

**TECHNICAL SPECIFICATION OF BARE ENAMELED GLASS
COVERED AND VARNISHED COPPER CONDUCTOR**

1. MATERIAL:

ETP Grade copper as per DIN EN 13601:2002 OR Oxygen free copper.

2. CHEMICAL PURITY:

Purity of copper as per DIN EN 13601:2002

Copper + Silver > 99.9 %.

3. TYPE OF COPPER: Annealed.

4. SIZE RANGE:

WIDTH: 5.0 to 20.0 mm.

THICKNESS: 1.2 to 5.0 mm.

5. TYPE OF ENAMEL:

THERMAL CLASS

a. Polyester based (PE)

155°C

b. Polyester imide (PEI)

180°C

c. Polyester imide + Polyamide imide(PEI + PAI)

200°C

6. INCREASE DUE TO ENAMEL:

Grade-I: 0.06 – 0.11 mm.

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7. PROPERTIES OF BARE CONDUCTOR:

As per IEC 60317-0-2

8. PROPERTIES OF ENAMELED CONDUCTOR

IEC 60317-16 for PE

IEC 60317-28 for PEI

IEC 60317-29 for PEI + PAI

9. INCREASE IN DIMENSION DUE TO GLASS COVERING:

Nominal Width (mm.)		Glass Fiber Covering on Bare Conductor (mm.)		Glass Fiber Covering on Enameled Conductor (mm.)	
Over	Upto	Single Covering	Double Covering	Single Covering	Double Covering
5.0	6.3	0.12 – 0.20	0.23 – 0.37	0.25 – 0.37	0.38 – 0.52
6.3	12.5	0.14 – 0.24	0.27 – 0.43	0.27 – 0.41	0.43 – 0.57
12.5	20.00	0.17 – 0.29	0.31 – 0.47	0.30 – 0.46	0.46 – 0.62

Increase due to Glass Covering can also be given as per Customer requirements.

10. PACKING: 80 to 300 Kg. as per reel.