



**LT XLPE CABLE**

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DESIGN CODE : LVIS09CXUAY2002C2.5SA003S

| Particulars   | 2 Core X 2.5 Sq.mm                                   |
|---|--|
| Name of Manufacturer  | Polycab India Ltd.                                   |
| Type of cable   | 2XY  |
| Voltage Grade V   | 1100   |
| No of cores X size in sqmm                                      | 2 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)          | 7.4100   |
| 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  | Red,Black  |
| 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 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)          | 9.4500   |
| b) Calculated Cable reactance (ohm/km)                          | 0.0983   |
| c) Impedance of cable (ohm/km)                                  | 9.4500   |
| 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)  | 0.36   |
| <b>Continuous Current carrying capacities :-</b>                  |  |
| (a) In Ground at 30°C (A)   | 41   |
| (b) In Air at 40°C (A)  | 36   |
| 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                       | 11.0 ± 2.0   |
| Minimum bending radius  | 12 times Overall diameter  |
| Max. Tensile strength   |  |
| (i) for Cables pulled with stocking (Newtons)                     | 5 x D <sup>2</sup> , D is the cable OD in mm   |
| (ii) for Cables pulled with pulling eyes (N)                      | 250  |
| 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.)                                       | 1000 ± 5%  |
| Non- Standard Drum Length (Mtr.)                                  | Maximum 5% of order quantity   |