

Bimetallic Lug Connector

These bimetallic lugs are designed with an oil-blocking structure. They are friction welded for enhanced durability and conductivity.



Product Overview

High-Performance Bimetallic Connection

The CAL-A Bimetal Lug is engineered for transition connections between aluminum or aluminum alloy cables and copper terminals of electrical equipment in medium voltage applications. Featuring a friction-welded construction, it ensures a robust mechanical and electrical bond between the high-purity aluminum barrel and the copper palm. The oil-blocking structure and pre-filled jointing compound provide long-term reliability and protection against corrosion in demanding environments.

Material & Construction

Material Purity

99.5 %

Aluminum Purity

99.9 %

Copper Purity

Manufacturing Process

Friction Welded • Oil Blocking Structure • Prefilled with Jointing Compound

Technical Specifications

Application Range	Medium voltage transition connections for Al/Al-alloy cables to copper ends.
Conductor Size Range	16 mm ² to 630 mm ²
Compatible Stud Sizes	M8, M10, M12, M14, M16, M20

Dimensional Data

Type	Conductor Size (mm²)	Dimensions			Stud Size	Pack(s)
		Length	Width	Height		
CAL-16A-R	16	71	5.8	16	M8	70x4
CAL-16A-L	16	71	5.8	16	M10	70x4
CAL-35A-R	35	71	8.2	16	M8	70x4
CAL-35A-L	35	71	8.2	16	M10	70x4
CAL-70A-R	70	78	11.2	24	M8	40x4
CAL-70A-L	70	78	11.2	24	M10	40x4
CAL-95A-R	95	78	12.7	24	M8	40x4
CAL-95A-L	95	78	12.7	24	M10	40x4

Type	Conductor Size (mm²)	Dimensions			Stud Size	Pack(s)
		Length	Width	Height		
CAL-120A-R	120	101	13.9	25	M10	40x4
CAL-120A-L	120	101	13.9	25	M12	40x4
CAL-240A-R	240	101	13.9	25	M14	40x4
CAL-240A-L	240	101	13.9	25	M16	40x4
CAL-400A-R	400	112	15.7	25	M16	40x4
CAL-400A-L	400	112	15.7	25	M18	40x4
CAL-630A-R	630	157.5	25	30	M20	40x4
CAL-630A-L	630	157.5	25	30	M22	40x4

Type	Conductor Size (mm²)	Dimensions			Stud Size	Pack(s)
		Length	Width	Height		
CAL-300A-R	300	107.5	17.5	32	M16	25x4
CAL-300A-L	300	107.5	17.5	32	M18	25x4
CAL-350A-R	350	107.5	17.5	32	M18	25x4
CAL-350A-L	350	107.5	17.5	32	M20	25x4
CAL-450A-R	450	112	20.5	34	M18	16x4
CAL-450A-L	450	112	20.5	34	M20	16x4
CAL-500A-R	500	112	20.5	34	M20	16x4
CAL-500A-L	500	112	20.5	34	M22	16x4
CAL-600A-R	600	157.5	32.5	47	M20	16x4
CAL-600A-L	600	157.5	32.5	47	M22	16x4

Type	Conductor Size (mm²)	Dimensions			Stud Size	Pack(s)
		Length	Width	Height		
CAL-500A-L0	500	140	29	41	M20	12x4
CAL-500A-L1	500	140	29	41	M12	12x4
CAL-500A-L2	500	140	29	41	M16	12x4
CAL-500A-L3	500	140	29	41	M20	12x4
CAL-630A-L0	630	157.5	32.5	47	M16	16x4
CAL-630A-L1	630	157.5	32.5	47	M20	16x4

Dimensions (16mm² - 95mm²)

Type	Conductor (mm²)	L (mm)	d (mm)	Stud Size
CAL-16A	16	71	5.8	M8-M12
CAL-35A	35	71	8.2	M8-M12
CAL-70A	70	78	11.2	M8-M14
CAL-95A	95	78	12.7	M10-M14

Dimensions (120mm² - 630mm²)

Type	Conductor (mm²)	L (mm)	D (mm)	Stud Size
CAL-120A	120	101	25	M10-M14
CAL-240A	240	107.5	32	M10-M16
CAL-400A	400	112	40	M10-M16
CAL-630A	630	157.5	47	M16-M20