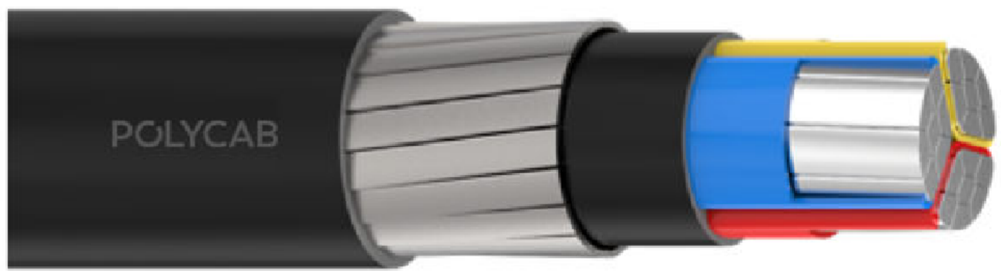
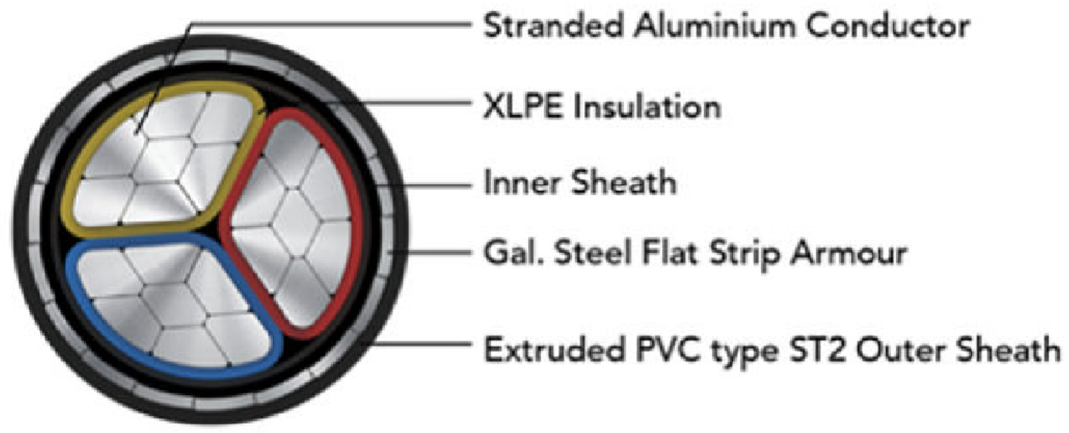
# CABLES

POLYCAB




## HT XLPE CABLE

**TDS Doc.No:PIL/TE/250425/002097** **DESIGN CODE : MVIS10AXSFY2003C150SA**

| Particulars | 3 Core X 150 Sq.mm |
|---|---|
| Name of Manufacturer | Polycab India Ltd |
| Type of cable | A2XFY |
| Voltage Grade kV | 1.9/3.3 (E) |
| No of cores X size in sq.mm | 3 Core X 150 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) | 0.206 |
| c) Shape of the conductor | Stranded Compacted Sector |
| **Insulation** | |
| a) Material | XLPE as per IS 7098(Pt-2)/2011 |
| b) Nominal thickness (mm) | 2.2 |
| c) Core identification | Red Yellow & Blue |
| **Inner Sheath** | |
| a) Material | Extruded PVC Type ST2 as per IS:5831/84 |
| b) Minimum thickness (mm) | 0.5 |
| c) Inner Sheath Colour | Black |
| **Armouring** | |
| 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 PVC Type 'ST2' as per IS:5831/84 |
| b) Thickness (mm) | 1.88 (Min.) |
| c) Colour of outer sheath | Black |
| **Electrical Parameters** | |
| a) Max. a.c. resistance of conductor at 90° C (ohm/km) | 0.265 |
| b) Calculated Cable reactance (ohm/km) | 0.0788 |
| c) Impedance of cable (ohm/km) | 0.276 |

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| | |
|---|---|
| d) Approx. Cable Capacitance (mfd/km) | 0.41 |
| 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) | 14.17 |
| **Continuous Current carrying capacities** | |
| a) In Ground at 30°C (A) | 241 |
| b) In Air at 40°C (A) | 286 |
| 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 | 42.0 ± 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) | 13,500 |
| Embossing | POLYCAB ELECTRIC 1.9/3.3 KV (E) GRADE XLPE |
| Printing | YEAR POLYCAB ELECTRIC 1.9/3.3 KV (E) GRADE XLPE CABLE SIZE CABLE TYPE WITH SEQUENTIAL MARKING at every one meter interval. |
| 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

www.polycab.com | Toll Free No - 1800 267 0008 | Email: enquiry@polycab.com