







LT XLPE CABLE

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Particulars	3 Core X 70 Sq.mm	
Name of Manufacturer	Polycab India Ltd	
Type of cable	2XFY	
Voltage Grade V	1100	
No of cores X size in sqmm	3 Core X 70 Sq.mm	
Conductor		
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)	0.268	
c) Shape of the conductor	Stranded Compacted Sector	
Insulation		
a) Material	XLPE as per IS 7098(Pt-1)/88, Latest	
b) Nominal thickness (mm)	1.1	
c) Core identification	Red, Yellow, Blue	
Inner Sheath		
a) Material	Extruded PVC Type ST2 as per IS:5831/84	
b) Minimum thickness (mm)	0.4	
Armouring		
a) Material	Galvanised Steel	
b) Type of armouring	Flat Strip	
c) Nominal size of armour (mm)	4.0×0.8	
d) Tolerance on armour dimensions	± 10%	
Outer Sheath		
a) Material	Extruded FR-LSH PVC Type 'ST2' as per IS:5831/ 84	
b) Thickness (mm)	1.56 (Min.)	
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)	0.56	

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	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)	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 8130/2013,IS 5831/84, IS 3975/1999 etc. with latest up to date amendments
	Approx. overall diameter of the cable in mm	29.0 ± 2.0
	Minimum bending radius	12 times Overall diameter
	Max. Tensile strength	
	i) for Cables pulled with stocking (Newtons)	9 x D ² , D is the cable OD in mm
	ii) for Cables pulled with pulling eyes (N)	10,500
	Embossing Printing	POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE FR-LSH YEAR POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE FR-LSH 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
FR-LSH Properties		
	a) Oxygen Index	Min. 29% as per ASTM D- 2863
	b) Temperature Index	Min. 250 Deg.C as per ASTM D- 2863
	c) Smoke Density Rating	Max. 60% as per ASTM D- 2843
	d) Acid Gas Generation	Max. 20% as per IEC- 754- 1
	e) Flammability test	As per IEC:332-I

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