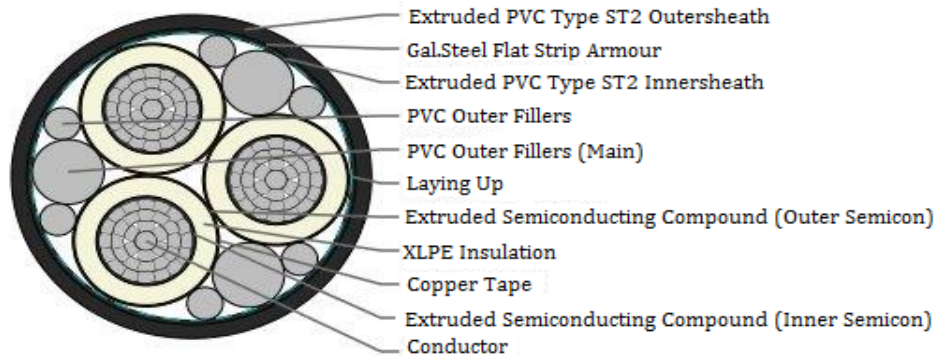


Manufacturing Data Sheet:
High Voltage XLPE Cable
Design Code : MVIS15AXSFY2003C300SA001S
Date :
Rev No. :


| S.No | Particulars | 3 X 300 MM ² |
|------|---|---|
| 1 | Name of Manufacturer | Polycab Wires Pvt. Ltd |
| 2 | Type of Cable | A2XFY |
| 3 | Voltage Grade kV | 3.8/6.6 |
| 4 | No of cores X size in sqmm | 3 X 300 |
| 5 a) | Maximum conductor temperature under normal operating conditions | 90°C |
| b) | Maximum conductor temperature at the termination of short circuit | 250°C |
| 6 a) | Permissible Voltage Variation | ± 10% |
| b) | Permissible Frequency Variation | ± 5% |
| c) | Combined Voltage & Frequency variation | ± 10% |
| 7 | Conductor | |
| a) | Material | H4 Grade Aluminium as per Class 2 of IS: 8130/84,latest |
| b) | Maximum d.c. resistance of conductor at 20° C (ohm/km) | 0.100 |
| c) | Shape | Stranded Compact Circular |
| 8 | Conductor Screening | |
| a) | Material | Extruded Semi-conducting Compound |
| b) | Nominal thickness (mm) | 0.3 |
| 9 | Insulation | |
| a) | Material | XLPE as per IS 7098(Pt-2)/2011, latest |
| b) | Nominal thickness (mm) | 3.0 |
| c) | Core Identification | By coloured strips (Red, Yellow & Blue) |
| 10 | Insulation Screening | |
| (i) | Non - Metallic | |
| a) | Material | Extruded Semi-conducting Compound |
| b) | Nominal thickness (mm) | 0.3 |
| (ii) | Metallic | |
| a) | Material | Single layer of copper tape |
| | Inner Sheath | |

| S.No | Particulars | 3 X 300 MM ² |
|------|--|---|
| a) | Material | Extruded PVC Type ST2 to IS:5831/84 |
| b) | Minimum thickness (mm) | 0.7 |
| 12 | Armouring | |
| a) | Material | Gal.Steel |
| b) | Type of armouring | Flat Strip |
| c) | Nominal size of armour (mm) ± 10% | 4.0 x 0.8 |
| 13 | Outer Sheath | |
| a) | Material | Extruded PVC Type ST2 to IS:5831/84 |
| b) | Thickness (mm) | 2.52 (Min.) |
| c) | Outer Sheath Colour | Black |
| 14 | Electrical Parameters | |
| a) | Max. a.c. resistance of conductor at 90° C (ohm/km) | 0.130 |
| b) | Approx. Cable Capacitance (mfd/km) | 0.52 |
| c) | Approx. Cable reactance (ohm/km) | 0.0826 |
| d) | Impedance of cable (ohm/km) | 0.154 |
| 15 | Continuous Current carrying capacities :- | |
| (a) | In Ground at 30°C (A) | 354 |
| (b) | In Air at 40°C (A) | 440 |
| 16 | Short Circuit rating of conductor for the duration of 1 sec (kA) | 28.35 |
| 17 | Standard to which the cables confirm | IS 8130/84,IS 7098 Part 2/2011, IS 5831/84, IS 3975/88 etc. with latest up to date amendments |
| 18 | Nominal Overall diameter (mm) | 68.0 ± 3.0 |
| 19 | Standard Drum Length with ± 5% tolerance (m) | 500 ± 5% |
| 20 | Non-Standard Drum Length mtrs | Max. 5% Order Quantity |
| 22 | Printing | YEAR POLYCAB ELECTRIC 3.8/6.6 KV (E) GRADE XLPE, CABLE SIZE, CABLE TYPE WITH SEQUENTIAL MARKING at every one meter interval. |

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