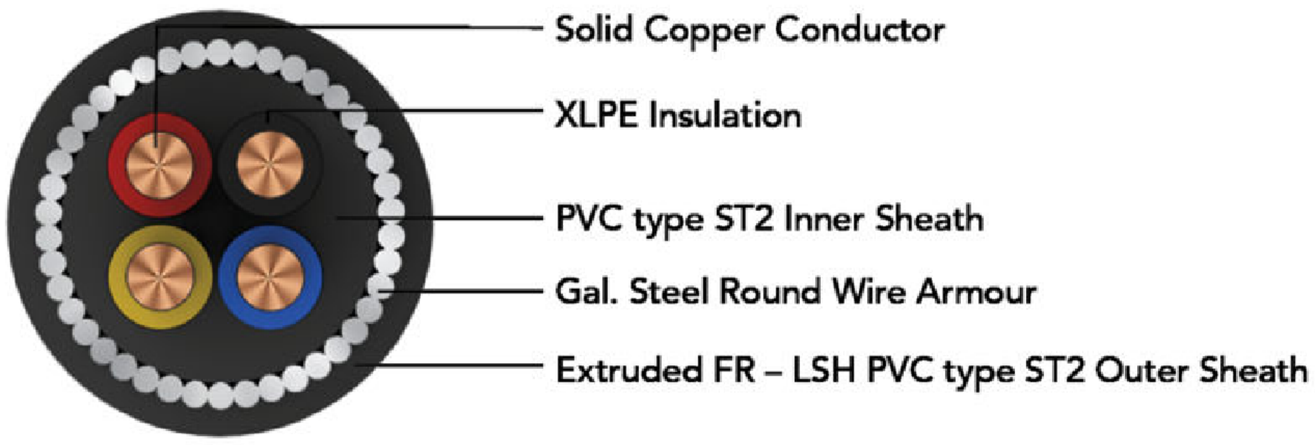
# CABLES

POLYCAB







# LT XLPE CABLE

**TDS Doc.No:PIL/TE/250425/000035**

**DESIGN CODE: LVIS09CXSWYL004C004SA002S**

| Particulars | 4 Core X 4 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 4 Sq.mm |
| **Conductor** | |
| Material | Plain annealed Copper as per Class 1 of IS:8130/2013 |
| Max. D.C. resistance of conductor at 20° C (ohm/km) | 4.61 |
| Shape of the conductor | Solid Circular |
| **Insulation** | |
| Material | XLPE as per IS 7098(Pt-1)/88, Latest |
| Nominal thickness (mm) | 0.7 |
| Core identification | Red,Yellow, Blue & Black |
| **Inner Sheath** | |
| Material | Extruded PVC Type ST2 as per IS:5831/84 |
| Minimum thickness (mm) | 0.3 |
| **Armouring** | |
| Material | Galvanised Steel |
| Type of armouring | Round Wire |
| Nominal size of armour (mm) | 1.4 |
| Tolerance on armour dimensions | +/- 0.040 |
| **Outer Sheath** | |
| Material | Extruded FR-LSH PVC Type ST2 as per IS:5831/84 |
| Thickness (mm) | 1.24 (Min.) |
| Colour of outer sheath. | Black |
| **Electrical Parameters** | |
| Max. a.c. resistance of conductor at 90° C (ohm/km) | 5.88 |
| Calculated Cable reactance (ohm/km) | 0.0919 |
| Impedance of cable (ohm/km) | 5.88 |
| Approx. Cable Capacitance (mfd/km) | 0.23 |

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

# CABLES

| | |
|---|---|
| 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) | 0.57 |
| **Continuous Current carrying capacities :-** | |
| In Ground at 30°C (A) | 45 |
| In Air at 40°C (A) | 41 |
| 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 | 15.0 +/- 2.0 |
| Minimum bending radius | 12 times Overall diameter |
| Max. Tensile strength<br>for Cables pulled with stocking (Newtons) | 9 x $D^2$, D is the cable OD in mm |
| for Cables pulled with pulling eyes (N) | 800 |
| Embossing | POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE FR-LSH |
| Printing | YEAR POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE FR-LSH 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 |
| **FR-LSH PROPERTIES** | |
| Oxygen Index | Min. 29% as per ASTM D- 2863 |
| Temperature Index | Min. 250 Deg.C as per ASTM D- 2863 |
| Smoke Density Rating | Max. 60% as per ASTM D- 2843 |
| Acid Gas Generation | Max. 20% as per IEC- 754- 1 |
| Flammability Test | As per IEC:332-I |



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

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