



LT XLPE CABLE

TDS Doc.No:PIL/TE/250425/001663

DESIGN CODE : LVIS09AXUAY23.5C630SA002S

Particulars		3.5 Core X 630 Sq.mm	
Name of Manufacturer		Polycab India Ltd	
Type of cable		A2XY	
Voltage Grade V		1100	
No of cores X size in sqmm		3.5 Core X 630 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)	Main	0.0469
		Neutral	0.100
c)	Shape of the conductor	Stranded Compacted Sector	
Insulation			
a)	Material	XLPE as per IS 7098(Pt-1)/88, Latest	
b)	Nominal thickness (mm)	Main	2.4
		Neutral	1.8
c)	Core identification	Red, Yellow, Blue, Black	
Inner Sheath			
a)	Material	Extruded PVC Type ST2 as per IS:5831/84	
b)	Minimum thickness (mm)	0.7	
Outer Sheath			
a)	Material	Extruded PVC Type 'ST2' as per IS:5831	
b)	Thickness (mm)	4.0 (Nom.)	
c)	Colour of outer sheath.	Black	
Electrical Parameters			
a)	Max. a.c. resistance of conductor at 90° C (ohm/km)	0.0644	
b)	Calculated Cable reactance (ohm/km)	0.0697	
c)	Impedance of cable (ohm/km)	0.0949	
d)	Approx. Cable Capacitance (mfd/km)	0.00	
Maximum conductor temperature under normal operating conditions		90°C	

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Maximum conductor temperature at the termination of short circuit	250°C
Short Circuit rating of conductor for the duration of 1 sec (kA)	59.52
Continuous Current carrying capacities :-	
(a) In Ground at 30°C (A)	542
(b) In Air at 40°C (A)	712
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	82.0 ± 3.0
Minimum bending radius	12 times Overall diameter
Max. Tensile strength	
(i) for Cables pulled with stocking (Newtons)	5 x D ² , D is the cable OD in mm
ii) for Cables pulled with pulling eyes (N)	65,700
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.)	500 ± 5%
Non-Standard Drum Length (Mtr.)	Maximum 5% of order quantity