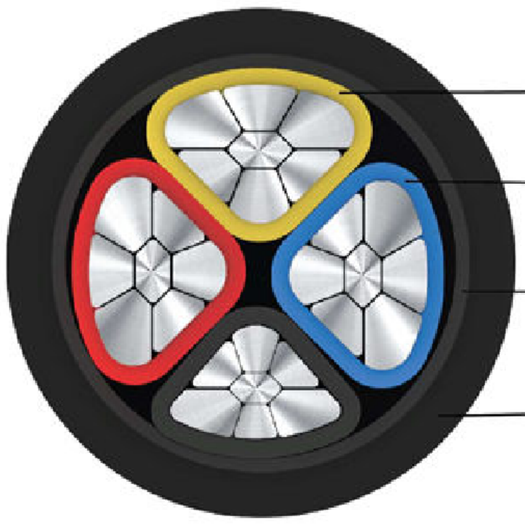
POLYCAB

# CABLES



Stranded Aluminium Conductor

XLPE Insulation

Inner Sheath

Extruded PVC type ST2 Outer Sheath




# LT XLPE CABLE

**TDS Doc.No:PIL/TE/250425/000872**

**DESIGN CODE : LVIS09AXUAY23.5C120SA001S**

| Particulars | | 3.5 Core X 120 Sq.mm |
|---|---|---|
| Name of Manufacturer | | Polycab India Ltd |
| Type of cable | | A2XY |
| Voltage Grade V | | 1100 |
| No of cores X size in sqmm | | 3.5 Core X 120 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) | Main | 0.253 |
| | Neutral | 0.443 |
| c) Shape of the conductor | | Stranded Compacted Sector |
| **Insulation** | | |
| a) Material | | XLPE as per IS 7098(Pt-1)/88, Latest |
| b) Nominal thickness (mm) | Main | 1.2 |
| | Neutral | 1.1 |
| c) Core identifcation | | Red,Yellow,Blue,Black |
| **Inner Sheath** | | |
| a) Material | | Extruded PVC Type ST2 as per IS:5831/84 |
| b) Minimum thickness (mm) | | 0.4 |
| **Outer Sheath** | | |
| a) Material | | Extruded PVC Type 'ST2' as per IS:5831 |
| 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) | | 0.325 |
| b) Calculated Cable reactance (ohm/km) | | 0.0713 |
| c) Impedance of cable (ohm/km) | | 0.333 |
| d Approx. Cable Capacitance (mfd/km) | | 0.00 |
| Maximum conductor temperature under normal operating conditions | | 90°C |

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| | |
|---|---|
| Maximum conductor temperature at the termination of short circuit | 250°C |
| Short Circuit rating of conductor for the duration of 1 sec (kA) | 11.34 |
| **Continuous Current carrying capacities :-** | |
| (a) In Ground at 30°C (A) | 223 |
| (b) In Air at 40°C (A) | 249 |
| 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 | 37.5 +/- 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) | 12,900 |
| 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 |



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