



LT XLPE CABLE

TDS Doc.No:PIL/TE/250425/000808

DESIGN CODE : LVIS09AXUAY2004C0955A001S

| Particulars | | 4 Core X 95 Sq.mm |
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| Name of Manufacturer | | Polycab India Ltd |
| Type of cable | | A2XY |
| Voltage Grade V | | 1100 |
| No of cores X size in sqmm | | 4 Core X 95 Sq.mm |
| Conductor | | |
| a) Material | | H2/H4 Grade Aluminium as per Class 2 of IS: 8130/2013,latest |
| b) Max. d.c. resistance of conductor at 20° C (ohm/km) | | 0.3200 |
| c) Shape of the conductor | | Stranded Compacted Sector |
| Insulation | | |
| a) Material | | XLPE as per IS 7098(Pt-1)/88, Latest |
| b) Nominal thickness (mm) | | 1.1 |
| c) Core Identification | | Red, Yellow, Blue & Black |
| Inner Sheath | | |
| a) Material | | Extruded PVC Type ST2 as per IS:5831/84 |
| b) Minimum thickness (mm) | | 0.4 |
| Armouring | | |
| a) Material | | NA |
| b) Type of armouring | | NA |
| c) Nominal size of armour (mm) | | NA |
| Outer Sheath | | |
| a) Material | | Extruded PVC Type 'ST2' as per IS:5831/84 |
| b) Thickness (mm) | | 2.2 (Nom.) |
| c) Colour of outer sheath. | | Black |
| Electrical Parameters | | |
| a) Max. a.c. resistance of conductor at 90° C (ohm/km) | | 0.4110 |
| b) Calculated Cable reactance (ohm/km) | | 0.0725 |
| c) Impedance of cable (ohm/km) | | 0.4170 |

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| Maximum conductor temperature under normal operating conditions | 90°C |
| Maximum conductor temperature at the termination of short circuit | 250°C |
| Short Circuit rating of conductor for the duration of 1 sec (kA) | 8.98 |
| Continuous Current carrying capacities :- | |
| (a) In Ground at 30°C (A) | 197 |
| (b) In Air at 40°C (A) | 216 |
| Applicable Standard | IS 7098 Part I/88,IS 8130/2013,IS 5831/84 etc. with latest up to date amendments |
| Approx. overall diameter of the cable in mm | 36.0 ± 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) | 11400 |
| Embossing | POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE |
| Printing | YEAR POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE , CABLE SIZE, CABLE TYPE WITH SEQUENTIAL MARKING at every one meter interval. |
| Standard Drum Length (Mtr.) | 500 ± 5% |
| Non- Standard Drum Length (Mtr.) | Maximum 5% of order quantity |