# 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 🔊

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.



# 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



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# Model - Fluidic Contact Type

## P1 contacts





# **Recommended tubing/hose**

Series	Contact type	Diameter (mm)		Cumplian	Material	Colour	Morking to paper of the
Series		Outer ø	Inner ø	Supplier	waterial	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 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
- EHG
- ENG
- 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 and R) and cable collet Straight plug, key (G) or keys (A...F) **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 FGY
- FNG 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.



Part Number Example	FGG	2B	P12	С	L	A	D 7	2 Z 🖂	 Variant: see note 1)
Model: (see examples below)									
Series: (see examples below)									Cable ø: (page 10)
									Collet type: (page 10)
Type: (page 8)									LV contact type: (page 9)
Housing: (page 9) C = chrome-plated brass P = polysulfone									Insulator: L = PEEK

**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. <sup>1)</sup> 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			Dimer	nsions	(mm)			
Model	Series	А	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	5B	40	40.0	M35x1.0	11.0	36.5	3.0	33.5	-
EGG	5B <sup>1)</sup>	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.



LDG	TINED SOCKEL WITH Square hange,	I GG	Straight plug, key (G) of keys	FIIG	Thee source, key (a) of keys
	key (G) or keys (AF and R),		(AF and R), cable collet		(AF and R), cable collet
	four holes fixing		and nut for fitting a bend relief		and nut for fitting a bend relief
EEG	Fixed socket, nut fixing,	FXG	Fixed plug with round flange, four holes	PKG	Fixed socket, nut fixing, key (G) or keys
	key (G) or keys (AF and R)		fixing, key (G) or keys (AF and R)		(AF and R), cable collet and nut
	(back panel mounting)	PEG	Fixed socket, nut fixing, key (G) or keys		for fitting a bend relief
EGG	Fixed socket, nut fixing,		(AF and R), cable collet and nut for		-
	key (G) or keys (AF and R)		fitting a bend relief (back panel mounting)		
FGG	Straight plug, key (G) or keys	PHG	Free socket, key (G) or keys	*	Not show in this catalogue.
	(AF and R), cable collet		(AF and R), cable collet		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										_	
	FGG	ЗК	P20	С	L	z	c	76	z	$\langle$	Variant: see note 1)
Model: (see examples below)											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. <sup>1)</sup> 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	A	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	A	В	е	E	L	Μ	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

				Fluidic contact							Low Voltage contact							
						e 3)	3)	(bars)			Cor ty	itact pe	So con	der tact	Cri con	mp tact		
	≪ Male solder contacts	Female solder contacts	-	be		(see page	see page	pressure					(V rms) lct	(V rms)	(V rms) lot	(V rms)	(A)	
	Male crimp contacts	Female crimp contacts	Reference	Nb of fluidic tube	Type	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 2K			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	
21			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	_	_	_	_	-	_	_	_	-	
			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	
			P26	2	P1	3.0	1.8	6	12	0.9	•		0.95	0.85	0.90	1.20	10	
			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	ltage	conta	act			
				e 3)	(bars)				Contact type		lder itact	Cri cor	mp itact	_			
	م Male solder contacts	Female solder contacts		ec	ee bag		Ext. ø of tube (see page Int. ø of tube (see page	ee page					V rms) ct	V rms)	V rms) ct	V rms)	(A
			Reference	Reference Nb of fluidic tube		Type Ext. ø of tube (see page		Max. working pressure (bars)	Contact No	ø A (mm)	Solder	Crimp	Test voltage (kV rms) Contact-contact	st voltage (k) ntact-shell	Test voltage (kV rms) Contact-contact	Test voltage (kV rms) Contact-shell	Rated current (A)
	Male crimp contacts	Female crimp contacts	Be	qN	Type	ĔĂ	lnt.	Ma	ပိ	øA	So	Ğ	ĕ°	ĕ°	ĕ°	ĕ°	Ra
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 a	and collet nut	Latch sleeve +	earthing crown	Other metallio	c 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 <sup>2)</sup>	brass	nickel	Only for FGG and ENG (B series)
Р	PSU	-	brass/bronze	nickel 2)	brass	nickel	Only for FGY and ENY (B series) <sup>1)</sup>

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



# **Electrical Contact**

# 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			et ø	Cab	le ø	Notes	
	Туре	Code	øΑ	øВ	max.	min.	Notes	
	М	62	6.2	-	6.2	4.9	NEW	
<b>4B</b>	М	72	7.2	-	7.7	> 6.2	NEW	
	М	92	9.2	8.6	9.2	> 7.7	NEW	
	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		
<b>5B</b>	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. <sup>1)</sup> these collets cannot be used for connector models with nut for fitting a bend relief.





22.6

# C and K type collets for K series

	C type	, Ø	00:		D								
	K type oversi cable	<sub>ze</sub> C			0:02								
	Refe	rence	Col	let ø	Cab	ole ø		Refe	rence	Col	et ø	Cat	ole ø
	Туре	Code	ø A	ø B	max.	min.		Туре	Code	øΑ	ø B	max.	min.
	С	35	4.2	-	3.5	3.1		С	50	6.3	_	5.0	4.6
<b>2K</b>	С	40	4.2	-	4.0	3.6	4K	С	55	6.3	_	5.5	5.1
	С	45	5.2	-	4.5	4.1		С	60	6.3	_	6.0	5.6
	С	50	5.2	-	5.0	4.6		С	65	7.3	_	6.5	6.1
	С	55	6.2	-	5.5	5.1		С	70	7.3	_	7.0	6.6
	С	60	6.2	-	6.0	5.6		С	75	8.3	_	7.5	7.1
	С	65	7.2	-	6.5	6.1		С	80	8.3	_	8.0	7.6
	С	70	7.2	-	7.0	6.6		С	85	9.3	_	8.5	8.1
	С	75	8.2	8.2	7.5	7.1		С	90	9.3	_	9.0	8.6
	С	80	8.2	8.2	8.0	7.6		С	95	10.8	_	9.5	9.1
	С	85	9.2	8.6	8.5	8.1		С	10	10.8	_	10.5	9.6
	К	90	9.2	_	9.0	8.6		С	11	12.3	_	12.0	10.6
	K	95	10.2	10.2	9.5	9.1		С	12	13.8	13.8	12.8	12.1
	К	10	10.2	10.2	10.0	9.6		С	13	13.8	13.8	13.5	12.9
	K	11	11.2	10.6	10.5	10.1		С	14	15.3	15.3	14.0	13.6
	С	30	3.2	_	3.0	2.6		С	15	15.3	15.3	15.0	14.1
<b>3K</b>	С	35	4.2	_	3.5	3.1		K	16	17.8	-	16.5	15.6
	С	40	4.2	_	4.0	3.6		K	17	17.8	_	17.5	16.6
	С	45	5.2	_	4.5	4.1		K	18	19.8	_	18.5	17.6
	С	50	5.2	_	5.0	4.6		K	19	19.8	-	19.5	18.6
	С	55	6.2	_	5.5	5.1		K	20	21.8	-	20.5	19.6
	С	60	6.2	_	6.0	5.6		K	21	21.8	_	21.5	20.6
	С	65	7.2	_	6.5	6.1		K	22	23.8	23.8	22.5	21.6
	С	70	7.2	_	7.0	6.6		K	23	23.8	23.8	23.5	22.6
	С	75	8.2	-	7.5	7.1		С	10	11.8	_	10.5	9.6
	С	80	8.2	-	8.0	7.6	5K	С	11	11.8	-	11.5	10.6
	С	85	9.2	-	8.5	8.1		С	12	13.8	_	12.5	11.6
	С	90	9.2	-	9.0	8.6		С	13	13.8	-	13.5	12.6
	С	95	10.2	10.2	9.5	9.1		С	14	15.8	_	14.5	13.6
	С	10	10.2	10.2	10.0	9.6		С	15	15.8	_	15.5	14.6
	С	11	11.2	10.6	10.5	10.1		С	16	17.8	_	16.5	15.6
	K	11	12.3	-	12.0	10.6		С	17	17.8	_	17.5	16.6
	K	12	13.8	13.8	12.8	12.1		С	18	19.8	_	18.5	17.6
	K	13	13.8	13.8	13.5	12.9		С	19	19.8	_	19.5	18.6
	K	14	15.3	15.3	14.0	13.6		С	20	21.8	_	20.5	19.6
	K	15	15.3	15.3	15.0	14.1		С	21	21.8	-	21.5	20.6
Noter	ll dimono	ione are	in millimetr	00				С	22	23.8	23.8	22.5	21.6

Note: all dimensions are in millimetres.

Tools

С

23

23.8

23.8

23.5

## Extractor

Reference	Contact type					
DCC.91.10P.1LA	P1					
DCC.91.10P.3LA	P3					



## Bend relief for B series models with collet

			4	Need to be ordered
	ef.	Co	ollet	Need to be ordered
	Ref.	Туре	Code	separately
2B	z	D	42	GMA.2B
20	2	D	52 to 92	GMA.2B.•••.••
20	z	М	52	GMA.1B
3 <b>B</b>	2	D	62 to 10	GMA.3B.•••.••
<b>4B</b>		М	62 and 72	GMA.2B
4D	Z	М	92	GMA.4B.•••.••
		D	10 to 15	GMA.4B.•••.••
5B	z	D	11 to 15	GMA.4B

# rdered ly .... .... ... ... ... .... .... ....



# Main characteristics

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

	Dii	mensio	ons (m	m)	
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	

Variant	(B and K	series)

# Bend relief for K series models with collet

Need to be ordered

Need to be ordered

separately

GMA.2B....

GMA.3B....

GMA.3B....

GMA.4B....

GMA.4B....





## **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 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.



# **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 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.

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Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



### Как с нами связаться

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