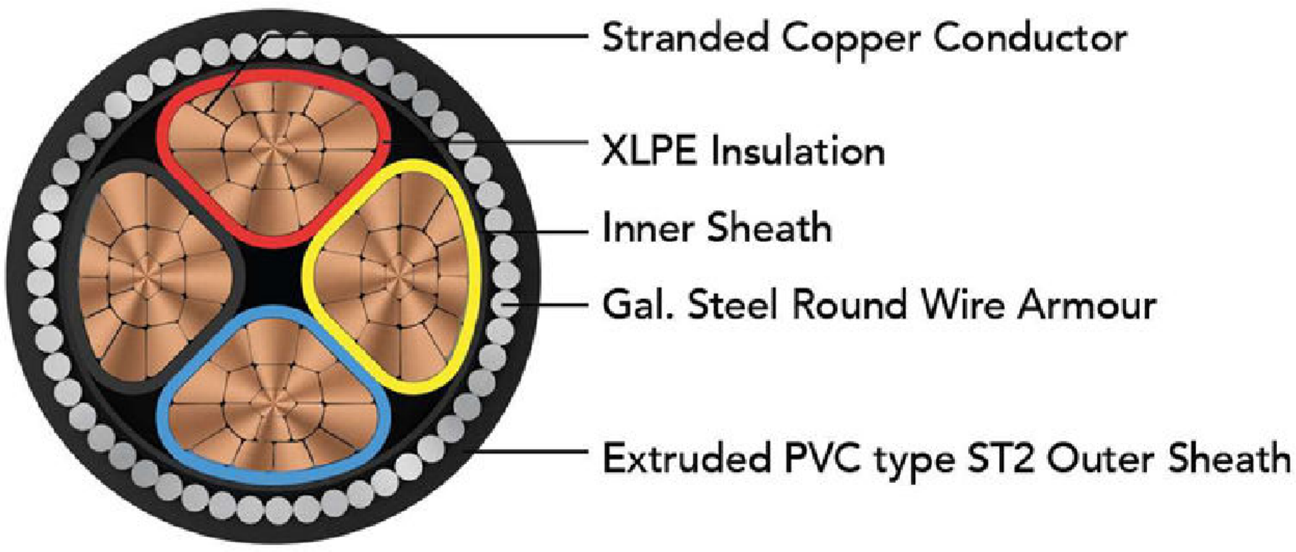
# CABLES

POLYCAB







## LT XLPE CABLE

**TDS Doc.No:PIL/TE/250425/000699** **DESIGN CODE : LVIS09CXSWY2004C070SA001S**

| Particulars | | 4 Core X 70 Sq.mm |
|---|---|---|
| Name of Manufacturer | | Polycab India Ltd. |
| Type of cable | | 2XWY |
| Voltage Grade V | | 1100 |
| No of cores X size in sqmm | | 4 Core X 70 Sq.mm |
| **Conductor** | | |
| a) | Material | Plain annealed Copper as per Class 2 of IS:8130/2013 |
| b) | Max. d.c. resistance of conductor at 20° C (ohm/km) | 0.268 |
| 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 | Galvanised Steel |
| b) | Type of armouring | Round Wire |
| c) | Nominal size of armour (mm) | 2 |
| d) | Tolerance | +/- 0.050 |
| **Outer Sheath** | | |
| a) | Material | Extruded PVC Type ST2 as per IS:5831/84 |
| b) | Thickness (mm) | 1.56 (Min.) |
| c) | Colour of outer sheath. | Black |
| **Electrical Parameters** | | |
| a) | Max. a.c. resistance of conductor at 90° C (ohm/km) | 0.342 |
| b) | Calculated Cable reactance (ohm/km) | 0.0742 |

Format ID: TE/QMS/F/07, R-00, Date: 16/03/2025

| | |
|---|---|
| c) Impedance of cable (ohm/km) | 0.350 |
| d Approx. Cable Capacitance (mfd/km) | 0.56 |
| 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) | 10.02 |
| **Continuous Current carrying capacities :-** | |
| (a) In Ground at 30°C (A) | 212 |
| (b) In Air at 40°C (A) | 226 |
| 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 | 36.0 ± 2.0 |
| Minimum bending radius | 12 times Overall diameter |
| Max. Tensile strength | |
| (i) for Cables pulled with stocking (Newtons) | 9 x $D^2$, D is the cable OD in mm |
| ii) for Cables pulled with pulling eyes (N) | 14,000 |
| 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