





Stranded Copper Conductor

XLPE Insulation Inner Sheath

Gal. Steel Round Wire Armour



Extruded FR-LSH PVC type ST2 Outer Sheath

LT XLPE CABLE

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	Particulars		6 Core X 2.5 Sq.mm
	Name of Manufacturer		Polycab India Ltd.
	Туре с	of cable	2XWY
	Voltag	ge Grade V	1100
	No of	cores X size in sqmm	6 Core X 2.5 Sq.mm
	Cond	luctor	
	a)	Material	Plain annealed Copper as per Class 2 of IS:8130/2013
	b)	Max. d.c. resistance of conductor at 20° C (ohm/km)	7.41
	c)	Shape of the conductor	Stranded Circular
Insulation		ation	
	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	r Sheath	
	a)	Material	Extruded PVC Type ST2 as per IS:5831/84
	b)	Minimum thickness (mm)	0.3
۰	Armo	ouring	
	a)	Material	Galvanised Steel
	b)	Type of armouring	Round Wire
	c)	Nominal size of armour (mm)	1.4
	d)	Tolerance	+/- 0.040
	Oute	r Sheath	
	a)	Material	Extruded FR-LSH PVC Type ST2 as per IS:5831/84
	b)	Thickness (mm)	1.24 (Min.)
	c)	Colour of outer sheath.	Black
۰	Electrical Parameters		
	a)	Max. a.c. resistance of conductor at 90° C (ohm/km)	9.5
	b)	Calculated Cable reactance (ohm/km)	0.099
	c)	Impedance of cable (ohm/km)	9.450





Approx. Cable Capacitance (mfd/km) 0.210 Maximum conductor temperature under normal 90°C operating conditions Maximum conductor temperature at the termination of 250°C short circuit Short Circuit rating of conductor for the duration of 1 sec 0.36 (kA) **Continuous Current carrying capacities:** In Ground at 30°C (A) 31 27 (b) In Air at 40°C (A) IS 8130/2013,IS 7098 Part I/88, IS 5831/84, IS Applicable Standard 3975/1999 etc. with latest up to date amendments Approx. overall diameter of the cable in mm 16.5 + / - 2.0Minimum bending radius 12 times Overall diameter Max. Tensile strength for Cables pulled with stocking (Newtons) $9 \times D^2$, D is the cable OD in mm for Cables pulled with pulling eyes (N) 750 (ii) **Embossing** POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE FR-LSH YEAR POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE FR-Printing LSH 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 **FR-LSH PROPERTIES** Oxygen Index Min. 29% as per ASTM D- 2863 a) Temperature Index Min. 250 Deg.C as per ASTM D-2863 b) c) **Smoke Density Rating** Max. 60% as per ASTM D- 2843 Acid Gas Generation Max. 20% as per IEC- 754-1 d)

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As per IEC:332-I

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

Flammability Test

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