

# Bimetallic Lug Connector

These bimetallic lugs facilitate transition connections between aluminum cable and copper ends of electrical equipment. They feature prefilled jointing compound and clear markings for correct crimping.



## Product Overview

### High-Performance Bimetallic Termination

The CAL-BS Bimetallic Lug Connector is engineered for the transition connection between aluminum or aluminum alloy cables and copper electrical equipment in medium voltage applications. Featuring a friction-welded construction, these lugs ensure a reliable electrical and mechanical bond between the aluminum barrel and copper palm, effectively preventing galvanic corrosion. The oil-blocking structure and prefilled jointing compound enhance long-term performance and protection in demanding power distribution environments.

## Technical Features

### Key Features

- Oil blocking structure for enhanced reliability
- Friction welded for superior mechanical strength
- Clear markings on barrel for precise crimping location
- Prefilled with jointing compound to prevent oxidation
- Designed for transition between dissimilar metals

## Material Specifications

### Material Composition

**99.5 %**

Aluminum Purity (Al)

**99.9 %**

Copper Purity (Cu)

## Standards & Compliance

### Standard

IEC61238-1:2003

## Sizing & Dimensions

Type	Conductor Size (mm²)	Dimensions			Stud Size	Pack Qty	Crimping Die	
		Length	Width	Height			Die	Indent
CAL-10BS	10	69	4.5	16	M8	600	ML10-15	MLKA10-15
CAL-35BS	35	69	8	16	M10	600	ML35-15	MLKA35-15
CAL-70BS	70	76	10.9	20	M12	600	ML70-15	MLKA70-15
CAL-120BS	120	95	13.7	25	M16	400	ML120-10	MLKA120-10
CAL-240BS	240	115	19.5	32	M18	250	ML240-06	MLKA240-06

Detailed dimensions and crimping die requirements for small to medium conductor sizes.

Type	Conductor Size (mm²)	Length (mm)	Width (mm)	Height (mm)	Stud Size	Pack Qty	Crimping Die
CAL-120BS	120	95	13.7	25	M16	400	ML120-10
CAL-150BS	150	95	15.5	30	M16	400	ML150-10
CAL-180BS	180	95	17.3	35	M16	400	ML180-10
CAL-210BS	210	95	19.1	40	M16	400	ML210-10

Dimensional data for medium-range cable connectors.

Type	Conductor Size (mm²)	Length (mm)	Width (mm)	Height (mm)	Stud Size	Pack Qty	Crimping Die
CAL-280BS	280	135	23.2	43	M18	250	ML280-06
CAL-350BS	350	135	25.0	50	M18	250	ML350-06
CAL-420BS	420	135	26.8	57	M18	250	ML420-06
CAL-490BS	490	135	28.6	64	M18	250	ML490-06
CAL-560BS	560	135	30.4	71	M18	250	ML560-06

Specifications for high-capacity connectors including stud sizes and pack quantities.

Type	Conductor Size (mm²)	Length (mm)	Width (mm)	Height (mm)	Stud Size	Pack Qty	Crimping Die
CAL-630BS	630	135	32.2	78	M18	250	ML630-06
CAL-700BS	700	135	34.0	85	M18	250	ML700-06
CAL-770BS	770	135	35.8	92	M18	250	ML770-06
CAL-840BS	840	135	37.6	99	M18	250	ML840-06
CAL-910BS	910	135	39.4	106	M18	250	ML910-06

Technical parameters for industrial-scale cable terminations.

### Small to Medium Lug Dimensions

Type	Conductor (mm²)	L (mm)	d (mm)	D (mm)
CAL-10BS	10	69	4.5	16
CAL-35BS	35	69	8	16
CAL-70BS	70	76	10.9	20
CAL-120BS	120	95	13.7	25
CAL-240BS	240	115	19.5	32

Conductor Size Range

10mm<sup>2</sup> to 1000mm<sup>2</sup>

Available Stud Sizes

M8, M10, M12, M14, M16, M18, M20

## Installation

### Compatible Die Series

- ML series (Hex)
- MLKA series (Indent)

### Recommended Crimping

Hexagonal Crimping, Indent Crimping