



LT XLPE CABLE

TDS Doc.No:PIL/TE/250425/000643

DESIGN CODE : LVIS09CXUAY23.5C070SA001S

Particulars		3.5 Core X 70 Sq.mm	
Name of Manufacturer		Polycab India Ltd	
Type of cable		2XY	
Voltage Grade V		1100	
No of cores X size in sqmm		3.5 Core X 70 Sq.mm	
Conductor			
a)	Material	Plain annealed Copper as per Class 2 of IS:8130/2013, latest	
b)	Max. d.c. resistance of conductor at 20° C (ohm/km)	Main	0.268
		Neutral	0.524
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	1.1
		Neutral	0.9
c)	Core identification	Red, Yellow, Blue, Black	
Inner Sheath			
a)	Material	Extruded PVC Type ST2 as per IS:5831/84	
b)	Minimum thickness (mm)	0.4	
Outer Sheath			
a)	Material	Extruded PVC Type 'ST2' as per IS:5831	
b)	Thickness (mm)	2.2 (Nom.)	
c)	Colour of outer sheath.	Black	
Electrical Parameters			
a)	Max. a.c. resistance of conductor at 90° C (ohm/km)	0.342	
b)	Calculated Cable reactance (ohm/km)	0.0742	
c)	Impedance of cable (ohm/km)	0.350	
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) 10.02

Continuous Current carrying capacities :-

(a) In Ground at 30°C (A) 212

(b) In Air at 40°C (A) 226

Applicable Standard IS 7098 Part I/88, IS 8130, IS 5831 etc. with latest up to date amendments

Approx. overall diameter of the cable in mm 29.5 +/- 2.0

Minimum bending radius 12 times Overall diameter

Max. Tensile strength

(i) for Cables pulled with stocking (Newtons) $5 \times D^2$, D is the cable OD in mm

(ii) for Cables pulled with pulling eyes (N) 12,250

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