

Specification of Armoured Telephone Cable

Annexure - 4

| Sl No | Particulars | Details |
|-------|--------------------------|--|
| 1 | Conductor | : Solid annealed plain copper to IEC-28 in 0.6mm. |
| 2 | Insulation | : Solid Low/Medium/High Density Polyethylene. |
| 3 | Conductor Identification | : Insulated conductors shall be fully coded in accordance with Annexure-A of IEC-708-1. |
| 4 | Assembly | : Two insulated conductors shall be uniformly twisted together to form a pair with staggered twist lengths of max. 200mm. Ten pairs shall be assembled together to form a sub unit and each subunit shall have a coloured binder. |
| 5 | Core Filling | : The water resistant filling compound shall be applied to the air space within the cable core. |
| 6 | Core Wrapping | : Anon-hygroscopic and dielectric tape shall be applied longitudinally or helically with an overlap. |
| 7 | Moisture Barrier/Shield | : An Aluminium tape (0.15mm) coated on both sides with a copolymer shall be applied longitudinally over the core wrap with an overlap of 6mm & 20% for smaller diameter cables. |
| 8 | Sheath | : The sheath shall be an extruded Black low density polyethylene or medium density polyethylene. The thickness of the sheath and the dia. of the cable shall be as per TABLE - 1. The Minimum sheath thickness shall be 75% of the Nominal and the Average thickness shall be 85% of the Nominal thickness. |
| 9 | DST Armour | : In case of armoured cables the cable shall be armoured with two Galvanized Double Steel tape in such a manner that the second tape applied over the gap left over by the first tape with gap of +/- 50% of the width of the tape. The dimension of the tape shall be 0.2mm for the Cables whose Dia. Over Sheath is upto 30mm and for other cables the tape thickness shall be 0.5mm for the higher pair count cables. |
| 10 | Outer Jacket | : The Jacket shall be an extruded Black low density polyethylene or medium density polyethylene. The thickness of the Jacket and the overall diameter of the cable shall be as per the TABLE - 2. Minimum sheath thickness shall be 75% of the Nominal and the Average thickness shall be 85% of the Nominal thickness. |
| 11 | Sheath Marking | : The name of the manufacturer, size of the cord. X No of Pairs, shall be durably marked on the sheath at longitudinal intervals of not more than 1 mtr. Along with the sequential length marking. |