

# MULTIPOLE CONNECTORS XB SERIES



## **XB is a new size to complete the B Series connector range**

LEMO B Series connectors are now available with a new connector size.

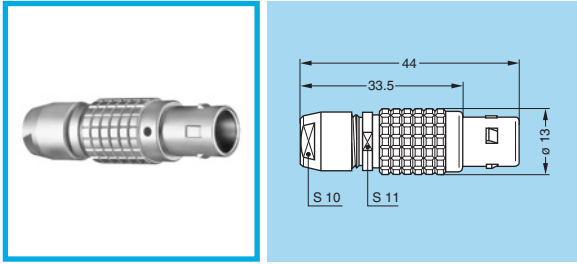
The XB Series can accommodate 12 or 22 electrical contacts. This connector is an intermediate connector size between the well known 1B and 2B Series. The market need for a compact connector resulted in this new high contact density product.

### **Features**

endurance: over 5000 mating cycles  
temperature range: -55°C to + 250°C  
protection index: IP 50 (when mated)  
360° screening for full EMC shielding  
high packing density for space savings



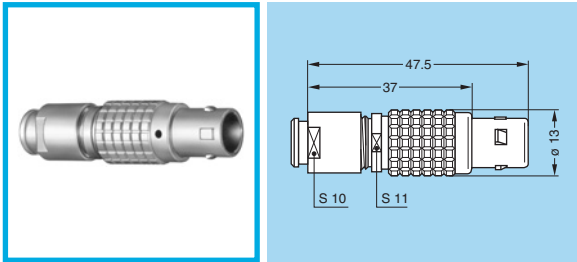
## Models



### FGG Straight plug, key (G) or keys (A and E), cable collet

Part Number	Number of contacts
FGG.XB.312.CLAD••	12
FGG.XB.322.CLAD••	22

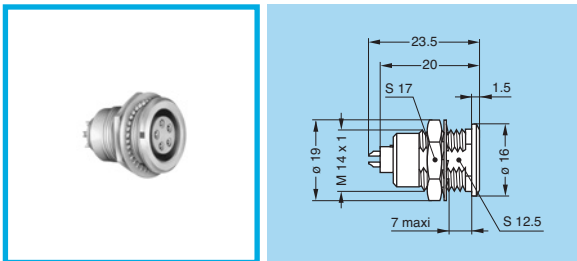
**Note:** Replace by •• collet size reference (see table).



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

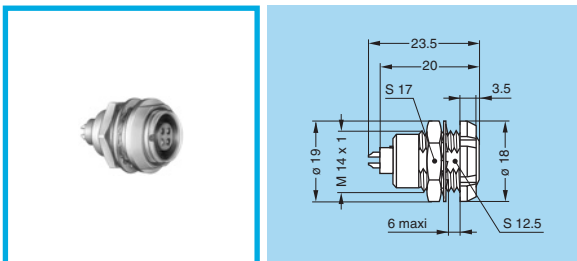
Part Number	Number of contacts
FGG.XB.312.CLAD••Z	12
FGG.XB.322.CLAD••Z	22

**Note:** Replace by •• collet size reference (see table). The bend relief must be ordered separately.



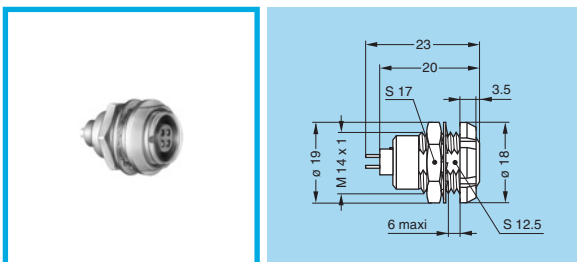
### EGG Fixed socket, key (G) or keys (A and E), nut fixing

Part Number	Number of contacts
EGG.XB.312.CLL	12
EGG.XB.322.CLL	22



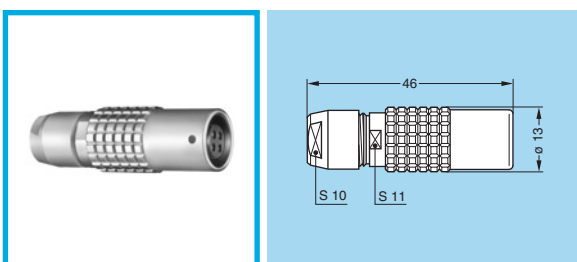
### ECG Fixed socket with two nuts, key (G) or keys (A and E) (back panel mounting)

Part Number	Number of contacts
ECG.XB.312.CLL	12
ECG.XB.322.CLL	22



### ECG Fixed socket with two nuts, key (G) or keys (A and E) and straight contact for printed circuit (back panel mounting)

Part Number	Number of contacts
ECG.XB.312.CLN	12
ECG.XB.322.CLN	22

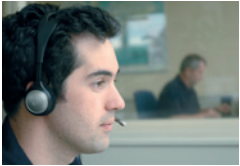


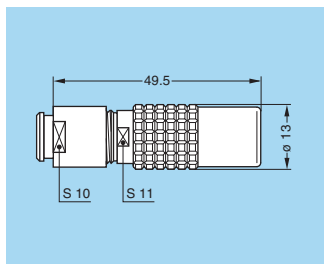
### PHG Free socket, key (G) or keys (A and E), cable collet

Part Number	Number of contacts
PHG.XB.312.CLLD••	12
PHG.XB.322.CLLD••	22

**Note:** Replace by •• collet size reference (see table).

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





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

Part Number	Number of contacts
PHG.XB.312.CLLD●●Z	12
PHG.XB.322.CLLD●●Z	22

Note: Replace by ●● collet size reference (see table). The bend relief must be ordered separately.

### Insert configuration and electrical characteristics

Reference	Number of contacts	ø A (mm)	Contact type		Solder contact		Rated current (A)
			Solder	Print (straight)	Test voltage (kV rms) Contact-contact	Test voltage (kV rms) Contact-shell	
312	12	0.7	●	●	1.35	1.65	5.00
322	22	0.5	●	●	0.50	0.90	1.50

### D type collets for XB series

Reference	Type	Collet ø		Cable ø		Nut for fitting a bend relief	Bend relief
		ø A	ø B	max.	min.		
D 52	52	5.2	7.2	5.0	4.4	FFM.1B.131.LC	GMA.1B.045.DG
D 62	62	6.2	7.2	6.0	5.4		GMA.1B.054.DG
D 72	72	7.2	7.2	7.0	6.4		GMA.1B.065.DG
D 82	82	8.2	7.2	8.0	7.4	-	-

### Contacts (solder type)

Reference	Contact		Conductor			
	ø A (mm)	ø C (mm)	Solid		Stranded	
			AWG max.	Section (mm <sup>2</sup> ) max.	AWG max.	Section (mm <sup>2</sup> ) max.
312	0.7	0.80	22	0.34	22 <sup>1)</sup>	0.34
322	0.5	0.45	28	0.09	28	0.09

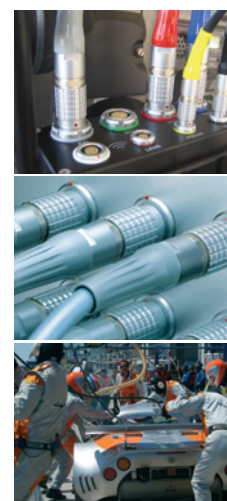
Note: 1) for a given AWG, the diameter of some stranded conductor designs is larger than the solder cup diameter. Make sure that the maximum conductor diameter is smaller than ø C.

### Alignment Key and Polarized Keying System

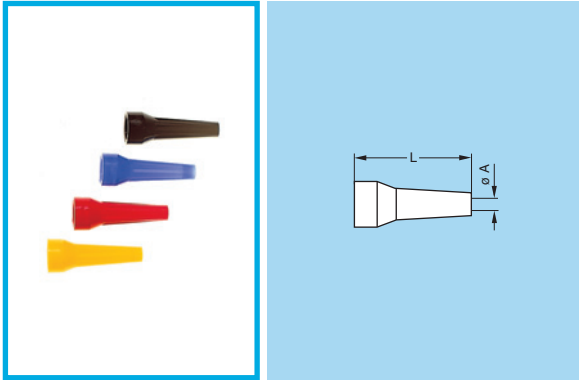
XB series connector model part numbers are composed of three letters. The LAST LETTER indicates the key position.

Reference	Nb of keys	Angles	Series XB	Contact type		Note
				Plug	Socket	
G	1		0°	male	female	●
A	2	α	30°	male	female	●
E	2	β	120°	male	female	○

● First choice alternative  
○ Special order alternative



## Accessories



### GMA Bend relief for FGG and PHG models with nut for fitting a bend relief

Part Number	Dimensions (mm)			
	Bend relief		Cable $\phi$	
	A	L	max.	min.
GMA.1B.040.DG	4.0	30	4.4	4.0
GMA.1B.045.DG	4.5	30	4.9	4.5
GMA.1B.054.DG	5.4	30	6.0	5.4
GMA.1B.065.DG	6.5	30	7.0	6.5

Ref.	Colour
A	blue
B	white
G	grey

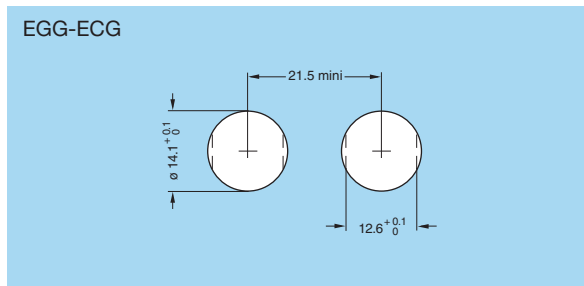
Ref.	Colour
J	yellow
M	brown
N	black

Ref.	Colour
R	red
S	orange
V	green

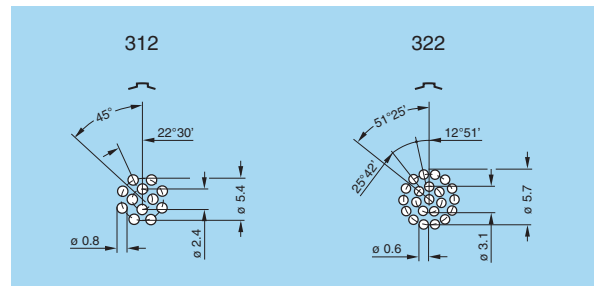
**Note:**  
Material: Polyurethane elastomer  
Temperature range in dry atmosphere: -40°C +80°C

**Note:** The last letter «G» of the part number indicates the colour grey of the bend relief. For others colour, refer to the above table and replace letter «G» by the letter of the colour required.

## Panel cut-out



## PCB drilling pattern



## Cable stripping lengths

Connector Type	Connector $\phi$ contact (mm)	Cable stripping lengths (mm)		
		Solder		
		L	S	T
312	0.7	16.5	7.5	3.5
322	0.5	17.5	8.0	4.0

## Mounting nut torque

Torque (Nm)
5.0

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

Refer to B series catalog for general characteristics

## 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

[www.lemo.com](http://www.lemo.com)



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

**Телефон:** 8 (812) 309 58 32 (многоканальный)

**Факс:** 8 (812) 320-02-42

**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.