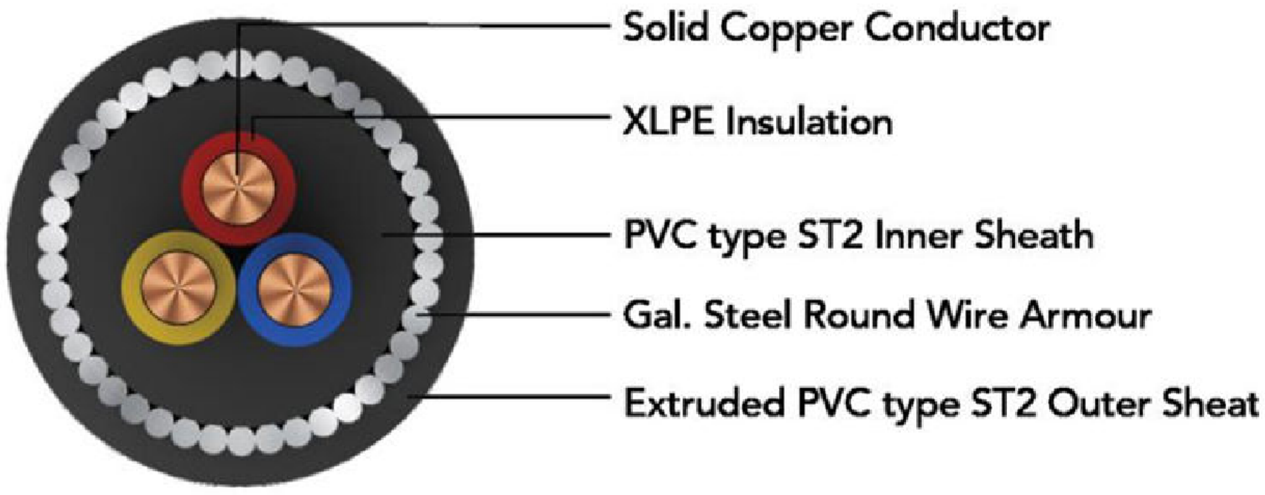
CABLES

POLYCAB





LT XLPE CABLE

TDS Doc.No:PIL/TE/250425/000026

DESIGN CODE: LVIS09CXSWY2003C004SA002S

Particulars	3 Core X 4 Sq.mm
Name of Manufacturer	Polycab India Ltd
Type of cable	2XWY
Voltage Grade V	1100
No of cores X size in sqmm	3 Core X 4 Sq.mm
Conductor	
Material	Plain annealed Copper as per Class 1 of IS:8130/2013, latest
Max. D.C. resistance of conductor at 20° C (ohm/km)	4.61
Shape of the conductor	Solid Circular
Insulation	
Material	XLPE as per IS 7098(Pt-1)/88, Latest
Nominal thickness (mm)	0.7
Core identification	Red,Yellow,Blue
Inner Sheath	
Material	Extruded PVC Type ST2 as per IS:5831/84
Minimum thickness (mm)	0.3
Armouring	
Material	Galvanised Steel
Type of armouring	Round Wire
Nominal size of armour (mm)	1.4
Tolerance on armour dimensions	± 0.040 mm
Outer Sheath	
Material	Extruded PVC Type 'ST2' as per IS:5831/ 84
Thickness (mm)	1.24 (Min.)
Colour of outer sheath.	Black
Electrical Parameters	
Max. a.c. resistance of conductor at 90° C (ohm/km)	5.88
Calculated Cable reactance (ohm/km)	0.0919
Impedance of cable (ohm/km)	5.88
Approx. Cable Capacitance (mfd/km)	0.23

Format ID: TE/QMS/F/07, R-00, Date: 16/03/2025

CABLES

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)	0.57
Continuous Current carrying capacities :-	
In Ground at 30°C(A)	45
In Air at 40°C (A)	41
Applicable Standard	IS 7098 Part I/88,IS 8130/2013,IS 5831/84, IS 3975/1999 etc. with latest up to date amendments
Approx. overall diameter of the cable in mm	14.0 +/- 2.0
Minimum bending radius	12 times Overall diameter
Max. Tensile strength	
for Cables pulled with stocking (Newtons)	9 x D^2, D is the cable OD in mm
for Cables pulled with pulling eyes (N)	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

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

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