

MECHANICAL CONNECTORS (SHEAR HEAD BOLT CONNECTORS)

RADI shear head bolt connectors are a means of providing electrical continuity to conductors in straight joints. These connectors are universal connectors for connecting cable with aluminum or copper conductors and for joining cable of dissimilar conductor metals (aluminum /copper).

The connector consists of a housing made of an aluminum alloy. The tubular housing is provided with transverse grooves on inner side. The tube encloses the conductors. The shear head bolts are radially mounted. After inserting the conductors, the bolts are tightened fully up to pre-designed torque. The bolts shear off. Sheared part remains inside the housing providing a permanent contact force between the conductor and the grooves.

The key advantages of shear head mechanical connectors are as follows:

- Regular only a simple tool
- Spanner for installation
- Universal connectors suitable for aluminum /copper conductors' cables and for aluminum -copper connections
- Range taking minimum of three CONSECUTIVE sizes of conductors can be joint by one size of connector.



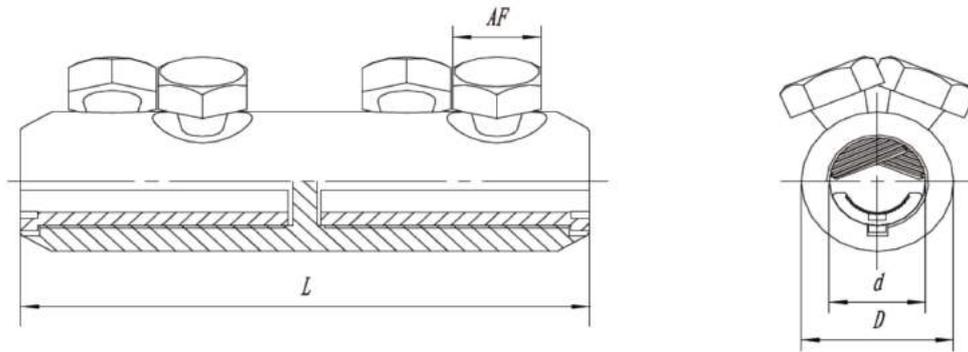
Product Technical Data:

Material	Aluminum Alloy
Hardness	90-100 Brinell (B.H.N.)
Melting Point	650 ° C
Electrical resistivity at 20 ° C	3.82×10^{-8} ohms-mtr
Co-efficient of liner expansion	0.004
Continuous operating temperature	90° C
Short circuit temperature with stand	250 ° C
Product Performance standard	Conform to IEC 61238-1-1 (up to 1.2KV) IEC 61238-1-3 (up to 33 KV)

The connector is supplied coated internally with non-petroleum-based oxide inhibition paste and with centering ring and installation instruction sheet

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Product Dimensions:



Part Number	Conductor Cross Section (MMSQ)	Connector Dimensions (mm)				Number of Bolts	Exposed Length of Conductor
		d	D	L	AF		
RBMC 16-35	16/25 -35	9.0	24.0	80.0	19.0	2	35 to 40
RBMC 70-185	70 -185	19.5	34.5	122.0	19.0	4	55 to 62
RBMC 185-300	185 -300	23.5	38.5	142.0	22.0	4	65 to 70

The above products' dimensions are for reference and information. The manufacturer reserves the rights to make changes to the products' dimensions as they see fit, without prior notice. Please check with our technical office or your local distributors when in doubts.