



Application

Bimetallic bolted connectors for aluminium/copper conductors or tubes in 63 to 220kV substations.

Description:

This range includes:

- Straight and tee connectors
- Straight terminal palm connectors for substation apparatus: CT, VT, CB, disconnectors...
- Expansion connectors with aluminium shunts.

The aluminium and copper alloy halves are respectively clamped onto the aluminium and the copper conductor. Factory made bolted bimetallic joint sandwiches a copper aluminium laminated sheet (cupal) with a folder contour protected against corrosion by a varnish. Bimetallic joint bolts should never be touched on site.

Products are cast in first melting ingot of aluminium alloy according to European standard.

Standard connectors are equipped with alu alloy U bolts. High grade stainless steel bolts can be supplied on request.

For further details, please refer to our Aluminium and Bimetallic Connectors 63 to 220 kV catalogue, PN 296860 / RPN 370034-000.



Conductor fitment:

Complete and proven range to connect

- Copper conductors from 50 to 600sqmm (100 to 1200 MCM)
- Copper tube from 20 to 120 mm (non metric system can be delivered on request)
- Aluminium conductor AAC, AAAC, ACSR & ACAR conductors from 75 to 1144sqmm (2/0 AWG to 2250MCM)
- Alu tube 30 to 120mm (metric system)
- Copper/Alu stud 30 to 60mm
- Copper/Alu palm 80x80, 100x100, 125x125mm or other dimensions on request.

Performances to meet:

- NEMA CC1 standard requirements for
 - RIV & CORONA (up to 220kV)
 - Temperature rise
 - Mechanical test
- IEC 694 standard requirements for short circuit.

Benefits:

- The Connector designs are approved by RTE (EDF Transport).
- Bimetallic junction guaranteed by the manufacturer.
- The phase to phase distance is reduced due the shunt advantage.
- Bimetallic junction realised without additive efforts on site due to the bimetallic joint advantage.

Energy Division

All of the above information, including drawings, illustrations and graphic designs, reflects our present understanding and is to the best of our knowledge and belief correct and reliable. Users, however, should independently evaluate the suitability of each product for the desired application. Under no circumstances does this constitute an assurance of any particular quality or performance. Such an assurance is only provided in the context of our product specifications or explicit contractual arrangements. Our liability for these products is set forth in our standard terms and conditions of sale. SIMEL is a trademark.

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