

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	Packaging	Crimping Die	
		Length	Width	Height			Die Size	Die Type
CAL-10BS	10	69	4.5	16	M8	608	M10-15	MLKA-15
CAL-35BS	35	69	8	16	M10	608	M10-15	MLKA-15
CAL-70BS	70	76	10.9	20	M12	608	M10-15	MLKA-15
CAL-120BS	120	95	13.7	25	M16	608	M10-15	MLKA-15
CAL-240BS	240	99.5	19.5	32	M18	608	M10-15	MLKA-15

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

Type	Conductor Size (mm²)	Length (mm)	Width (mm)	Height (mm)	Stud Size	Packaging	Crimping Die
CAL-120BS	120	95	13.7	25	M16	404	MLCA-10
CAL-150BS	150	95	15.5	25	M16	404	MLCA-10
CAL-180BS	180	95	17.3	25	M16	404	MLCA-10
CAL-210BS	210	95	19.1	25	M16	404	MLCA-10

Dimensional data for medium-range cable connectors.

Type	Conductor Size (mm²)	Length (mm)	Width (mm)	Height (mm)	Stud Size	Packaging	Crimping Die
CAL-180BS	180	99.5	17	32	M18	254	MLCA-26
CAL-210BS	210	99.5	18.8	32	M18	254	MLCA-26
CAL-240BS	240	99.5	20.6	32	M18	254	MLCA-26
CAL-270BS	270	99.5	22.4	32	M18	254	MLCA-26
CAL-300BS	300	117.5	24.2	40	M18	124	MLCA-40
CAL-330BS	330	117.5	26	40	M18	124	MLCA-40
CAL-360BS	360	117.5	27.8	40	M18	124	MLCA-40
CAL-390BS	390	117.5	29.6	40	M18	124	MLCA-40
CAL-420BS	420	117.5	31.4	40	M18	124	MLCA-40
CAL-450BS	450	117.5	33.2	40	M18	124	MLCA-40
CAL-480BS	480	117.5	35	40	M18	124	MLCA-40
CAL-510BS	510	140	36.8	47	M20	64	MLCA-63
CAL-540BS	540	140	38.6	47	M20	64	MLCA-63
CAL-570BS	570	140	40.4	47	M20	64	MLCA-63
CAL-600BS	600	140	42.2	47	M20	64	MLCA-63

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

Type	Conductor Size (mm²)	Length (mm)	Width (mm)	Height (mm)	Stud Size	Packaging	Crimping Die
CAL-630BS	630	163	43.8	54	M20	64	MLCA-63
CAL-660BS	660	163	45.6	54	M20	64	MLCA-63
CAL-690BS	690	163	47.4	54	M20	64	MLCA-63
CAL-720BS	720	163	49.2	54	M20	64	MLCA-63
CAL-750BS	750	163	51	54	M20	64	MLCA-63
CAL-780BS	780	163	52.8	54	M20	64	MLCA-63
CAL-810BS	810	163	54.6	54	M20	64	MLCA-63
CAL-840BS	840	163	56.4	54	M20	64	MLCA-63
CAL-870BS	870	163	58.2	54	M20	64	MLCA-63
CAL-900BS	900	163	60	54	M20	64	MLCA-63
CAL-930BS	930	163	61.8	54	M20	64	MLCA-63
CAL-960BS	960	163	63.6	54	M20	64	MLCA-63
CAL-990BS	990	163	65.4	54	M20	64	MLCA-63
CAL-1020BS	1020	163	67.2	54	M20	64	MLCA-63
CAL-1050BS	1050	163	69	54	M20	64	MLCA-63
CAL-1080BS	1080	163	70.8	54	M20	64	MLCA-63
CAL-1110BS	1110	163	72.6	54	M20	64	MLCA-63
CAL-1140BS	1140	163	74.4	54	M20	64	MLCA-63
CAL-1170BS	1170	163	76.2	54	M20	64	MLCA-63
CAL-1200BS	1200	163	78	54	M20	64	MLCA-63

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	99.5	19.5	32

Conductor Size Range

10mm² to 1000mm²

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