

Bimetallic Lug Connector

These bimetallic lugs are used for transition connection of aluminum cable or aluminum alloy cable with copper end of electrical equipment in medium voltage. They feature an oil blocking structure and are friction welded.



Product Overview

High-Performance Bimetallic Transition Lugs

These bimetallic lugs are specifically designed for the transition connection between aluminum or aluminum alloy cables and copper ends of electrical equipment in medium voltage applications. Manufactured using a high-strength friction welding process, they ensure a reliable bond between the aluminum barrel and copper palm to prevent galvanic corrosion. Each unit comes pre-filled with jointing compound and features clear markings for precise crimping according to DIN standards.

Technical Standards

Manufacturing Standard
DIN 46329 • Germany Norm

Material Specifications

- Material Purity**
- Aluminum (Al) e 99.5%
 - Copper (Cu) e 99.9%

Key Features

Design & Construction

Oil blocking structure, Friction welded, Pre-filled jointing compound, Crimp location markings, High conductivity, Corrosion resistant

Application Range

Conductor Size Range

16 mm²

Min Conductor

400 mm²

Max Conductor

Dimensional Data (Small - Medium)

Type	Conductor Size (mm ²)	Dimensions				Stud Size	Pack(pcs)	Crimping Die
		L(mm)	d(mm)	D(mm)	B(mm)			
CAL-16BG-8	16	68	6	12	24	M8	60x8	DL12
CAL-16BG-10		68	6	12	24	M10		
CAL-25BG-8	25	68	6.8	12	24	M8	60x8	DL12
CAL-25BG-10		68	6.8	12	24	M10		
CAL-35BG-8	35	77	8	14	24	M8	50x8	DL14
CAL-35BG-10		77	8	14	24	M10		
CAL-35BG-12		77	8	14	24	M12		
CAL-50BG-8	50	77	9.8	16	24	M8	50x8	DL16
CAL-50BG-10		77	9.8	16	24	M10		
CAL-50BG-12		77	9.8	16	24	M12		
CAL-70BG-10	70	85	11.2	18.5	24	M10	40x8	DL18
CAL-70BG-12		85	11.2	18.5	24	M12		
CAL-95BG-8	95	90.5	13.2	22	30	M8	25x8	DL22
CAL-95BG-10		90.5	13.2	22	30	M10		
CAL-95BG-12		90.5	13.2	22	30	M12		
CAL-95BG-16		90.5	13.2	22	30	M16		

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

Specifications (16mm² - 95mm²)

Type	Conductor (mm ²)	Stud Size	L (mm)	Crimping Die
CAL-16BG-8	16	M8	68	DL12
CAL-25BG-10	25	M10	68	DL12
CAL-35BG-12	35	M12	77	DL14
CAL-50BG-10	50	M10	77	DL16
CAL-70BG-12	70	M12	85	DL18
CAL-95BG-12	95	M12	90.5	DL22

Dimensional Data (Large)

CAL-120BG-10	120	92	14.7	23	30	M10	50x4	DL22
CAL-120BG-12		92	14.7	23	30	M12		
CAL-120BG-16		92	14.7	23	30	M16		
CAL-150BG-10	150	104	16.3	25	30	M10	40x4	DL25
CAL-150BG-12		104	16.3	25	30	M12		
CAL-150BG-16		104	16.3	25	30	M16		
CAL-185BG-10	185	105	18.3	28.5	30	M10	30x4	DL28
CAL-185BG-12		105.5	18.3	28.5	35	M12		
CAL-185BG-16		105.5	18.3	28.5	35	M16		
CAL-240BG-10	240	118.5	21	32	35	M10	25x4	DL32
CAL-240BG-12		118.5	21	32	35	M12		
CAL-240BG-16		118.5	21	32	35	M16		
CAL-240BG-20		118.5	21	32	35	M20		
CAL-300BG-12	300	124	23.3	34	36	M12	20x4	-
CAL-300BG-16		124	23.3	34	36	M16		
CAL-300BG-20		124	23.3	34	36	M20		
CAL-400BG-12	400	133.5	26	38.5	40	M12	15x4	-

Detailed measurements for heavy-duty conductor applications up to 400mm².

Specifications (120mm² - 400mm²)

Type	Conductor (mm ²)	Stud Size	L (mm)	Crimping Die
CAL-120BG-12	120	M12	92	DL22
CAL-150BG-12	150	M12	104	DL25
CAL-185BG-12	185	M12	105.5	DL28
CAL-240BG-12	240	M12	118.5	DL32
CAL-300BG-16	300	M16	124	DL34
CAL-400BG-12	400	M12	133.5	DL38