



## LT XLPE CABLE

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| Particulars  | 1 Core X 120 Sq.mm   |
|--|--|
| Name of Manufacturer                                   | Polycab India Ltd  |
| Type of cable  | A2XFaY   |
| Voltage Grade V  | 1100   |
| No of cores X size in sqmm                             | 1 Core X 120 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) | 0.25   |
| c) Shape of the conductor                              | Stranded Compacted Circular                                  |
| Insulation   |  |
| a) Material  | XLPE as per IS 7098(Pt-1)/88, Latest                         |
| b) Nominal thickness (mm)                              | 1.5  |
| 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 PVC Type 'ST2' as per IS:5831/ 84                   |
| b) Thickness (mm)                                      | 1.40 (Min.)  |
| c) Colour of outer sheath.                             | Black  |
| Electrical Parameters                                  |  |
| a) Max. a.c. resistance of conductor at 90° C (ohm/km) | 0.325  |
| b) Calculated Cable reactance (ohm/km)                 | 0.0904   |
| c) Impedance of cable (ohm/km)                         | 0.337  |
| d) Approx. Cable Capacitance (mfd/km)                  | 0.66   |

|   |       |
|---|-------|
| 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)  | 11.34 |

**Continuous Current carrying capacities :-**

|   |  |
|---|--|
| (a) In Ground at 30°C (A)                     | 230  |
| (b) In Air at 40°C (A)                        | 276  |
| Applicable Standard                           | IS 7098 Part I/88, IS 8130/2013, IS 5831/84 etc. with latest up to date amendments                                     |
| Approx. overall diameter of the cable in mm   | 20.5 +/- 2.0   |
| Minimum bending radius                        | 15 times Overall diameter  |
| Max. Tensile strength                         |  |
| (i) for Cables pulled with stocking (Newtons) | 9 x D <sup>2</sup> , D is the cable OD in mm   |
| (ii) for Cables pulled with pulling eyes (N)  | 3,600  |
| 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   |