

TECHNICAL SPECIFICATION OF ENAMELED RECTANGULAR 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 13601-2002.
Copper + Silver – 99.90% min.

3. TYPE OF COPPER:

- a. Annealed
- b. CPR-1 (Rp0.2 120-170MPa)
- c. CPR-2 (Rp0.2 170-220MPa)

4. TYPE OF ENAMEL:

<u>Type of Enamel</u>	<u>Thermal Class</u>
a. Polyvinyl Acetal (PVA)	120°C
b. Polyester based (PE)	155°C
c. Polyesterimide (PEI)	180°C
d. Polyesterimide + Polyamide-imide (PEI+PAI)	200°C
e. Polyamide (PA)	220°C

5. INCREASE DUE TO ENAMEL:

Grade 1 ---- 0.06 – 0.11 mm.

Grade 2 ---- 0.12 – 0.16 mm.

For Dual coat, the total increase is 0.12 to 0.16 mm. or 0.08 to 0.12 as desired.

For better windibility and adherence, triple coat enamel is also used.

6. SIZE RANGE:

- a. Width 3.00 mm. to 20.00 mm.
- b. Thickness 1.20 mm. to 5.00 mm.

7. PROPERTIES OF BARE CONDUCTOR:

Quality of bare conductor and dimensional tolerances are as per IEC 60317-0-2.

8. PROPERTIES OF ENAMELED CONDUCTOR:

Properties of bare conductor are as per IEC 60317- respective part as per thermal class (Type of Enamel) and IEC 60317-0-2.

9. PACKING:

Plastic reel as per DIN 500 with a capacity of 100 Kg. per reel approximately.