

## BI-METAL LONG PALM LONG BARREL LUG

Designed for CCT (Covered Conductor Thick) conductors, the CABAC range of Bi-Metal Long Palm Long Barrel Lugs are stocked in an unfinished palm length ready to be cropped and drilled to individual requirements.

The lugs feature a longer barrel length to incorporate an additional crimping position, a necessary requirement where longer palms are utilised. A range of options are available for the placing of holes in the lug palm from 1 to 3 with the palm length variable in length to suit the application.

Made from the highest quality aluminium (99.6%) and copper (99.9%), the lugs are joined using a friction welded process, producing a very strong electrically sound joint, which will not be subject to electrolysis. The barrels are chemically treated to reduce contact resistance and corrosion. They are filled with a jointing compound, which breaks the oxide layers on the aluminium.

The lugs are made to Australian dimensions and can be crimped with standard Australian tooling.



### CCT CONDUCTOR DEFINED

CCT Conductor is an aluminium stranded overhead conductor, with a grey bonded polyethylene covering. It is filled with a water blocking compound to restrict passage of water along the conductor between the strands if the outer covering is damaged. The water blocking minimises corrosion and maximises service life. The main advantage of CCT conductor is that it minimises flashover of conductors, and allows a reduction in the conductor spacing. This decreases the vegetation clearance space, and enhances the visual aspect of the line. Flashovers caused by wildlife, in particular possums, are reduced to a minimum. CCT is becoming a standard conductor system with many authorities.

CCT conductors have differing cross sections from normal conductors with nominal cross sections of 40, 80 and 180mm<sup>2</sup>.

### COMPLIANCE AND SAFETY

- AS/NZS4325 Part 1; IEC France, DIN/VDE Germany, JIS Japan, BS United Kingdom

### TECHNICAL INFORMATION

	DESCRIPTION
<b>Conductive Material</b>	Aluminium Sleeve 99.6% pure Copper Palm 99.9% pure Tensile Strength 110 MPa Ductile Rating 28% Final Metal State Fully Annealed inc. joint Joining Method Friction Welding (IEC std)
<b>Operating Temperature</b>	-40°C to 100°C
<b>General Electrical Properties</b>	Resistivity 2.6 micro-ohm cm (max): aluminium, 1.738 micro-ohm cm: copper Conductivity 61.8% IACS (min): aluminium, 99.7% IACS: copper

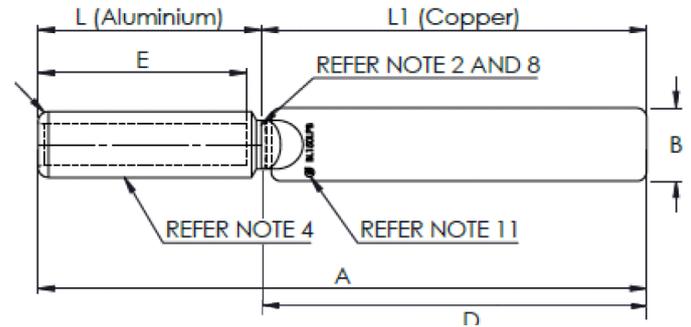
In support of our policy of continuous product improvement we reserve the right to change materials and specifications without notice. Drawings, where used, are not to scale. All dimensions are in millimetres and sizes given are approximate. Where possible, technical MSDS data sheets are made available on the website. All products should be installed and used in accordance with manufacturer's instructions provided. Warning: products may be the subject of registered designs and patents. Refer to website for terms and conditions on warranty.

## BI-METAL LONG PALM LONG BARREL LUG

### Torque Recommendations

Thread dia.(mm)	Torque (Nm)
5	5
6	9
8	22
10	44
12	77
16	190

Recommended torques for hardware should be to Australian and New Zealand Standards



### SPECIFICATIONS AND ORDERING INFORMATION

Part No.	Nom. Conductor CSA mm <sup>2</sup>	Stranding No./DIA	I.D. +0.2 -0.1	A ±2	B ±1	E ±1.5	L ±1.0	L1 ±1.0	N ±0.5	A/F HEX	Crimp Die	No. of Crimps
<b>BL400LPB</b>	40	7/2.25	9.5	191	22	32	39	152	12	13.2	HT-50/70AL	1
<b>BL80LPB</b>	80	7/3.75	13.5	246	27	85	91	155	16	17.3	HT-95/120AL	3
<b>BL1200LPB</b>	120	7/4.75	15.5		29							
<b>BL150LPB</b>	150	37/2.25	16.5		30							
<b>BL180LPB</b>	180	19/3.5	18.5	248	35			157	20	22.0	HT150/185L	
<b>BL240LPB</b>	240	19/4.01	22.0	256			95	161		28.4	HT-240/300AL	

In support of our policy of continuous product improvement we reserve the right to change materials and specifications without notice. Drawings, where used, are not to scale. All dimensions are in millimetres and sizes given are approximate. Where possible, technical MSDS data sheets are made available on the website. All products should be installed and used in accordance with manufacturer's instructions provided. Warning: products may be the subject of registered designs and patents. Refer to website for terms and conditions on warranty.