

**Shear-head Bolt Connectors  
For Power Cables**

“CALTER” shear-head bolt connectors are designed to provide a means of low-resistance conductor continuity in Straight-through Joints. The connector is made of an aluminium alloy of high hardness and conductivity. The connector is internally grooved for imparting a high degree of friction to the conductors.

The connector is suitable for connecting copper and aluminium conductors and also for connecting copper conductors to aluminium conductors.

The shear-head bolts connectors are designed with multiple shear planes which shear off on attaining an optimum torque on tightening the bolt. The bolt after shearing off exerts a high and permanent force on the conductor providing a low contact resistance between the conductor and the connector.

The connector is designed for a range-taking of two to three sizes of conductors. Installation is done either with a spanner with tubular head or with a cordless impact wrench.

The connector is supplied with a layer of tin coating to prevent oxide formation on internal and external surface. The connector can also be supplied coated internally with a corrosion inhibition compound.

Physical, electrical and mechanical properties of the connector are tabulated below :



Size	Size Range, mm <sup>2</sup>		Exposed Length of Conductor (mm)	Length of Connector (mm)	Diameter mm (Nominal)	
	Round Conductor	Sector Conductor			I.D.	O.D.
2	300 - 300/240/185/150	150-240	70 to 75	140	22.5	38.5
3	185-185/150/120/95	95-150	70to75	140	18.5	34.5
4	120-120/95/70	50-95	45to50	90	15.5	31.5