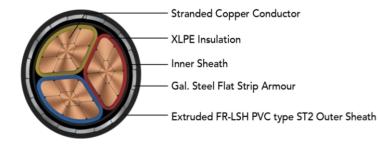


CABLES





LT XLPE CABLE

Document ID: TE/QMS/F/02

DESIGN CODE: LVIS09CXSFYL003C016SA001S

| | Particulars | 3 Core X 16 Sq.mm | |
|---------|---|--|--|
| | Name of Manufacturer | Polycab India Ltd | |
| | Type of cable | 2XFY | |
| | Voltage Grade V | 1100 | |
| | No of cores X size in sqmm | 3 Core X 16 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) | 1.15 | |
| c) | Shape of the conductor | Stranded Compacted Sector | |
| | Insulation | | |
| , | Material | XLPE as per IS 7098(Pt-1)/88, Latest | |
| | Nominal thickness (mm) | 0.7 | |
| c) | Core identification | Red,Yellow,Blue | |
| | Inner Sheath | | |
| a) | Material | Extruded PVC Type ST2 as per | |
| , L) | Minimum thistopas (mm) | IS:5831/84 0.3 | |
| b) | Minimum thickness (mm) Armouring | 0.5 | |
| a) | Material | Galvanised Steel | |
| b) | Type of armouring | Flat Strip | |
| c) | Nominal size of armour (mm) | 4.0 x 0.8 | |
| d) | Tolerance on armour dimensions | ± 10% | |
|) | Outer Sheath | | |
| a) | Material | Extruded FR-LSH PVC Type 'ST2' as per IS:5831/ 84 | |
| b) | Thickness (mm) | 1.24 (Min.) | |
| c) | Colour of outer sheath. | Black | |
| | Electrical Parameters | | |
| a) | Max. a.c. resistance of conductor at 90° C (ohm/km) | 1.47 | |
| b) | Calculated Cable reactance (ohm/km) | 0.0805 | |
| c) | Impedance of cable (ohm/km) | 1.47 | |
| d) | Approx. Cable Capacitance (mfd/km) | 0.43 | |
| | Maximum conductor temperature under normal operating conditions | 90°C | |
| Rev. | Rev.No.:00 Issued Date:02/04/2018 | | |

Note: -The values given above are subject to tolerances as per the relevant standards. www.polycab.com | Toll Free No - 1800 267 0008 | Email: enquiry@polycab.com



| onnec | tion Zindagi Ka | CABLES |
|----------------------------|---|---|
| | Maximum conductor temperature at the termination of short circuit | 250°C |
| | Short Circuit rating of conductor for the duration of 1 sec (kA) | 2.29 |
| | Continuous Current carrying capacities :- | |
| (a) | In Ground at 30°C (A) | 95 |
| (b) | In Air at 40°C (A) | 89 |
| | 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 Max. Tensile strength | 12 times Overall diameter |
| (i) | for Cables pulled with stocking (Newtons) | $9 \ge D^2$, D is the cable OD in mm |
| (ii) | for Cables pulled with pulling eyes (N) | 2400 |
| | 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 | |
| a) b) c) d) e) | Oxygen Index Temperature Index Smoke Density Rating Acid Gas Generation Flammability Test | Min. 29% as per ASTM D- 2863 Min. 250 Deg.C as per ASTM D- 2863 Max. 60% as per ASTM D- 2843 Max. 20% as per IEC- 754- 1 As per IEC:332-I |
| | | |

Issued Date:02/04/2018