

# Mechanical Bimetal Lug for Aluminum to Copper Connection

This mechanical bimetal lug is designed for connecting aluminum cables to copper busbars or equipment terminals. The lug features a mechanical connection, eliminating the need for crimping tools and providing a reliable transition between aluminum and copper.



## ADDITIONAL IMAGES



## Product Overview

### Mechanical Bimetal Lug

The JTLL series mechanical bimetal lug is engineered for the transition connection of aluminum or aluminum alloy cables to copper terminals in low-voltage electrical equipment. Featuring a high-strength aluminum alloy body and friction-welded construction, these lugs ensure stable performance and prevent galvanic corrosion. Designed for ease of use, they eliminate the need for specialized crimping tools, requiring only a standard wrench for installation.

## Technical Details

Material Composition	High Strength Aluminum Alloy, Copper (Cue99.9%)
Compliance Standard	IEC 61238-1: 2003

## Key Features

### Installation Benefits

- No crimping tools required; use socket spanner or wrench
- Torque-controlled shear head bolts prevent conductor damage
- Prefilled with jointing compound
- Friction welded for superior connection

## Specifications Table

Type	Conductor Size (mm <sup>2</sup> )	Outer Diameter (mm)	Number of Bolts	Shear-off Torque (Nm)	Wrench Size	Pack(pcs)
JTLL10-35-8/1	10-35	16	1	8	9	125x4
JTLL10-35-10/1		16	1	8	9	125x4
JTLL25-50-8/1	25-50	18	1	10	10	100x4
JTLL25-50-10/1		18	1	10	10	100x4
JTLL50-95-8/1	50-95	22	1	22	13	70x4
JTLL50-95-10/1		22	1	22	13	70x4
JTLL120-185-10/1	120-185	30	1	40	17	35x4
JTLL120-185-12/1		30	1	40	17	35x4
JTLL240-300-10/2	240-300	36	2	55	22	16x4
JTLL240-300-12/2		36	2	55	22	16x4

Technical specifications and sizing chart for the JTLL series mechanical bimetal lugs.

### Technical Specifications

Type	Conductor Size (mm <sup>2</sup> )	Outer Diameter (mm)	Bolts	Shear Torque (Nm)
JTLL10-35	10-35	16	1	8
JTLL25-50	25-50	18	1	10
JTLL50-95	50-95	22	1	22
JTLL120-185	120-185	30	1	40
JTLL240-300	240-300	36	2	55