

Bimetallic Lug Connector

These bimetallic lugs are used for transition connections between aluminum or aluminum alloy cables and the copper ends of electrical equipment in low voltage applications. They feature an oil blocking structure and are friction welded and prefilled with jointing compound.



Product Overview

Bimetallic Lug Connector

The CAL-A Bimetallic Lug Connector is specifically engineered for the transition connection of aluminum or aluminum alloy cables to copper equipment terminals in low-voltage electrical systems. Utilizing a friction-welded construction, these connectors ensure a robust, reliable interface between dissimilar metals, minimizing resistance and preventing corrosion. Each unit is prefilled with jointing compound and incorporates an oil-blocking structure, making it an ideal solution for substations, switchgear, and critical power distribution installations.

Material & Construction

Material Composition

99.5 %

Aluminum Purity

99.9 %

Copper Purity

Key Features

Oil blocking structure • Friction welded • Prefilled with jointing compound

Technical Specifications

Type	Conductor Size (mm²)	Dimensions				Stud Size	Pack(s)
		Length	Width	Height	Radius		
CAL-10A-8	16	71	1.8	14	20	M8	70x4
CAL-10A-10	25	71	1.8	14	20	M10	70x4
CAL-10A-12	35	71	1.8	14	20	M12	70x4
CAL-10A-14	50	71	1.8	14	20	M14	70x4
CAL-10A-16	70	71	1.8	14	20	M16	70x4
CAL-10A-18	95	71	1.8	14	20	M18	70x4
CAL-10A-20	120	71	1.8	14	20	M20	70x4
CAL-10A-25	150	71	1.8	14	20	M25	70x4
CAL-10A-30	185	71	1.8	14	20	M30	70x4
CAL-10A-35	220	71	1.8	14	20	M35	70x4
CAL-10A-40	270	71	1.8	14	20	M40	70x4
CAL-10A-45	320	71	1.8	14	20	M45	70x4
CAL-10A-50	385	71	1.8	14	20	M50	70x4
CAL-10A-55	450	71	1.8	14	20	M55	70x4
CAL-10A-60	520	71	1.8	14	20	M60	70x4
CAL-10A-65	600	71	1.8	14	20	M65	70x4
CAL-10A-70	690	71	1.8	14	20	M70	70x4

Technical dimensions and specifications for smaller conductor sizes ranging from 16mm² to 95mm².

Type	Conductor Size (mm²)	Length (mm)	Width (mm)	Height (mm)	Radius (mm)	Stud Size	Pack(s)
CAL-10A-10	25	101	13.9	25	30	M10	40x4
CAL-10A-12	35	101	13.9	25	30	M12	40x4
CAL-10A-14	50	101	13.9	25	30	M14	40x4
CAL-10A-16	70	101	13.9	25	30	M16	40x4
CAL-10A-18	95	101	13.9	25	30	M18	40x4
CAL-10A-20	120	101	13.9	25	30	M20	40x4
CAL-10A-25	150	101	13.9	25	30	M25	40x4
CAL-10A-30	185	101	13.9	25	30	M30	40x4
CAL-10A-35	220	101	13.9	25	30	M35	40x4
CAL-10A-40	270	101	13.9	25	30	M40	40x4
CAL-10A-45	320	101	13.9	25	30	M45	40x4
CAL-10A-50	385	101	13.9	25	30	M50	40x4
CAL-10A-55	450	101	13.9	25	30	M55	40x4
CAL-10A-60	520	101	13.9	25	30	M60	40x4
CAL-10A-65	600	101	13.9	25	30	M65	40x4
CAL-10A-70	690	101	13.9	25	30	M70	40x4

Dimensional data for mid-range bimetallic connectors, including M10 to M16 stud configurations.

Type	Conductor Size (mm²)	Length (mm)	Width (mm)	Height (mm)	Radius (mm)	Stud Size	Pack(s)
CAL-10A-10	25	101	13.9	25	30	M10	20x4
CAL-10A-12	35	101	13.9	25	30	M12	20x4
CAL-10A-14	50	101	13.9	25	30	M14	20x4
CAL-10A-16	70	101	13.9	25	30	M16	20x4
CAL-10A-18	95	101	13.9	25	30	M18	20x4
CAL-10A-20	120	101	13.9	25	30	M20	20x4
CAL-10A-25	150	101	13.9	25	30	M25	20x4
CAL-10A-30	185	101	13.9	25	30	M30	20x4
CAL-10A-35	220	101	13.9	25	30	M35	20x4
CAL-10A-40	270	101	13.9	25	30	M40	20x4
CAL-10A-45	320	101	13.9	25	30	M45	20x4
CAL-10A-50	385	101	13.9	25	30	M50	20x4
CAL-10A-55	450	101	13.9	25	30	M55	20x4
CAL-10A-60	520	101	13.9	25	30	M60	20x4
CAL-10A-65	600	101	13.9	25	30	M65	20x4
CAL-10A-70	690	101	13.9	25	30	M70	20x4

Specifications for high-capacity connectors accommodating 185mm² to 400mm² conductors.

Type	Conductor Size (mm²)	Length (mm)	Width (mm)	Height (mm)	Radius (mm)	Stud Size	Pack(s)
CAL-500A-10	185	140	29	41	36	M10	12x4
CAL-500A-12	240	140	29	41	36	M12	12x4
CAL-500A-14	300	140	29	41	36	M14	12x4
CAL-500A-16	370	140	29	41	36	M16	12x4
CAL-500A-20	470	140	29	41	36	M20	6x4
CAL-630A-10	185	157.5	32.5	47	45	M10	6x4
CAL-630A-12	240	157.5	32.5	47	45	M12	6x4
CAL-630A-14	300	157.5	32.5	47	45	M14	6x4
CAL-630A-16	370	157.5	32.5	47	45	M16	6x4
CAL-630A-20	470	157.5	32.5	47	45	M20	6x4

Technical layout for heavy-duty 500mm² and 630mm² bimetallic lugs.

Conductor Size Range

16mm² to 630mm²

Compatible Stud Sizes

M8, M10, M12, M14, M16, M20

Voltage Application

Low Voltage