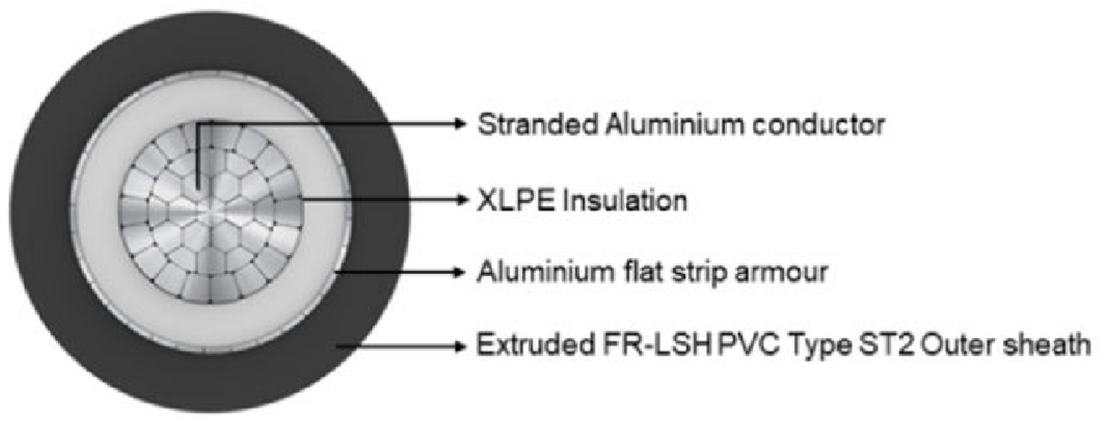
# CABLES

POLYCAB




## HT XLPE CABLE

**TDS Doc.No:PIL/TE/250425/002351**

**DESIGN CODE : MVIS10AXAFYL001C400SA**

| Particulars | 1 Core X 400 Sq.mm |
|---|---|
| Name of Manufacturer | Polycab India Ltd |
| Type of cable | A2XFaY |
| Voltage Grade kV | 1.9/3.3 (E) |
| No of cores X size in sq.mm | 1 Core X 400 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) | 0.0778 |
| c) Shape of the conductor | Stranded Compacted Circular |
| **Insulation** | |
| a) Material | XLPE as per IS 7098(Pt-2)/2011 |
| b) Nominal thickness (mm) | 2.6 |
| c) Core identification | Natural |
| **Armouring** | |
| a) Material | Aluminium |
| 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) | 1.56 (Min.) |
| c) Colour of outer sheath. | Black |
| **Electrical Parameters** | |
| a) Max. a.c. resistance of conductor at 90° C (ohm/km) | 0.102 |
| b) Calculated Cable reactance (ohm/km) | 0.0879 |
| c) Impedance of cable (ohm/km) | 0.135 |
| d) Approx. Cable Capacitance (mfd/km) | 0.68 |
| 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) | 37.79 |

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

# CABLES

POLYCAB

| Continuous Current carrying capacities | |
|---|---|
| a) In Ground at 30°C (A) | 412 |
| b) In Air at 40°C (A) | 593 |
| Applicable Standard | IS 7098 Part 2/2011, IS 8130/2013, IS 5831/84 etc. with latest up to date amendments |
| Approx. overall diameter of the cable in mm | 33.0 ± 3.0 |
| Minimum bending radius | 15 times Overall diameter |
| Max. Tensile strength | |
| a) for Cables pulled with stocking (Newtons) | 9 x $D^2$, D is the cable OD in mm |
| b) for Cables pulled with pulling eyes (N) | 12,000 |
| Embossing | POLYCAB ELECTRIC 1.9/3.3 KV (E) GRADE XLPE FR-LSH |
| Printing | YEAR POLYCAB ELECTRIC 1.9/3.3 KV (E) GRADE XLPE FR-LSH CABLE SIZE CABLE TYPE WITH SEQUENTIAL MARKING at every one meter interval. |
| **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 |
| Standard Drum Length (Mtr.) | 1000 ± 5% |
| Non- Standard Drum Length (Mtr.) | 5% of order quantity & Individual Non-standard drum length minimum 200 Mtrs |



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

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