

BI-METAL LUG 185MM2-STD10MM

Part Number: BL185-10



Features

- Manufactured using friction welding process producing a very strong electrically sound joint
- Suitable for aluminium conductor and copper terminals or busbar
- Crimp from palm end to force compound into conductor strands
- Crimping compound in barrel and sealed with cap
- Crimping positions, AF, clearly marked on barrel

Bi-Metal Lug

Designed for Stranded Sector and Circular Stranded Aluminium Conductors, the CABAC range of Bi-Metal Lugs is made from the highest quality aluminium (99.6%) and copper (99.9%) and are joined using a friction welding process. This produces a very strong electrically sound joint, which will not be subject to electrolysis. The barrel is chemically treated to reduce contact resistance and corrosion and is filled with a jointing compound, which breaks the oxide layers on the aluminium.

When crimping the lug should be crimped from the palm end first, to force the joint compound

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.

into conductor strands. They are designed to be crimped using standard Australian tooling, using normal aluminium hexagonal dies.

Standards and Compliance

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

Technical Information

Conductive Material 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) Dimensional Specification Tooling is interchangeable between CABAC, Utilux and Burndy

Electrical Properties Resistivity 2.6 micro-ohm cm (max): aluminium 1.738 micro-ohm cm: copper Conductivity 61.8% IACS (min): aluminium 99.7% IACS: copper Operating Temperature - 40°C to 100°C Torque Recommendations Recommended torques for hardware should be to Australian and New Zealand Standards

Thread dia.(mm) Torque (Nm)

55

69

822

1044

1277

16190

Ordering Information

Line drawings and recommended tooling details are available. See Brochures under Product Resources and select the latest Catalogue.

Part No. Nominal Conductor (mm²) Stud Size

BL1616 Blank

BL25-102510

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.

BL25-122512

BL35-103510

BL35-123512

BL50-105010

BL50-125012

BL70-107010

BL70-127012

BL95-109510

BL95-129512

BL120-1012010

BL120-1212012

BL150-1015010

BL150-1215012

BL185-1018510

BL185-1218512

BL240-1024010

BL240-1224012

BL300-1030010

BL300-1230012

BL300300Blank

BL400400Blank

BL500500Blank

BL630630Blank

BL800800Blank

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.

BL10001000Blank

Additional Information

Certificate of Standards Conformity

[Download Certificate of Standards Conformity](#)

Heat Cycle

[Download Heat Cycle](#)

Tension

[Download Tension](#)

Line Drawing

[Download Line Drawing](#)

Brochures

[Download Brochures](#)

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.