

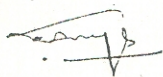
EPOXY COATED PAPER COVERED CONTINUOUSLY TRANSPOSED COPPER CABLE (0.1% PROOF STRESS)

1. This specification governs the quality of a continuously transposed copper cable exactly similar to specification AA 28129 except for the following modification/additional requirements. The cable shall not be manufactured earlier than 30 days from the date of despatch since it has a limited shelf life.
2. An extra coating of semicured ('B' stage) epoxy enamel shall be given over PVA enamel on all the conductor. The coating shall be tack-free at room temperature and it shall be able to fully cure when heated at 130 Deg.C. for 6 hours. The increase in dimension due to epoxy coating shall be 0.06mm ± 0.02mm and due to enamel coating increase in dimensions shall be 0.065 ± 0.025mm.
3. Nominal value of 0.1% proof stress of conductor shall be specified on order.
4. Tolerance on overall width and thickness (bare strip + PVA + enamel + epoxy) of individual conductor shall be as per clause 11 of specification AA 28129.
5. Paper used for outer covering shall comply to AA 21111 or AA 21116.
6. Insulation test between strips (cl.12.1 of AA 28129) shall be done as under :

The insulation test at 250 V AC for 1 minute shall be conducted on all drums between each and every other strip in CTC stack. Charging current (leakage current between enamelled and epoxy coated strips due to capacitive effect) shall not exceed 100mA per KM length of conductor.
7. Sample CTC cable shall be cured at 160 Deg.C. for 12 hours. After removal of paper covering, it would be visually checked for perfect bending of conductors. The stack will be bent manually. It should bend as one homogenous conductor.
8. Test Certificate shall be issued indicating observed and specified values of dimension and tests as per cl.no.13 of AA 28129 and Cl. 6 & 7 of TRE 036. Packing and marking will be as per cl.no. 14 of AA 28129. Packing shall be seaworthy and drums should be kept in a container/crate to avoid ingress of moisture in transit.

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