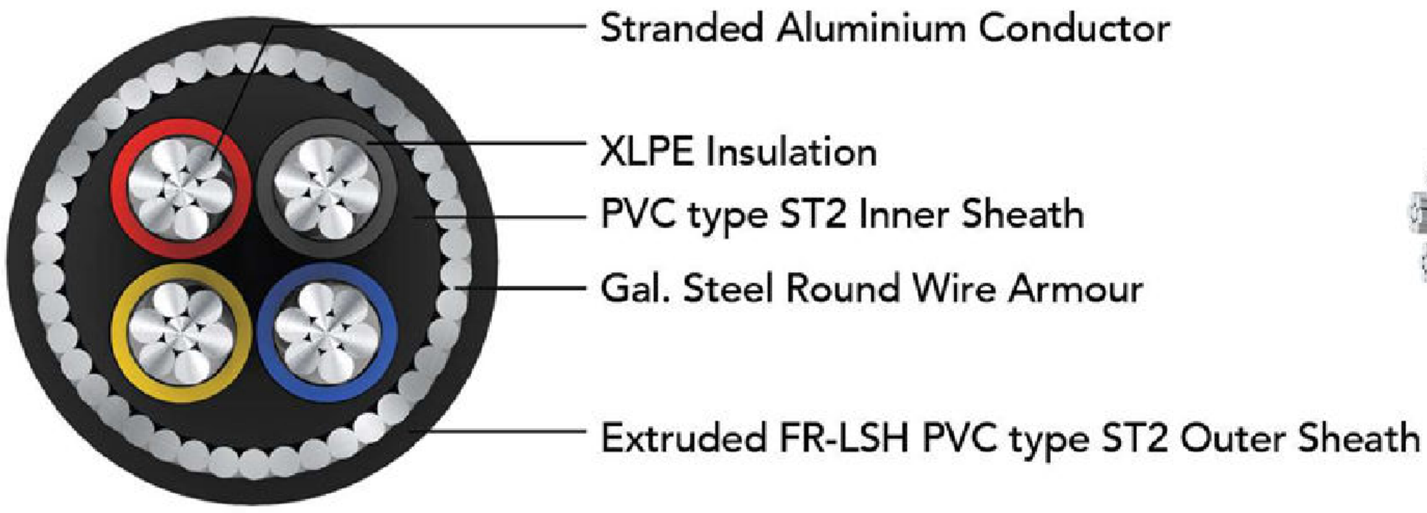
# CABLES

POLYCAB







## LT XLPE CABLE

**TDS Doc.No:PIL/TE/250425/000065** **DESIGN CODE : LVIS09AXSWYL004C006SA001S**

| Particulars | | 4 Core X 6 Sq.mm |
|---|---|---|
| Name of Manufacturer | | Polycab India Ltd |
| Type of cable | | A2XWY |
| Voltage Grade V | | 1100 |
| No of cores X size in sqmm | | 4 Core X 6 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) | 4.61 |
| c) | Shape of the conductor | Stranded Circular |
| **Insulation** | | |
| a) | Material | XLPE as per IS 7098(Pt-1)/88, Latest |
| b) | Nominal thickness (mm) | 0.7 |
| c) | Core identification | Red,Yellow,Blue,Black |
| **Inner Sheath** | | |
| a) | Material | Extruded PVC Type ST2 as per IS:5831 / 84 |
| b) | Minimum thickness (mm) | 0.3 |
| **Armouring** | | |
| a) | Material | Galvanised Steel |
| b) | Type of armouring | Round Wire |
| c) | Nominal size of armour (mm) | 1.4 |
| d) | Tolerance on armour dimensions | ± 0.040 mm |
| **Outer Sheath** | | |
| a) | Material | Extruded FR-LSH PVC Type 'ST2' as per IS:5831/ 84 |
| b) | Thickness (mm) | 1.24 (Min.) |
| c) | Colour of sheath | Black |
| **Electrical Parameters** | | |
| a) | Max. a.c. resistance of conductor at 90° C (ohm/km) | 5.91 |
| b) | Calculated Cable reactance (ohm/km) | 0.0877 |

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| | |
|---|---|
| c) Impedance of cable (ohm/km) | 5.91 |
| 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 :-** | |
| (a) In Ground at 30°C (A) | 46 |
| (b) In Air at 40°C (A) | 42 |
| Applicable Standard | IS 7098 Part I/88, IS 8130/2013, IS 5831/84, IS 3975/1999 etc. with latest up to date amendments |
| Approx. overall diameter of the cable in mm | 17.5 +/- 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) | 720 |
| 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 Mtr. ±5% |
| Non- Standard Drum Length (Mtr.) | Maximum 5% of order quantity |
| **FR-LSH PROPERTIES** | |
| a) Oxygen Index | Min. 29% as per ASTM D- 2863 |
| b) Temperature Index | Min. 250 Deg.C as per ASTM D- 2863 |
| c) Smoke Density Rating | Max. 60% as per ASTM D- 2843 |
| d) Acid Gas Generation | Max. 20% as per IEC- 754- 1 |
| e) Flammability Test | As per IEC:332-I |



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