

BI-METAL CRIMPS

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



COMPLIANCE AND SAFETY

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

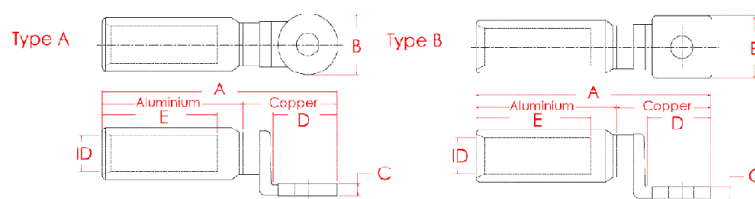
TECHNICAL INFORMATION

| | DESCRIPTION |
|--------------------------------------|---|
| 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) |
| Operating Temperature | -40°C to 100°C |
| General 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 |
| Dimensional Specification | Tooling is interchangeable between CABAC, Utilux and Burndy |

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



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SPECIFICATIONS AND ORDERING INFORMATION

| Part No. | Nominal Conductor (mm ²) | Stranding No. | ID Size | Stud Size | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | A/F Hex Die (mm) | No. Crimps | Crimp Die | Type | Palm Style | Unit | Qty |
|----------|--------------------------------------|---------------|---------|-----------|--------|--------|--------|--------|--------|------------------|----------------|-----------------|--------|-----------------|------|-----|
| BL16 | 16 | 7/1.04 | 5.5 | - | 75 | 20 | 4 | 22 | 20 | 9 | 1 | HT-6/35AL | A | ROUND | EA | 1 |
| BL25-10 | 25 | 19/1.35 | 7.5 | 10 | 75 | 20 | 4 | 22 | 20 | 9 | 1 | HT-6/35AL | A | ROUND | EA | 1 |
| BL25-12 | 25 | 19/1.35 | 7.5 | 12 | 75 | 20 | 4 | 22 | 20 | 9 | 1 | HT-6/35AL | A | ROUND | EA | 1 |
| BL35-10 | 35 | 19/1.53 | 8.5 | 10 | 75 | 20 | 4 | 22 | 20 | 9 | 1 | HT-6/35AL | A | ROUND | EA | 1 |
| BL35-12 | 35 | 19/1.53 | 8.5 | 12 | 75 | 20 | 4 | 22 | 20 | 9 | 1 | HT-6/35AL | A | ROUND | EA | 1 |
| BL50-10 | 50 | 19/1.78 | 9.5 | 10 | 75 | 24 | 5 | 26.5 | 24 | 13.2 | 1 | HT-50/70AL | A | ROUND | EA | 1 |
| BL50-12 | 50 | 19/1.78 | 9.5 | 12 | 75 | 24 | 5 | 26.5 | 24 | 13.2 | 1 | HT-50/70AL | A | ROUND | EA | 1 |
| BL70-10 | 70 | 19/2.14 | 11.5 | 10 | 75 | 24 | 5 | 26.5 | 24 | 13.2 | 1 | HT-50/70AL | A | ROUND | EA | 1 |
| BL70-12 | 70 | 19/2.14 | 11.5 | 12 | 75 | 24 | 5 | 26.5 | 24 | 13.2 | 1 | HT-50/70AL | A | ROUND | EA | 1 |
| BL95-10 | 95 | 37/1.78 | 13.5 | 10 | 115 | 24 | 5 | 26.5 | 24 | 17.3 | 2 | HT-95/120AL | A | ROUND | EA | 1 |
| BL95-12 | 95 | 37/1.78 | 13.5 | 12 | 115 | 24 | 5 | 26.5 | 24 | 17.3 | 2 | HT-95/120AL | A | ROUND | EA | 1 |
| BL120-10 | 120 | 37/2.03 | 15.5 | 10 | 115 | 30 | 6 | 32.5 | 30 | 17.3 | 2 | HT-95/120AL | A | ROUND | EA | 1 |
| BL120-12 | 120 | 37/2.03 | 15.5 | 12 | 115 | 30 | 6 | 32.5 | 30 | 17.3 | 2 | HT-95/120AL | A | ROUND | EA | 1 |
| BL150-10 | 150 | 37/2.25 | 16.5 | 10 | 120 | 30 | 6 | 32.5 | 30 | 22 | 2 | HT-150/185AL | A | ROUND | EA | 1 |
| BL150-12 | 150 | 37/2.25 | 16.5 | 12 | 120 | 30 | 6 | 32.5 | 30 | 22 | 2 | HT-150/185AL | A | ROUND | EA | 1 |
| BL185-10 | 185 | 37/2.52 | 18.5 | 10 | 120 | 35 | 7 | 37 | 35 | 22 | 2 | HT-150/185AL | A | ROUND | EA | 1 |
| BL185-12 | 185 | 37/2.52 | 18.5 | 12 | 120 | 35 | 7 | 37 | 35 | 22 | 2 | HT-150/185AL | A | ROUND | EA | 1 |
| BL240-10 | 240 | 61/2.25 | 22 | 10 | 135 | 35 | 7 | 37 | 35 | 28.4 | 2 | HT-240/300AL | A | ROUND | EA | 1 |
| BL240-12 | 240 | 61/2.25 | 22 | 12 | 135 | 35 | 7 | 37 | 35 | 28.4 | 2 | HT-240/300AL | A | ROUND | EA | 1 |
| BL300 | 300 | 61/2.52 | 23.5 | - | 135 | 36 | 7.5 | 38 | 36 | 28.4 | 2 | HT-240/300AL | A | ROUND | EA | 1 |
| BL300-10 | 300 | 61/2.52 | 23.5 | 10 | 135 | 36 | 7.5 | 38 | 36 | 28.4 | 2 | HT-240/300AL | A | ROUND | EA | 1 |
| BL300-12 | 300 | 61/2.52 | 23.5 | 12 | 135 | 36 | 7.5 | 38 | 36 | 28.4 | 2 | HT-240/300AL | A | ROUND | EA | 1 |
| BL400 | 400 | 61/2.85 | 26.5 | - | 160 | 50 | 10.5 | 53 | 50 | 39 | 2 | ECW-H3D-4/500AL | B | SQUARE | EA | 1 |
| BL400-10 | 400 | 61/2.85 | 26.5 | 10 | 160 | 50 | 10.5 | 53 | 50 | 39 | 2 | ECW-H3D-4/500AL | B | SQUARE | EA | 1 |
| BL400-12 | 400 | 61/2.85 | 26.5 | 12 | 160 | 50 | 10.5 | 53 | 50 | 39 | 2 | ECW-H3D-4/500AL | B | SQUARE | EA | 1 |
| BL500 | 500 | 61/3.20 | 30 | - | 160 | 50 | 10.5 | 53 | 50 | 39 | 2 | ECW-H3D-4/500AL | B | SQUARE | EA | 1 |
| BL500-10 | 500 | 61/3.20 | 30 | 10 | 160 | 50 | 10.5 | 53 | 50 | 39 | 2 | ECW-H3D-4/500AL | B | SQUARE | EA | 1 |
| BL500-12 | 500 | 61/3.20 | 30 | 12 | 160 | 50 | 10.5 | 53 | 50 | 39 | 2 | ECW-H3D-4/500AL | B | SQUARE | EA | 1 |
| BL500-16 | 500 | 61/3.20 | 30 | 16 | 160 | 50 | 10.5 | 53 | 50 | 39 | 2 | ECW-H3D-4/500AL | B | SQUARE | EA | 1 |
| BL630 | 630 | 127/2.52 | 34 | - | 175 | 60 | 10.5 | 65 | 60 | 43.2 | 2 | RHU520-800 | B | SQUARE | EA | 1 |
| BL630-12 | 630 | 127/2.52 | 34 | 12 | 175 | 60 | 10.5 | 65 | 60 | 43.2 | 2 | RHU520-800 | B | SQUARE | EA | 1 |
| BL800 | 800 | 127/2.85 | 39 | - | 230 | 50 | 10.5 | 65 | 50 | 43.2 | 4 SIDE BY SIDE | RHU520-800 | A OR B | SQUARE OR ROUND | EA | 1 |

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