

ALUMINUM-COPPER LUGS

DESCRIPTION

Aluminum-copper lugs are electrical connectors designed to connect aluminum conductors to copper conductors or equipment. These lugs ensure a secure and reliable transition between the two metals, preventing galvanic corrosion and guaranteeing optimal conductivity.



SPECIFICATIONS

- Aluminum cables: 16 mm² to 500 mm².
- Copper cables: 16 mm² to 500 mm².
- Material:
- Aluminum: Purity ≥ 99.5%.
- Copper: Purity ≥ 99.9%, tin-plated for enhanced durability.
- Electrical Resistance: Low contact resistance to minimize energy losses.
- Temperature Range: -40°C to +105°C.
- Finish:
- Tin-plated copper section to prevent oxidation.
- Treated aluminum section for improved corrosion protection.
- Installation: Crimping with specific crimping tools.
- Options: Available in various sizes to accommodate different cable gauges.

MATERIAL

- Body: Electrolytic aluminum for contact with aluminum cables.
- Tip: Electrolytic copper (typically tin-plated to prevent oxidation).
- Transition Weld: A specialized zone connecting the aluminum and copper, designed to ensure high conductivity and minimize galvanic corrosion.

APPLICATION

- Connection of cables in high-voltage, medium-voltage, and low-voltage installations.
- Linking aluminum cables to copper equipment.
- Use in distribution panels and equipment requiring aluminum-copper transitions.
- Applicable in signaling and power supply systems.