



## LT XLPE CABLE

TDS Doc.No:PIL/TE/250425/002813

DESIGN CODE : LVIS09CXSWY2008C2.5SA001S

Particulars		8 Core X 2.5 Sq.mm
Name of Manufacturer		Polycab India Ltd.
Type of cable		2XWY
Voltage Grade V		1100
No of cores X size in sqmm		8 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		
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)		9.5
b) Calculated Cable reactance (ohm/km)		0.098
c) Impedance of cable (ohm/km)		9.450

d) Approx. Cable Capacitance (mfd/km)	0.190
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
<b>Continuous Current carrying capacities :-</b>	
(a) In Ground at 30°C (A)	23
(b) In Air at 40°C (A)	20
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	17.0 +/- 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)	1000
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