



LT XLPE CABLE

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| Particulars | | 3 Core X 2.5 Sq.mm |
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| Name of Manufacturer | | Polycab India Ltd. |
| Type of cable | | 2XWY |
| Voltage Grade V | | 1100 |
| No of cores X size in sqmm | | 3 Core X 2.5 Sq.mm |
| Conductor | | |
| a) Material | | Plain annealed Copper as per Class 1 of IS:8130/2013 |
| b) Max. d.c. resistance of conductor at 20° C (ohm/km) | | 7.4100 |
| c) Shape of the conductor | | Solid Circular |
| Insulation | | |
| a) Material | | XLPE as per IS 7098(Pt-1)/88, Latest |
| b) Nominal thickness (mm) | | 0.7 |
| c) Core Identification | | Red, Yellow and Blue |
| 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) | | 1.400 |
| d) Tolerance | | +/- 0.040 |
| Outer Sheath | | |
| a) Material | | Extruded 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) | | 9.4500 |
| b) Calculated Cable reactance (ohm/km) | | 0.0983 |

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| c) | Impedance of cable (ohm/km) | 9.4500 |
| d) | Approx. Cable Capacitance (mfd/km) | 0.19 |
| | 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) | 0.36 |
| Continuous Current carrying capacities :- | | |
| (a) | In Ground at 30°C (A) | 34 |
| (b) | In Air at 40°C (A) | 30 |
| | Applicable Standard | IS 8130/2013, IS 7098 Part I/88, IS 5831/84, IS 3975/1999 etc. with latest up to date amendments |
| | Approx. overall diameter of the cable in mm | 13.5 +/- 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) | 375 |
| | Embossing | POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE |
| | Printing | YEAR POLYCAB ELECTRIC 1100 VOLTS 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.) | Maximum 5% of order quantity |