

Mechanical Bimetal Lug

Mechanical bimetal lugs facilitate transition connections between aluminum cables and copper ends of electrical equipment. The torque-controlled shear head bolts ensure stable working performance without conductor damage.



Overview

Mechanical Bimetal Lug

The DTLL series mechanical bimetal lug is designed for the transition connection of aluminum or aluminum alloy cables to copper equipment terminals in medium voltage applications. These lugs feature friction-welded construction and are prefilled with jointing compound to ensure optimal conductivity and corrosion resistance. Engineered for efficiency, they utilize torque-controlled shear head bolts, eliminating the need for specialized crimping tools during installation.

Technical Specifications

Type	Conductor Size (mm ²)	Outer Diameter (mm)	Number of Bolts	Shear-off Torque (Nm)	Wrench Size	Pack(pcs)
DTLL25-95-12/1	25-95	24	1	17	13	40x4
DTLL35-150-12/1	35-150	28	1	31	17	30x4
DTLL35-150-16/1		28	1	31	17	30x4
DTLL35-150-12/2		28	2	31	17	20x4
DTLL35-150-16/2		28	2	31	17	20x4
DTLL70-240-12/2	70-240	33	2	36	19	12x4
DTLL70-240-16/2		33	2	36	19	12x4
DTLL120-300-12/2	120-300	38	2	40	22	9x4
DTLL120-300-16/2		38	2	40	22	9x4
DTLL185-400-12/3	185-400	42	3	43	22	7x4
DTLL185-400-16/3		42	3	43	22	7x4
DTLL300-630-12/3	300-630	52	3	56	24	4x4
DTLL300-630-16/3		52	3	56	24	4x4

Technical data table showing available configurations for different conductor sizes and bolt specifications.

Installation Features

- No crimping tools required
- Compatible with socket spanner or wrench
- Torque-controlled shear head bolts
- Prefilled with jointing compound

Model Specifications

Type	Conductor Size (mm ²)	Bolts	Shear-off Torque (Nm)
DTLL25-95-12/1	25-95	1	17
DTLL35-150-12/1	35-150	1	31
DTLL70-240-12/2	70-240	2	36
DTLL120-300-12/2	120-300	2	40
DTLL185-400-12/3	185-400	3	43
DTLL300-630-12/3	300-630	3	56

Material Composition

High Strength Aluminum Alloy, Copper (e99.9%)

Standard

IEC 61238-1:2003