/bronze	nickel ²⁾	brass	nickel	Only for FGG and ENG (B series)
Р	PSU	_	brass/bronze	nickel ²⁾	brass	nickel	Only for FGY and ENY (B series) 1)

 $\textbf{Note:} \ ^{1)} \ \text{see "variant"} \ \text{for the colour.} \ ^{2)} \ \text{in the K series, the latch sleeve is chrome-plated.}$



Contact for plug, socket, and fixed socket

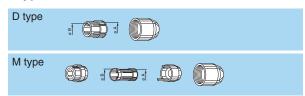
Ref.	Contact type
А	male solder
С	male crimp
L	female solder
М	female crimp
Z	no contact





Collets (B and K series)

D and M type collets for B series



	Reference		Coll	Collet ø		Cable ø	
	Type	Code	øΑ	ø B	max.	min.	Notes
	D	42	4.2	_	4.2	> 3.2	
2B	D	52	5.2	ı	5.2	> 4.2	
	D	62	6.2	-	6.2	> 5.2	
	D	72	7.2	1	7.2	> 6.2	
	D	82	8.2	ı	8.2	> 7.2	
	D	92	9.2	8.6	9.2	> 8.2	
	D	99	9.9	8.6	9.9	> 9.2	1)
	M	52	5.2	_	5.2	> 4.2	
3B	D	62	6.2	-	6.2	4.9	
	D	72	7.7	_	7.7	> 6.2	
	D	92	9.2	ı	9.2	> 7.7	
	D	10	10.2	_	10.0	> 9.2	
	D	11	11.0	_	11.0	> 10.1	
	D	12	12.0	10.2	11.9	10.8	1)

	Reference		Coll	et ø	Cable ø		Netes
	Type	Code	ø A	ø B	max.	min.	Notes
	M	62	6.2	_	6.2	4.9	
4B	M	72	7.2	_	7.7	> 6.2	
	M	92	9.2	8.6	9.2	> 7.7	
	D	10	10.8	_	10.5	9.1	
	D	12	12.3	_	12.0	10.6	
	D	13	13.8	12.5	13.5	12.1	
	D	15	15.3	12.5	15.0	13.6	
	D	16	16.3	12.5	16.0	15.1	1)
	D	11	11.8	_	11.5	9.6	
5B	D	13	13.8	_	13.5	11.6	
	D	15	15.8	_	15.5	13.6	
	D	17	17.8	_	17.5	15.6	1)
	D	19	19.8	_	19.5	17.6	1)
	D	21	21.8	_	21.5	19.6	1)
	D	23	23.8	21.8	23.5	21.6	1)
	D	25	25.3	21.8	25.0	23.6	1)

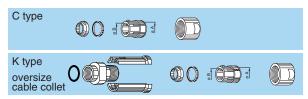
Note: all dimensions are in millimetres.

1) these collets cannot be used for connector models with nut for fitting a bend relief.





C and K type collets for K series



	Refe	rence	Coll	et ø	Cab	le ø
	Туре	Code	ø A	øΒ	max.	min.
	С	35	4.2	_	3.5	3.1
2K	С	40	4.2	_	4.0	3.6
	С	45	5.2	_	4.5	4.1
	С	50	5.2	_	5.0	4.6
	С	55	6.2	_	5.5	5.1
	С	60	6.2	_	6.0	5.6
	С	65	7.2	_	6.5	6.1
	С	70	7.2	_	7.0	6.6
	С	75	8.2	8.2	7.5	7.1
	С	80	8.2	8.2	8.0	7.6
	С	85	9.2	8.6	8.5	8.1
	K	90	9.2	_	9.0	8.6
	K	95	10.2	10.2	9.5	9.1
	K	10	10.2	10.2	10.0	9.6
	K	11	11.2	10.6	10.5	10.1
	С	30	3.2	_	3.0	2.6
3K	С	35	4.2	-	3.5	3.1
	С	40	4.2	_	4.0	3.6
	С	45	5.2	_	4.5	4.1
	С	50	5.2	_	5.0	4.6
	С	55	6.2	_	5.5	5.1
	С	60	6.2	_	6.0	5.6
	С	65	7.2	_	6.5	6.1
	С	70	7.2	_	7.0	6.6
	С	75	8.2	-	7.5	7.1
	С	80	8.2	-	8.0	7.6
	С	85	9.2	ı	8.5	8.1
	С	90	9.2	-	9.0	8.6
	С	95	10.2	10.2	9.5	9.1
	С	10	10.2	10.2	10.0	9.6
	С	11	11.2	10.6	10.5	10.1
	K	11	12.3	_	12.0	10.6
	K	12	13.8	13.8	12.8	12.1
	K	13	13.8	13.8	13.5	12.9
	K	14	15.3	15.3	14.0	13.6
	K	15	15.3	15.3	15.0	14.1

Note: all	dimensions	are in	millimetres.
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	Refe	rence	Coll	et ø	Cab	ole ø
	Туре	Code	ø A	ø B	max.	min.
	С	50	6.3	_	5.0	4.6
4K	С	55	6.3	_	5.5	5.1
	С	60	6.3	_	6.0	5.6
	С	65	7.3	_	6.5	6.1
	С	70	7.3	_	7.0	6.6
	С	75	8.3	_	7.5	7.1
	С	80	8.3	_	8.0	7.6
	С	85	9.3	_	8.5	8.1
	С	90	9.3	_	9.0	8.6
	С	95	10.8	_	9.5	9.1
	С	10	10.8	_	10.5	9.6
	С	11	12.3	_	12.0	10.6
	С	12	13.8	13.8	12.8	12.1
	С	13	13.8	13.8	13.5	12.9
	С	14	15.3	15.3	14.0	13.6
	С	15	15.3	15.3	15.0	14.1
	K	16	17.8	_	16.5	15.6
	K	17	17.8	_	17.5	16.6
	K	18	19.8	_	18.5	17.6
	K	19	19.8	_	19.5	18.6
	K	20	21.8	_	20.5	19.6
	K	21	21.8	_	21.5	20.6
	K	22	23.8	23.8	22.5	21.6
	K	23	23.8	23.8	23.5	22.6
	С	10	11.8	-	10.5	9.6
5K	С	11	11.8	_	11.5	10.6
	С	12	13.8	_	12.5	11.6
	С	13	13.8	_	13.5	12.6
	С	14	15.8	_	14.5	13.6
	С	15	15.8	-	15.5	14.6
	С	16	17.8	_	16.5	15.6
	С	17	17.8	_	17.5	16.6
	С	18	19.8	_	18.5	17.6
	С	19	19.8	_	19.5	18.6
	С	20	21.8	_	20.5	19.6
	С	21	21.8	_	21.5	20.6
	С	22	23.8	23.8	22.5	21.6
	С	23	23.8	23.8	23.5	22.6

Tools

Extractor

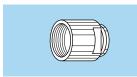
Reference	Contact type
DCC.91.10P.1LA	P1
DCC.91.808.0LC	P3





Variant (B and K series)

Bend relief for B series models with collet

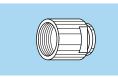


Need to be ordered

	of.	Collet			
	Ref.	Туре	Code		
2B	Z	D	42 to 92		
3B	Z	М	52		
SD		D	62 to 10		
4B		М	62 and 72		
4D	Ζ	М	92		
		D	10 to 15		
5B	Z	D	11 to 15		

Need to be ordered separately
GMA.2B.•••.••
GMA.1B.•••.••
GMA.3B.•••.••
GMA.2B.•••.••
GMA.4B.●●●.●●
GMA.4B.•••.••
GMA.4B.•••.••

Bend relief for K series models with collet



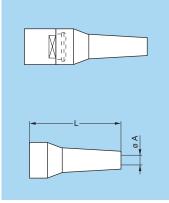
Need to be ordered

	ef.	Collet			
	Ref.	Туре	Code		
2K	Z	С	40 to 85		
2N		K	90 to 10		
3K	Z	С	40 to 10		
3N		K	11 to 15		
4K	Z	С	50 to 15		

Need to be ordered separately
GMA.2B.•••.••
GMA.3B.•••.••
GMA.3B.•••.••
GMA.4B.•●•.●●
GMA.4B.●●●.●●

Note: All dimensions are in millimetres.





GM Bend relief

A bend relief made from thermoplastic polyurethane elastomer can be fitted over LEMO plugs and sockets that are supplied with nut for fitting such bend relief.

They are available in nine different colours that match with

They are available in nine different colours that match with the GRA insulating washers (see unipole-multipole catalog). Use the part numbers shown below to order this accessory separately.



Main characteristics

- Material: TPU (Thermoplastic Polyurethane)
- Temperature range in dry atmosphere: -40°C +80°C

	Dimensions (mm)				
Part number	Bend	relief	Cab	le ø	Series
	Α	L	max.	min.	
GMA.2B.040.DG	4.0	36	4.5	4.0	
GMA.2B.045.DG	4.5	36	5.0	4.5	2B-2K
GMA.2B.060.DG	6.0	36	6.5	6.0	20-21
GMA.2B.070.DG	7.0	36	7.7	7.0	
GMA.3B.060.DG	6.0	42	6.9	6.0	
GMA.3B.070.DG	7.0	42	7.9	7.0	3B-3K
GMA.3B.080.DG	8.0	42	8.9	8.0	
GMA.4B.011.DG	11.0	60	11.9	11.0	
GMA.4B.012.DG	12.0	60	13.0	12.0	4B-4K-5B
GMA.4B.013.DG	13.5	60	14.5	13.5	

Ref.	Colour		
Α	blue		
В	white		
G	grey		
J	yellow		
M	brown		

Colour	Ref.	Colour
ie	N	black
ite	R	red
Эy	S	orange
low	V	green
own		

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.



Product safety notice

PLEASE READ AND FOLLOW ALL INSTUCTIONS 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 €

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

The LEMO Group reserves the right to modify and improve to our products or specifications without providing prior notification.

LEMO HEADQUARTERS

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

LEMO SUBSIDIARIES

AUSTRIA LEMO Elektronik GesmbH Lemböckgasse 49/E6-3 1230 Wien Tel: (+43 1) 914 23 20 0 Fax:(+43 1) 914 23 20 11 sales@lemo.at

BRAZIL LEMO Latin America Ltda Av. José Rocha Bonfim, 214 Salas 224 / 225 Condomínio Praça Capital Ed. Chicago Campinas / SP - Brasil 13080-650 Tel: +55 (11) 98689 4736 info-la@lemo.com

CANADA LEMO Canada Inc 44 East Beaver Creek Road, unit 20 Richmond Hill, Ontario L4B 1G8 Tel: (+1 905) 889 56 78 Fax: (+1 905) 889 49 70 info-canada@lemo.com

CHINA / HONG KONG LEMO Electronics (Shanghai) Co., Ltd First Floor, Block E, 18 Jindian Road, Pudong Shanghai, China, 201206 Tel: (+86 21) 5899 7721 Fax: (+86 21) 5899 7727 cn.sales@lemo.com

DENMARK LEMO Denmark A/S Gammel Mosevej 46 2820 Gentofte Tel: (+45) 45 20 44 00 Fax: (+45) 45 20 44 01 info-dk@lemo.com

FRANCE LEMO France Sàrl 24/28 Avenue Graham Bell Bâtiment Balthus 4 Bussy Saint Georges 77607 Marne la Vallée Cedex 3 Tel: (+33 1) 60 94 60 94 Fax: (+33 1) 60 94 60 90 info-fr@lemo.com

GERMANY LEMO Elektronik GmbH Hanns-Schwindt-Str. 6 81829 München Tel: (+49 89) 42 77 03 Fax: (+49 89) 420 21 92 info@lemo.de

HUNGARY REDEL Elektronika Kft Nagysándor József u. 6-12 1201 Budapest Tel: (+36 1) 421 47 10 Fax: (+36 1) 421 47 57 info-hu@lemo.com

ITALY LEMO Italia srl Viale Lunigiana 25 20125 Milano Tel: (+39 02) 66 71 10 46 Fax: (+39 02) 66 71 10 66 sales.it@lemo.com

JAPAN LEMO Japan Ltd 2-7-22, Mita, Minato-ku, Tokyo, 108-0073 Tel: (+81 3) 54 46 55 10 Fax: (+81 3) 54 46 55 11 lemoinfo@lemo.co.jp

MIDDLE EAST LEMO Middle East Gen. Trad. LLC Concorde Tower 6th Floor, Dubai Media City, P.O. Box 126732 Dubai, United Arab Emirates Tel: +971 55 222 36 77 info-me@lemo.com

NETHERLANDS / BELGIUM LEMO Connectors Benelux De Trompet 1060 1967 DA Heemskerk Tel. (+31) 251 25 78 20 Fax (+31) 251 25 78 21 info@lemo.nl

NORWAY / ICELAND LEMO Norway A/S Stanseveien 6B, 0975 Oslo Tel: (+47) 22 91 70 40 Fax: (+47) 22 91 70 41 info-no@lemo.com

SINGAPORE LEMO Asia Pte Ltd 4 Leng Kee Road, #06-09 SiS Building Singapore 159088 Tel: (+65) 6476 0672 Fax: (+65) 6474 0672 sg.sales@lemo.com

SPAIN / PORTUGAL IBERLEMO SAU Brasil, 45, 08402 Granollers Barcelona Tel: (+34 93) 860 44 20 Fax: (+34 93) 879 10 77 info-es@lemo.com

SWEDEN / FINLAND LEMO Nordic AB Mariehällsvägen 39A 168 65 Bromma Tel: (+46 8) 635 60 60 Fax: (+46 8) 635 60 61 info-se@lemo.com

SWITZERLAND LEMO Verkauf AG Grundstrasse 22 B 6343 Rotkreuz Tel: (+41 41) 790 49 40 ch.sales@lemo.com

UNITED KINGDOM LEMO UK Ltd 12-20 North Street, Worthing, West Sussex, BN11 1DU Tel: (+44 1903) 23 45 43 lemouk@lemo.com

USA LEMO USA Inc P.O. Box 2408 Rohnert Park, CA 94927-2408 Tel: (+1 707) 578 88 11 (+1 800) 444 53 66 Fax:(+1 707) 578 08 69 info-US@lemo.com

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