

Bimetallic Lug Connector for Aluminum to Copper Transition

These bimetallic lug connectors are used for transition connections between aluminum or aluminum alloy cables and the copper ends of electrical equipment in medium voltage setups. They feature an oil-blocking structure and are friction welded with a prefilled jointing compound.



Overview

High-Performance Bimetallic Transition Lugs

These CXAU bimetallic lugs are engineered for reliable transition connections between aluminum or aluminum alloy cables and copper electrical equipment terminals in medium voltage applications. Featuring a friction-welded construction, they ensure superior mechanical strength and electrical conductivity while preventing galvanic corrosion. The oil-blocking structure and pre-filled jointing compound provide long-term protection and simplified installation for professional electrical systems.

Technical Standards

Compliance & Standards

NF C 33-090, French Norm, Medium Voltage

Material Composition

Material Purity

99.5 %

Aluminum Purity

99.9 %

Copper Purity

Key Features

Design Features

- Friction welded joint for high-strength Al-Cu transition
- Oil blocking structure to prevent leakage
- Pre-filled with jointing compound for oxidation resistance
- Specifically designed for French standard installations

Dimensional Data

Type	Conductor Size (mm²)	Dimensions				Stud size	Packs(pcs)	Crimping Die Indent
		L(mm)	d1(mm)	D1(mm)	B(mm)			
C0AU16	16	70	5.5	16	20	M10	300	MC OE-OE
C0AU25	25	70	6.5	16	20	M10	300	MC OE-OE
C0AU35	35	74.5	8	16	24	M12	300	MC OE-OE
C1AU50	50	74.5	9	20	24	M12	240	MC 1E-1E
C1AU70	70	74.5	11	20	24	M12	240	MC 1E-1E
C1AU95	95	74.5	12.5	20	24	M12	240	MC 1E-1E
C2AU120	120	96	13.7	25	30	M12	150	MC 2E-2E
C2AU150	150	96	15.5	25	30	M12	150	MC 2E-2E
C4AU185	185	97.5	17	32	30	M12	90	MC 4E-4E
C4AU240	240	97.5	19.5	32	30	M12	90	MC 4E-4E
C5AU300	300	145	23.3	40	40	M16	42	MC 5E-5E
C5AU400	400	145	26	40	40	M16	42	MC 5E-5E
C6AU500	500	148	29.1	47	60X60	4xM8	16	MC 6E-6E
C6AU630	630	148	32.5	47	60X60	4xM8	16	MC 6E-6E

Detailed dimensions and conductor compatibility for the CXAU series bimetallic lugs.

Technical Specifications by Model

Type	Conductor Size (mm²)	Length L (mm)	Stud Size	Crimping Die
C0AU16	16	70	M10	MC OE-OE
C0AU25	25	70	M10	MC OE-OE
C1AU50	50	74.5	M12	MC 1E-1E
C1AU95	95	74.5	M12	MC 1E-1E
C2AU120	120	96	M12	MC 2E-2E
C4AU240	240	97.5	M12	MC 4E-4E
C5AU400	400	145	M16	MC 5E-5E
C6AU630	630	148	4xM8	MC 6E-6E

Installation

Installation Method

The aluminum barrel is crimped using standard crimping tools (refer to specific Indent codes), and the copper palm is bolted to the equipment pad.