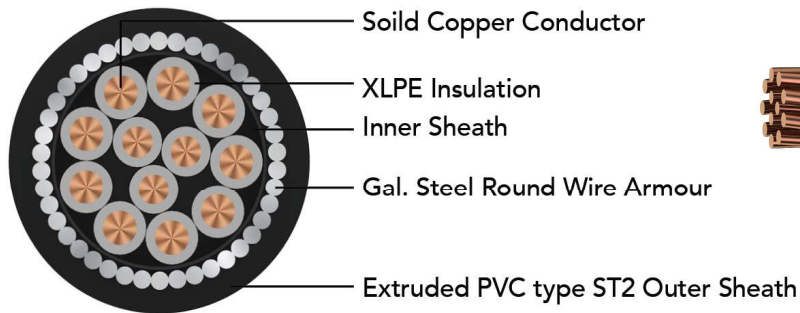




## LT XLPE CABLE

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| Particulars                |                                                     | 7 Core X 1.5 Sq.mm                                   |
|----------------------------|-----------------------------------------------------|------------------------------------------------------|
| Name of Manufacturer       |                                                     | Polycab India Ltd.                                   |
| Type of cable              |                                                     | 2XWY                                                 |
| Voltage Grade V            |                                                     | 1100                                                 |
| No of cores X size in sqmm |                                                     | 7 Core X 1.5 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) | 12.10                                                |
| 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                                 | All cores Grey with number printing                  |
| 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)                         | 1.4                                                  |
| 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) | 15.4                                                 |
| b)                         | Calculated Cable reactance (ohm/km)                 | 0.106                                                |
| c)                         | Impedance of cable (ohm/km)                         | 15.400                                               |

|                                                                   |                                                                                                                              |
|-------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| d) Approx. Cable Capacitance (mfd/km)                             | 0.160                                                                                                                        |
| 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)  | 0.21                                                                                                                         |
| <b>Continuous Current carrying capacities :-</b>                  |                                                                                                                              |
| (a) In Ground at 30°C (A)                                         | 20                                                                                                                           |
| (b) In Air at 40°C (A)                                            | 18                                                                                                                           |
| 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                       | 15.0 +/- 2.0                                                                                                                 |
| Minimum bending radius                                            | 12 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)                      | 525                                                                                                                          |
| Embossing                                                         | POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE                                                                                       |
| Printing                                                          | YEAR POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE<br>CABLE SIZE CABLE TYPE WITH SEQUENTIAL MARKING<br>at every one meter interval. |
| Standard Drum Length (Mtr.)                                       | 1000 ± 5%                                                                                                                    |
| Non- Standard Drum Length (Mtr.)                                  | Maximum 5% of order quantity                                                                                                 |