P1/P3 FLUIDIC CONTACT WITH VALVE





L), LEMD,

Precision modular connectors to suit your application

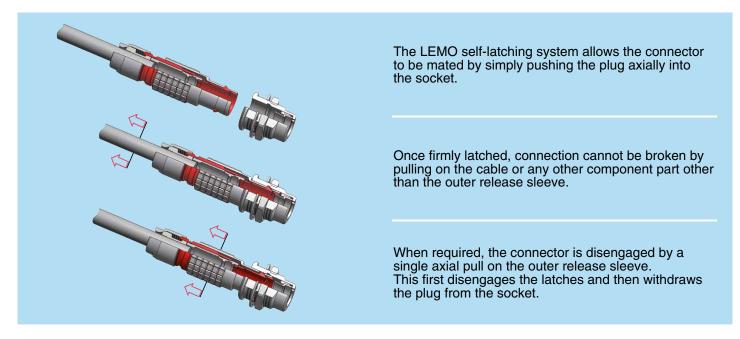
Since its creation in Switzerland in 1946 the LEMO Group has been recognized as a global leader of circular Push-Pull connectors and connector solutions. Today LEMO and its affiliated companies, REDEL and COELVER, are active in more than 80 countries with the help of over 40 subsidiaries and distributors.

Over 75000 connectors

The modular design of the LEMO range provides over 75000 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.

Lemo.

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:

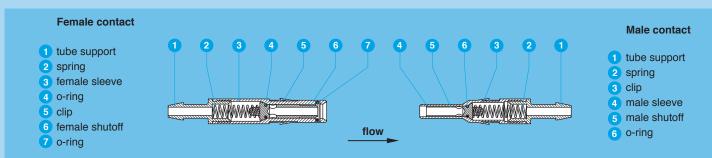
- contacts with shut-off valve

- 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.

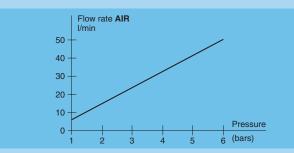
Part Section Showing Internal Components



Technical Characteristics Material and Treatment

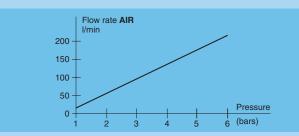
Components	Value
Body	Stainless steel
Valve	Alloy CuNiZn
Spring	Stainless steel
Clips	CuBe
O-ring	FPM

Flow/pressure diagram P1 contact type



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

Flow/pressure diagram P3 contact type

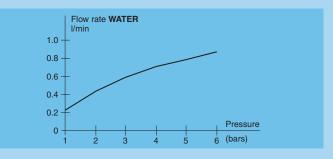


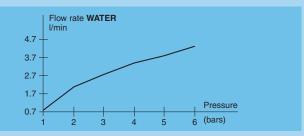
www.lemo.com

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	

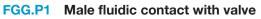
Note: flow direction is always from female contact to male contact.

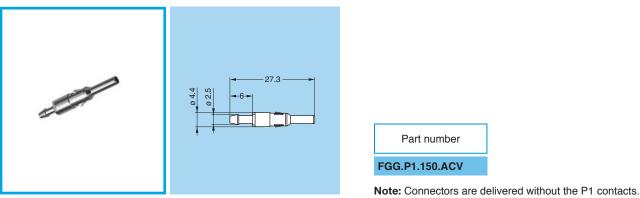




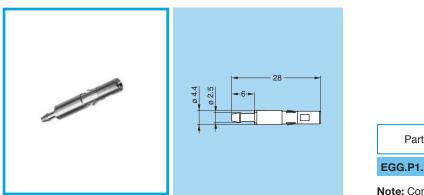


P1 contacts







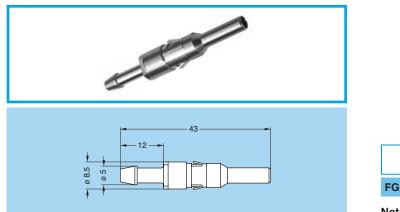


Part number
EGG P1 150 ACV



P3 contacts





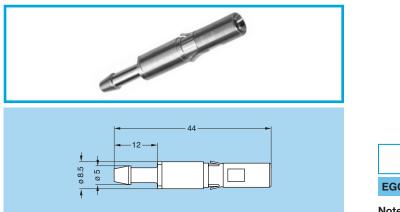
Part number
FGG.P3.300.ACV

Note: Connectors are delivered without the P3 contacts.





EGG.P3 Female fluidic contact with valve

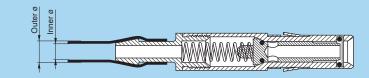


Part number	
EGG.P3.300.ACV	

Note: Connectors are delivered without the P3 contacts.

Recommended tubing/hose

Series Contact		Diamet	er (mm)	Supplier	Material	Colour	Working temperature	
Series	type	Outer ø	Inner ø	Supplier	Wateria	Coloui	working temperature	
2B, 3B, 2K, 3K	P1	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	P1	3.0	1.8	Legris 1025U030118	Polyurethane	Black	-20° C to 70° C	
2K, 3K, 4K, 5K	P1	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	

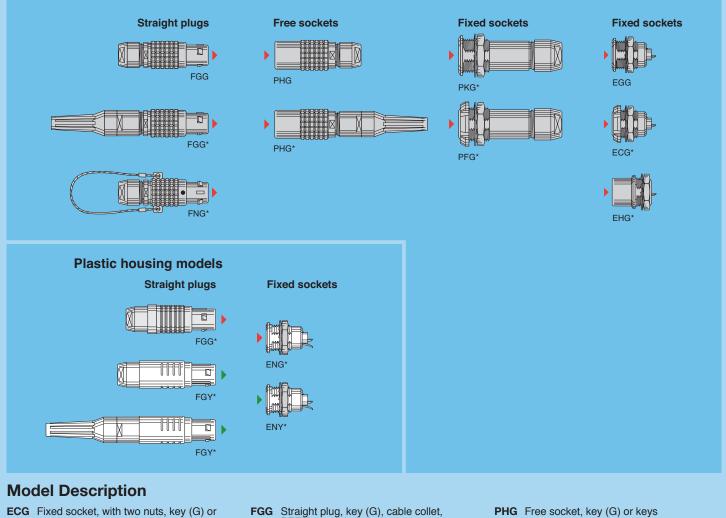




2B-5B Series

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.



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 keys (A...F and R), (back panel moun-FGY ting) 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 EGG FGY EHG FNG ENG

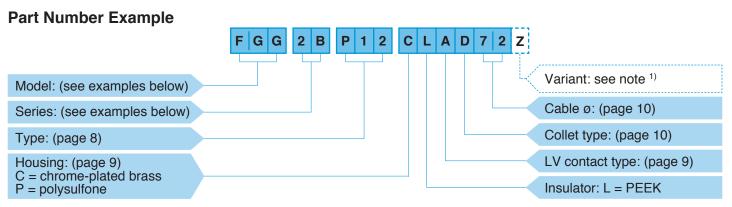
- ENY
- or keys (A...F and H) with visible shell Fixed socket with grounding tab, nut fixing, key (G), PEEK outer shell Fixed socket with grounding tab, nut fixing, keys (Y), PSU or PPSU outer shell Straight plug, key (G) or keys (A...F and R) and cable collet Straight plug, key (G) or keys (A...F) cable collet and nut for fitting a bend relief FGG
- FGG

- with lanyard release PFG 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
- 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.

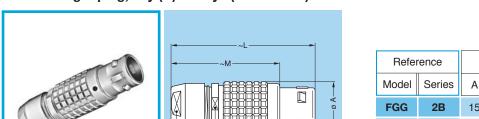




FGG.2B.P12.CLAD72Z = Straight plug with key (G), 2B series, mixed type to accept one P1 fluid contact and 4 low voltage electrical contacts, chrome-plated brass housing, PEEK insulator, 4 male solder electrical contacts, type D collet system to suit a 6.1 to 7.0 mm diameter cable, and a nut for fitting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

Note: 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).



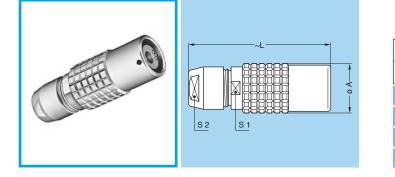
FGG Straight plug, key (G) or keys (A...F and R) and cable collet

Refer	rence		Dimer	nsions	(mm)	1
Model	Series	А	L	М	S1	
FGG	2B	15	50	38	13	
FGG	3B	18	58	43	15	
FGG	4B	25	75	57	21	
FGG	5B	35	103	78	31	

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

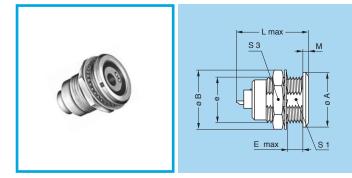
S 1

S 2



Refe	rence	Din	Dimensions (mm)						
Model	Series	А	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	L	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	5 B	40	40.0	M35x1.0	11.0	36.5	3.0	33.5	-
EGG	5 B ¹⁾	40	40.0	M35x1.0	11.0	45.9	3.0	33.5	-

S2

12 14

20 30

Note: 1) with P3 contact.



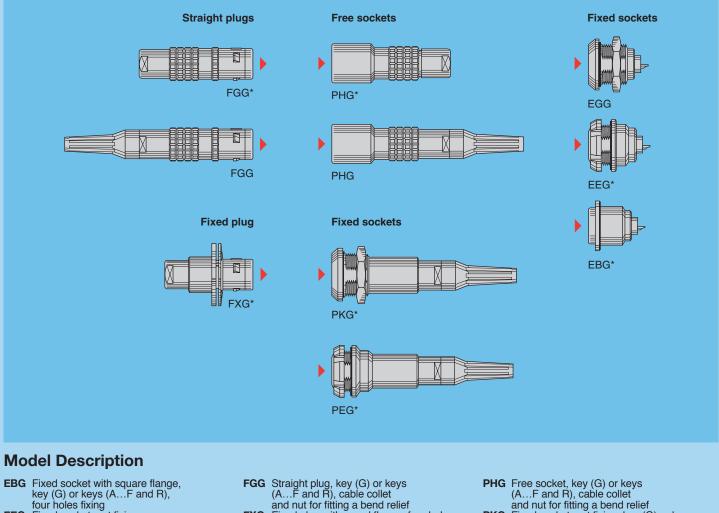
2K-5K Series

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.



Fixed socket, nut fixing, key (G) or keys (A...F and R) (back panel mounting) Fixed socket, nut fixing, key (G) or keys (A...F and R) Straight plug, key (G) or keys EEG

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

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

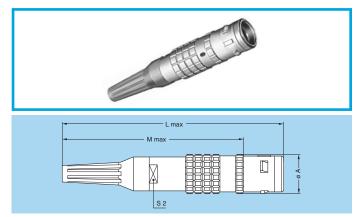
Certain models and certain alignment key may not be available in all series. Please consult us.



Part Number Example					_	_		_		_		_	,	
•	FG	i G	3 H	K	2	0	С	L	Z	С	7	6	z	
							Τ	Τ		Τ			Τ.	
													K	Variant: see note 1)
Model: (see examples below)											L		-	Cable ø: (page 10)
Series: (see examples below)														Cable fixing type: T = cable adapter
Type: (page 8)													-	LV Contact Type: (page 9)
Housing: C = chrome-plated brass														Insulator: L = PEEK

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).

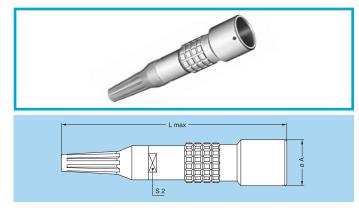


FGG Stra	ght plug, key	(G) or keys (A.	.F and R), cable	collet and nut fo	r fitting a bend relief
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Refer	rence	Dimensions (mm)						
Model	Series	А	L	М	S2			
FGG	2K	16	101	85.0	12			
FGG	ЗК	19	109	89.0	15			
FGG	4K	25	131	110.5	19			
FGG	5K	38	160	135.0	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	Dime	nsions	(mm)
Model	Series	А	L	S2
PHG	2K	19	103.0	12
PHG	ЗK	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)

L max	
<u>S 3</u> <u>M</u>	Refe
	Model
	EGG
	EGG
	EGG
E max	EGG

Refe	erence			Dime	ension	is (mm)			
Model	Series	А	В	е	Е	L	М	S1	S3
EGG	2K	25	27.0	M20x1.0	9	32.8	5.0	18.5	24
EGG	ЗK	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

				I													
					Fluid	dic co	ntact	-					1	conta			
						3)	3)	bars				ntact pe		lder Itact	Cri con	mp tact	
	e e					ø of tube (see page 3)	Int. ø of tube (see page 3)	Max. working pressure (bars)					IS)	IS)	IS)	s)	
	Male solder contacts	Female solder contacts		ø		see	d əə	ISSƏ.					E T	L L L	E T	E V	(F
				c tub) ec	e (s	ng pr					e (k/ ntaci	e (k)	e (k) ntaci	e (K)	ent (/
			nce	uidio		of tul	f tub	orkir	t No	Ê			Itag t-coi	Itag t-sh	Itag t-coi	Itag t-sh	curre
	₩ 4 0		Reference	Nb of fluidic tube	e	t. Ø	Ø	X. W	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)
	Male crimp contacts	Female crimp contacts	Re	q	Type	Ext.	Int.	Ma	ပိ	Ø	S	Cri	ĕ°	ĕ°	ĕ°	ĕ°	Ba
2B 2K		\bigcirc	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		\bigcirc	P12	1	P1	3.0	1.8 2.0	6	4	0.7	•	•	0.85	1.20	0.85	1.25	6.0
			P13		P1	4.0 3.0	1.8	6	6	0.7						1.25	
						4.0 3.0	2.0 1.8										
			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
							1.8										
			P23	2	P1	3.0 4.0	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
			DOO	0		3.0	1.8	0	10	0.7			0.00	0.70	0.00	0.75	
			P28	2	P1	4.0	2.0	6	16	0.7		•	0.80	0.70	0.80	0.75	5.5
4B			P40	4	P1	3.0	1.8	6	_	_	_	_	_	_	_	_	_
4K																	
			P49	4	P1	3.0	1.8	6	9	0.7	•	•	1.00	1.00	0.80	0.80	8
			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
			F30	3		3.0	1.0	0	12	0.7			0.90	0.95	0.80	0.00	0
			P26	2	P1	3.0	1.8	6	12	0.9			0 95	0.85	0 00	1.20	10
			. 20	2		0.0	1.0	0	12	0.0			0.00	5.00	5.50	1.20	10
			P28	2	P1	3.0	1.8	6	16	0.9	•	•	0.95	0.85	0.85	0.85	10
		ASO B	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	dic co	ntact				Lo	w Vo	ltage	conta	act		
						le 3)	e 3)	(bars)				ntact pe		der tact	Cri con	mp itact	
	ح ∥ Male solder contacts	Female solder contacts		e		see page	(see page	essure					/ rms) t	/ rms)	/ rms) t	/ rms)	A)
			Reference	Nb of fluidic tube	Ð	. ø of tube (see	ø of tube (s	Max. working pressure (bars)	Contact No	A (mm)	Solder	du	Test voltage (kV Contact-contact	Test voltage (kV I Contact-shell	Test voltage (kV Contact-contact	Test voltage (kV rms) Contact-shell	Rated current (A)
	Male crimp contacts	Female crimp contacts	Ref	qN	Type	Ext.	Int.	Max	Cor	ØΑ	Sol	Crimp	Tes Cor	Tes Cor	Tes Cor	Tes Cor	Rat
5B 5K			P01	10	P1	3.0	1.8	6	_	_	_	_	_	-	_	_	_
			P30	3	P3	6.0	4.0	6	_	_	_	_	_	_	_	_	_
		88	P40	4	P3	6.0	4.0	6	_	_	_	_	_	_	_	_	_



Housings (B and K series)

Ref.	Outer shell and collet nut		Latch sleeve +	earthing crown	Other metallie	c components	Remarks
1101.	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⁾

Note: $^{\mbox{\tiny 1)}}$ see «variant» for the colour. $^{\mbox{\tiny 2)}}$ in the K series, the latch sleeve is chrome-plated.

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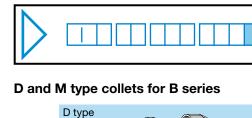


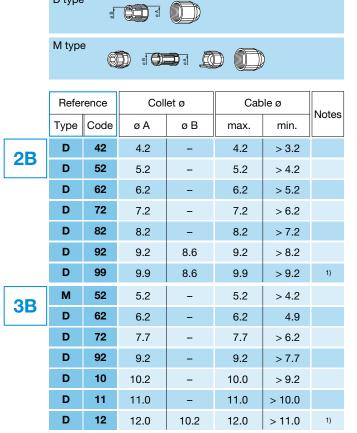
Electrical Contact

Contact for plug, socket, and fixed socket

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

(T). LEMD.





	Refe	rence	Coll	et ø	Cab	ole ø	Notes
	Туре	Code	ø A	øΒ	max.	min.	notes
4B	М	62	6.2	-	6.2	4.9	
4D	М	72	7.2	-	7.7	> 6.2	
	М	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)
5B	D	11	11.8	-	11.5	9.6	
30	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)
1	D	25	25.3	21.8	25.0	23.6	1)

Collets (B and K series)

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

	C type)	00:0) :	D							
	K type oversiz cable	_{ze} C										
	Reference Collet ø Cable ø											
	Туре	Code	ø A	øΒ	max.	min.						
2K	С	35	4.2	-	3.5	3.1						
211	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						
	C C C C C	45 50 55 60 65	5.2 5.2 6.2 6.2 7.2	- - - - - -	4.5 5.0 5.5 6.0 6.5	4.1 4.6 5.1 5.6 6.1						

	Refe	rence	Coll	et ø	Cab	ole ø
	Туре	Code	ø A	ø B	max.	min.
2K	С	75	8.2	8.2	7.5	7.1
21	С	80	8.2	8.2	8.0	7.6
	С	85	9.2	8.6	8.5	8.1
	к	90	9.2	-	9.0	8.6
	к	95	10.2	10.2	9.5	9.1
	к	10	10.2	10.2	10.0	9.6
	к	11	11.2	10.6	10.5	10.1

Note: all dimensions are in millimetres.

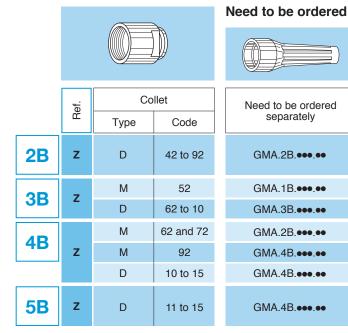
C and K type collets for K series

			00:0		D			
	K type oversiz cable o	_{ze} C				3		
	Refe	rence	Coll	et ø	Cable ø			
	Туре	Code	ø A	øВ	max.	min.		
	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	-	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		
	к	11	12.3	-	12.0	10.6		
	к	12	13.8	13.8	12.8	12.1		
	к	13	13.8	13.8	13.5	12.9		
	к	14	15.3	15.3	14.0	13.6		
	к	15	15.3	15.3	15.0	14.1		
	С	50	6.3	_	5.0	4.6		
4K	C	55	6.3	_	5.5	5.1		
	C	60	6.3	_	6.0	5.6		
	С	65	7.3	_	6.5	6.1		
	С	70	7.3	_	7.0	6.6		
	C	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		
	C	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		
	C	13	13.8	13.8	13.5	12.9		

	Refe	rence	Coll	et ø	Cab	ole ø
	Туре	Code	ø A	ø B	max.	min.
	С	14	15.3	15.3	14.0	13.6
4K	С	15	15.3	15.3	15.0	14.1
	К	16	17.8	-	16.5	15.6
	К	17	17.8	-	17.5	16.6
	К	18	19.8	-	18.5	17.6
	К	19	19.8	-	19.5	18.6
	К	20	21.8	-	20.5	19.6
	К	21	21.8	-	21.5	20.6
	К	22	23.8	23.8	22.5	21.6
	К	23	23.8	23.8	23.5	22.6
EV.	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

Note: all dimensions are in millimetres.

Bend relief for B series models with collet

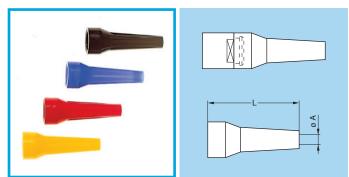


Variant (B and K series)

Bend relief for K series models with collet Need to be ordered Collet Need to be ordered Ref separately Type Code С 40 to 85 GMA.2B.... Ζ **2K** GMA.3B.... Κ 90 to 10 GMA.3B.... 40 to 10 С 3K Ζ Κ GMA.4B.... 11 to 15 **4K** Ζ С 50 to 15 GMA.4B....

Note: All dimensions are in millimetres.

GM• Bend relief



Main characteristics

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

	Dimensions (mm)				
Part number	Bend relief		Cable ø		Series
	Α	L	max.	min.	
GMA.2B.040.DG	4.0	36	4.5	4.0	2B-2K
GMA.2B.045.DG	4.5	36	5.0	4.5	2B-2K
GMA.2B.060.DG	6.0	36	6.5	6.0	2B-2K
GMA.2B.070.DG	7.0	63	7.7	7.0	2B-2K
GMA.3B.060.DG	6.0	42	6.9	6.0	3B-3K
GMA.3B.070.DG	7.0	42	7.9	7.0	3B-3K
GMA.3B.080.DG	8.0	42	8.9	8.0	3B-3K
GMA.4B.011.DG	11.0	60	11.9	11.0	4B-4K-5B
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	4B-4K-5B

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 the GRA insulating washers (see unipole-multipole catalog). Use the part numbers shown below to order this accessory separately.



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

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.

	Tools	

Extractor

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

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Note

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.

6. PRODUCT IMPROVEMENTS

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

7. 🖄 WARNING (Prop 65 State of California)

Proposition 65 requires businesses to provide warnings to Californians about significant exposures to chemicals that cause cancer, birth defects or other reproductive harm. LEMO products are exempt from proposition 65 warnings because they are manufactured, marketed, and sold solely for commercial and industrial use. For further information, please visit https://www.lemo.com/quality/LEMO-Prop-65-compliance-declaration.pdf.

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