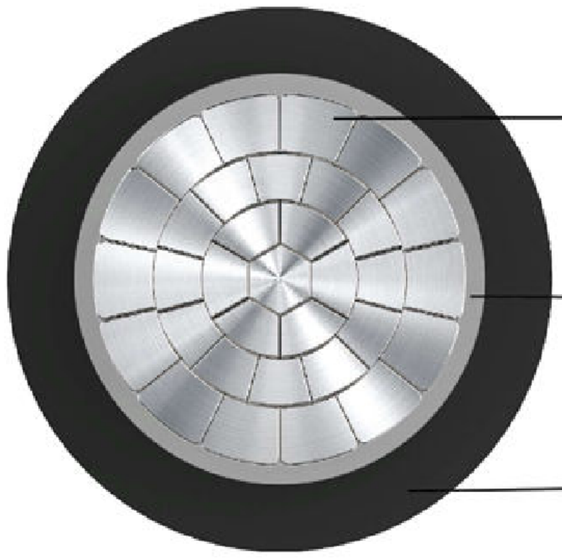
# CABLES

POLYCAB







## LT XLPE CABLE

**TDS Doc.No:PIL/TE/250425/000348** **DESIGN CODE : LVIS09AXUAY2001C035SA001S**

| Particulars | | 1 Core X 35 Sq.mm |
|---|---|---|
| Name of Manufacturer | | Polycab India Ltd |
| Type of cable | | A2XY |
| Voltage Grade V | | |
| No of cores X size in sqmm | | 1 Core X 35 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) | 0.868 |
| c) | Shape of the conductor | Stranded Compacted Circular |
| **Insulation** | | |
| a) | Material | XLPE as per IS 7098(Pt-1)/88, Latest |
| b) | Nominal thickness (mm) | 0.9 |
| c) | Core identification | Natural |
| **Outer Sheath** | | |
| a) | Material | Extruded PVC Type 'ST2' as per IS:5831 |
| 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) | 1.11 |
| b) | Calculated Cable reactance (ohm/km) | 0.101 |
| c) | Impedance of cable (ohm/km) | 1.11 |
| 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) | | 3.31 |
| **Continuous Current carrying capacities :-** | | |
| (a) | In Ground at 30°C (A) | 116 |

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| | |
|---|---|
| (b) In Air at 40°C (A) | 119 |
| 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 | 13.0 +/- 2.0 |
| Minimum bending radius | 15 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) | 1050 |
| 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. |



Note:-The values given above are subject to tolerances as per the relevant standards