# imall

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.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# 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**



Note: All dimensions are in millimetres.





# Insert configuration and electrical characteristics



# D type collets for XB series

Refe	rence	Coll	et ø	Cable ø		Nut for fitting a bend relief	Bend relief	
Туре	••	ø A	ø B	max.	min.	a bend relief	Bond Tonor	
D	52	5.2	7.2	5.0	4.4		GMA.1B.045.DG	
D	62	6.2	7.2	6.0	5.4	FFM.1B.131.LC	GMA.1B.054.DG	
D	72	7.2	7.2	7.0	6.4	1	GMA.1B.065.DG	
D	82	8.2	7.2	8.0	7.4	-	-	

### Contacts (solder type)

ø A _ Ø C	Reference	Contact		Conductor				
				Solid		Stranded		
		ø A (mm)	ø C (mm)	AWG max.	Section (mm <sup>2</sup> ) max.	AWG max.	Section (mm <sup>2</sup> ) max.	
	312	0.7	0.80	22	0.34	221)	0.34	
t <u> </u>	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	Angles	Series	Contact type		Note
	Nelerence	keys	, angles	XB	Plug	Socket	
	G	1		0°	male	female	•
	А	2	α	30°	male	female	•
×	E	2	β	120°	male	female	0







#### **Accessories**

|--|--|

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

			D	ons (mn					
	Part Number			Bend relief		le ø			
				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	GMA.1B.054.DG			30	6.0	5.4			
GMA	GMA.1B.065.DG			30	7.0	6.5			
Ref.	Ref. Colour		Ref.	Colour			F	Ref.	Colour
Α	blue		J	yellow				R	red
В	white		М	brow	'n			S	orange
G	grey		Ν	blac	k			V	green

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.

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

#### Panel cut-out



#### **Cable stripping lengths**

#### Mounting nut torque

 Connector	ø contact (mm)	Cal ler			
Туре		L	S	Т	
312	0.7	16.5	7.5	3.5	ĺ
 322	0.5	17.5	8.0	4.0	j

Torque (Nm) 5.0

Note: all dimensions are in millimetres.

Refer to B series catalog for general characteristics

### **LEMO** HEADQUARTERS

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CH-1024 Ecublens

#### www.lemo.com

Data subject to change, printed in Switzerland, March 2007 Updated May 2008