

Bimetallic Lug Connector

This bimetallic lug facilitates the connection of aluminum cables to copper ends in low-voltage electrical equipment. It features a friction-welded structure and a narrow palm design, making it suitable for equipment with limited contact space.



ADDITIONAL IMAGES



Overview

High-Performance Bimetallic Connection

The CALB-N series bimetal lugs are engineered for reliable transition connections between aluminum or aluminum alloy cables and copper electrical equipment terminals. Featuring a friction-welded construction, these lugs ensure a robust mechanical and electrical bond while preventing galvanic corrosion between dissimilar metals. The narrow palm design is specifically optimized for space-constrained installations such as MCCB and motor connections.

Key Features

Design Features

- Oil blocking structure to prevent leakage
- Friction welded joint for superior conductivity
- Narrow palm design for tight spaces
- Clear barrel markings for precise crimping
- Prefilled with jointing compound to prevent oxidation

Material Specifications

Material Purity

99.5 %

Aluminum Purity

99.9 %

Copper Purity

Compliance & Standards

Industry Standards

IEC61238-1:2003

Technical Specifications

Type	Conductor Size (mm ²)	Dimensions				Stud size	Pack(pcs)	Crimping Die
		L(mm)	d(mm)	D(mm)	B(mm)			
CALB-10N-8	10	54	4.5	12.5	14	M8	120X8	MLA10~35
CALB-16N-8	16	54	5.5	12.5	14	M8	120X8	MLA10~35
CALB-25N-8	25	54	7	12.5	14	M8	120X8	MLA10~35
CALB-35N-8	35	54	8	12.5	14	M8	120X8	MLA10~35
CALB-50N-8	50	59	9	15	16	M8	60X8	MLA50
CALB-50N-10		59	9	15	16	M10		
CALB-70N-8	70	59	11	17.5	16	M8	60X8	MLA70
CALB-70N-10		59	11	17.5	16	M10		
CALB-95N-10	95	65	12.5	21	20	M10	80X4	MLA95~120
CALB-95N-12		65	12.5	21	20	M12		
CALB-120N-10	120	65	13.7	21	20	M10	80x4	MLA95~120
CALB-120N-12		65	13.7	21	20	M12		
CALB-150N-10	150	75.5	15.5	28	25	M10	40x4	MLA150~240
CALB-150N-12		75.5	15.5	28	25	M12		

Detailed dimensions and crimping die compatibility for conductor sizes 10mm² to 150mm².

CALB-185N-10	185	75.5	17	28	25	M10	40x4	MLA150~240
CALB-185N-12		75.5	17	28	25	M12		
CALB-240N-10	240	75.5	19.5	28	25	M10	40x4	MLA150~240
CALB-240N-12		75.5	19.5	28	25	M12		
CALB-300N-12	300	94	22	32	30	M12	25x4	MLA300
CALB-300N-16		92	22	32	30	M16		
CALB-400N-12	400	100	25.1	36	30	M12	20x4	MLA400
CALB-400N-16		98	25.1	36	30	M16		

Specifications for larger conductor sizes ranging from 185mm² to 400mm².

Small to Medium Range Specifications

Type	Conductor Size (mm ²)	Stud Size	Crimping Die
CALB-10N-8	10	M8	MLA10~35
CALB-25N-8	25	M8	MLA10~35
CALB-50N-10	50	M10	MLA50
CALB-95N-12	95	M12	MLA95~120
CALB-120N-12	120	M12	MLA95~120
CALB-150N-12	150	M12	MLA150~240

Large Range Specifications

Type	Conductor Size (mm ²)	Stud Size	Palm Width (mm)
CALB-185N-12	185	M12	25
CALB-240N-12	240	M12	25
CALB-300N-16	300	M16	30
CALB-400N-16	400	M16	30

Application

Primary Application

Transition connection of aluminium or aluminium alloy cables to copper terminals in low voltage systems.