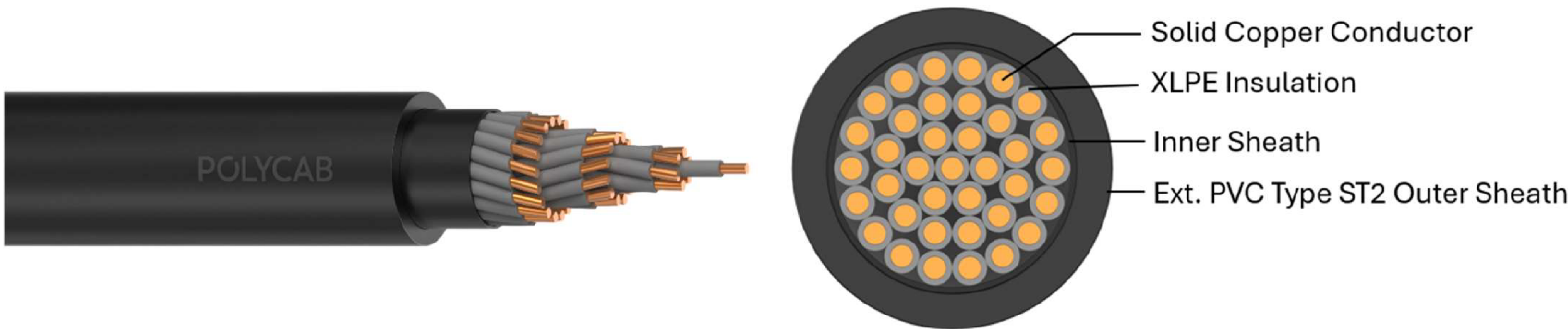




LT XLPE CABLE

TDS Doc.No:PIL/TE/250425/002873

DESIGN CODE : LVIS09CXUAY2037C2.5SA001S

| Particulars                                                       |                                                     | 37 Core X 2.5 Sq.mm                                  |
|-------------------------------------------------------------------|-----------------------------------------------------|------------------------------------------------------|
| Name of Manufacturer                                              |                                                     | Polycab India Ltd.                                   |
| Type of cable                                                     |                                                     | 2XY                                                  |
| Voltage Grade V                                                   |                                                     | 1100                                                 |
| No of cores X size in sqmm                                        |                                                     | 37 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) | 7.41                                                 |
| 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                                                         |                                                     | Not Applicable                                       |
| Outer Sheath                                                      |                                                     |                                                      |
| a)                                                                | Material                                            | Extruded PVC Type ST2 as per IS:5831/84              |
| b)                                                                | Thickness (mm)                                      | 2.0 (Nom.)                                           |
| c)                                                                | Colour of outer sheath.                             | Black                                                |
| Electrical Parameters                                             |                                                     |                                                      |
| a)                                                                | Max. a.c. resistance of conductor at 90° C (ohm/km) | 9.5                                                  |
| b)                                                                | Calculated Cable reactance (ohm/km)                 | 0.098                                                |
| c)                                                                | Impedance of cable (ohm/km)                         | 9.5                                                  |
| 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)                     | 14                                                                                                                           |
| (b) In Air at 40°C (A)                        | 13                                                                                                                           |
| 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   | 27.0 ± 2.0                                                                                                                   |
| Minimum bending radius                        | 12 times Overall diameter                                                                                                    |
| Max. Tensile strength                         |                                                                                                                              |
| (i) for Cables pulled with stocking (Newtons) | 5 x D <sup>2</sup> , D is the cable OD in mm                                                                                 |
| (ii) for Cables pulled with pulling eyes (N)  | 4625                                                                                                                         |
| 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.)                   | 500 ± 5%                                                                                                                     |
| Non- Standard Drum Length (Mtr.)              | Maximum 5% of order quantity                                                                                                 |