



LT XLPE CABLE

TDS Doc.No:PIL/TE/250425/002803

DESIGN CODE : LVIS09CXUAYL006C2.5SA001S

| Particulars | 6 Core X 2.5 Sq.mm |
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| Name of Manufacturer | Polycab India Ltd. |
| Type of cable | 2XY |
| Voltage Grade V | 1100 |
| No of cores X size in sqmm | 6 Core X 2.5 Sq.mm |
| Conductor | |
| a) Material | Plain annealed Copper as per Class 1 of IS:8130/2013 |
| b) Max. d.c. resistance of conductor at 20° C (ohm/km) | 7.41 |
| c) Shape of the conductor | Solid Circular |
| Insulation | |
| a) Material | XLPE as per IS 7098(Pt-1)/88, Latest |
| b) Nominal thickness (mm) | 0.7 |
| c) Core Identification | All cores Grey with number printing |
| Inner Sheath | |
| a) Material | Extruded PVC Type ST2 as per IS:5831/84 |
| b) Minimum thickness (mm) | 0.3 |
| Armouring | Not Applicable |
| Outer Sheath | |
| a) Material | Extruded FR-LSH PVC Type ST2 as per IS:5831/84 |
| b) Thickness (mm) | 1.8 (Nom.) |
| c) Colour of outer sheath. | Black |
| Electrical Parameters | |
| a) Max. a.c. resistance of conductor at 90° C (ohm/km) | 9.5 |
| b) Calculated Cable reactance (ohm/km) | 0.098 |
| c) Impedance of cable (ohm/km) | 9.5 |
| Maximum conductor temperature under normal operating conditions | 90°C |
| Maximum conductor temperature at the termination of short circuit | 250°C |

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| Short Circuit rating of conductor for the duration of 1 sec (kA) | 0.36 |
| Continuous Current carrying capacities :- | |
| (a) In Ground at 30°C (A) | 31 |
| (b) In Air at 40°C (A) | 27 |
| Applicable Standard | IS 8130/2013, IS 7098 Part I/88, IS 5831/84, IS 3975/1999 etc. with latest up to date amendments |
| Approx. overall diameter of the cable in mm | 14.0 ± 2.0 |
| Minimum bending radius | 12 times Overall diameter |
| Max. Tensile strength | |
| (i) for Cables pulled with stocking (Newtons) | 5 x D ² , D is the cable OD in mm |
| (ii) for Cables pulled with pulling eyes (N) | 750 |
| Embossing | POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE FR-LSH |
| Printing | YEAR POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE FR-LSH CABLE SIZE CABLE TYPE WITH SEQUENTIAL MARKING at every one meter interval. |
| Standard Drum Length (Mtr.) | 1000 ± 5% |
| Non- Standard Drum Length (Mtr.) | Maximum 5% of order quantity |
| PROPERTIES | |
| a) Oxygen Index | Min. 29% as per ASTM D- 2863 |
| b) Temperature Index | Min. 250 Deg.C as per ASTM D- 2863 |
| c) Smoke Density Rating | Max. 60% as per ASTM D- 2843 |
| d) Acid Gas Generation | Max. 20% as per IEC- 754- 1 |
| e) Flammability Test | As per IEC:332-I |