

Bimetallic Connector for Aluminum to Copper Cables

This bimetallic connector facilitates the transition between aluminum and copper cables in medium voltage systems. It features a friction-welded design and prefilled jointing compound to prevent galvanic corrosion.



Product Overview

Bimetallic Transition Solutions

These RJ-XAU series bimetallic connectors are designed for the intermediate transition connection of aluminum or aluminum alloy cables to copper cables in medium voltage applications. Engineered to minimize the risk of galvanic corrosion, these connectors feature a friction-welded construction and an oil-blocking structure for superior electrical and mechanical reliability. Every unit is prefilled with a high-performance jointing compound to ensure optimal conductivity and longevity in demanding utility environments.

Technical Specifications

Connector Features

- Oil blocking structure
- Friction welded
- Prefilled with jointing compound

| | |
|--------------------|----------------------------------|
| Material Standards | Al \geq 99.5%, Cu \geq 99.9% |
| Industry Standard | NF C 33-090 |

Dimensions and Compatibility

| Type | Conductor Size (mm ²) | Dimensions | | | | Pack(pcs) | Crimping Die | |
|----------------|-----------------------------------|------------|-------|-------|--------|-----------|--------------|---------|
| | | L(mm) | d(mm) | D(mm) | d1(mm) | | Al(Indent) | Cu(Hex) |
| RJ-1AU-70-35 | AL70/CU35 | 106.5 | 11 | 20 | 8.5 | 80x4 | MJ 1E-1E | E173 |
| RJ-1AU-95-50 | AL95/CU50 | 106.5 | 12.5 | 20 | 9.5 | 80x4 | MJ 1E-1E | E173 |
| RJ-1AU-95-70 | AL95/CU70 | 106.5 | 12.5 | 20 | 11 | 80x4 | MJ 1E-1E | E173 |
| RJ-2AU-120-70 | AL120/CU70 | 133 | 13.7 | 25 | 11 | 30x4 | MJ 2E-2E | E215 |
| RJ-2AU-120-95 | AL120/CU95 | 133 | 13.7 | 25 | 13 | 30x4 | MJ 2E-2E | E215 |
| RJ-2AU-150-95 | AL150/CU95 | 133 | 15.5 | 25 | 13 | 30x4 | MJ 2E-2E | E215 |
| RJ-2AU-150-150 | AL150/CU150 | 133 | 15.5 | 25 | 16 | 30x4 | MJ 2E-2E | E215 |
| RJ-4AU-185-120 | AL185/CU120 | 143.5 | 17 | 32 | 14.2 | 20x4 | MJ 4E-4E | - |
| RJ-4AU-240-150 | AL240/CU150 | 143.5 | 19.5 | 32 | 16 | 20x4 | MJ 4E-4E | - |
| RJ-4AU-240-185 | AL240/CU185 | 143.5 | 19.5 | 32 | 18 | 20x4 | MJ 4E-4E | - |

Dimensional and compatibility chart for RJ-XAU bimetallic connector models.

Model Specifications

| Type | Conductor Size (Al/Cu) | Length (mm) | d (mm) | D (mm) | d1 (mm) |
|----------------|------------------------|-------------|--------|--------|---------|
| RJ-1AU-70-35 | AL70/CU35 | 106.5 | 11 | 20 | 8.5 |
| RJ-1AU-95-50 | AL95/CU50 | 106.5 | 12.5 | 20 | 9.5 |
| RJ-1AU-95-70 | AL95/CU70 | 106.5 | 12.5 | 20 | 11 |
| RJ-2AU-120-70 | AL120/CU70 | 133 | 13.7 | 25 | 11 |
| RJ-2AU-120-95 | AL120/CU95 | 133 | 13.7 | 25 | 13 |
| RJ-2AU-150-95 | AL150/CU95 | 133 | 15.5 | 25 | 13 |
| RJ-2AU-150-150 | AL150/CU150 | 133 | 15.5 | 25 | 16 |
| RJ-4AU-185-120 | AL185/CU120 | 143.5 | 17 | 32 | 14.2 |
| RJ-4AU-240-150 | AL240/CU150 | 143.5 | 19.5 | 32 | 16 |
| RJ-4AU-240-185 | AL240/CU185 | 143.5 | 19.5 | 32 | 18 |