

Mechanical Bimetallic Lug

This mechanical bimetallic lug facilitates transition connections between aluminum cables and copper ends of electrical equipment in low voltage systems. It utilizes torque-controlled shear head bolts and friction welding to ensure stable connectivity.



Product Overview

Mechanical Bimetallic Lug

This mechanical bimetallic lug is designed for the transition connection of aluminum or aluminum alloy cables to copper terminals in low-voltage electrical equipment. It features a robust, friction-welded design that eliminates the need for specialized crimping tools, utilizing torque-controlled shear head bolts for a stable, damage-free connection. Prefilled with jointing compound, this component offers a versatile and reliable solution for electrical power transmission and distribution.

Technical Specifications

Type	Conductor Size (mm ²)	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

Detailed technical specifications including conductor sizes, torque requirements, and bolt configurations.

Standards

IEC 61238-1: 2003

Key Features

- No crimping tools required; uses socket spanner or wrench
- Torque-controlled shear head bolts prevent conductor damage
- Friction welded construction
- Prefilled with jointing compound
- Wide application range

Technical Data Table

Model Type	Conductor Size (mm ²)	Outer Diameter (mm)	Bolts	Shear Torque (Nm)
JTLL10-35-8/1	10-35	16	1	8
JTLL10-35-10/1	10-35	16	1	8
JTLL25-50-8/1	25-50	18	1	10
JTLL25-50-10/1	25-50	18	1	10
JTLL50-95-8/1	50-95	22	1	22
JTLL50-95-10/1	50-95	22	1	22
JTLL120-185-10/1	120-185	30	1	40
JTLL120-185-12/1	120-185	30	1	40
JTLL240-300-10/2	240-300	36	2	55
JTLL240-300-12/2	240-300	36	2	55

Material Composition

High strength aluminum alloy, Copper (e99.9%), Aluminum alloy bolts