







LT XLPE CABLE

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	Particulars	12 X 1.5
	Name of Manufacturer	Polycab India Limited
	Type of cable	2XFY
	Voltage Grade V	1100
	No of cores X size in sqmm	12 X 1.5
	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)	12.1
c)	Shape of the conductor	Stranded 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
b)	Minimum thiolmana (mm)	IS:5831/84 0.3
b)	Minimum thickness (mm) Armouring	0.3
a)	Material	Galvanised Steel
b)	Type of armouring	Flat strip
c)	Nominal size of armour (mm)	4 x 0.8
d)	Tolerance	± 10 %
<i>a</i>)	Outer Sheath	- 13 /0
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
,	Electrical Parameters	
a)	Max. a.c. resistance of conductor at 90° C (ohm/km)	15.4
b)	Calculated Cable reactance (ohm/km)	0.105
c)	Impedance of cable (ohm/km)	15.4
ď)	Approx. Cable Capacitance (mfd/km)	0.18
ŕ	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)	0.21		
		Continuous Current carrying capacities:			
	(a)	In Ground at 30°C (A)	16		
	(b)	In Air at 40°C (A)	14		
		Applicable Standard Approx. overall diameter of the cable in mm Minimum bending radius	Generally as per IS 7098 Part I/88, IS 8130/2013,IS 5831/84, IS 3975/88 etc. with latest up to date amendments 17.5 ± 2 12 times Overall diameter		
	(:)	Max. Tensile strength	0 D2 D : (111 OD :		
	(i)	for Cables pulled with stocking (Newtons)	$9 \times D^2$, D is the cable OD in mm		
	(ii)	for Cables pulled with pulling eyes (N)	900		
		Embossing	POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE FR-LSH		
		Printing Standard Drum Langth (Mtn.)	YEAR POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE FR-LSH CABLE SIZE CABLE TYPE WITH SEQUENTIAL MARKING at every one meter interval. 1000 ± 5%		
		Standard Drum Length (Mtr.) Non- Standard Drum Length (Mtr.)			
		FR-LSH PROPERTIES	Maximum 5% of order quantity		
	0)	Oxygen Index	Min. 29% as per ASTM D- 2863		
	a) b)	Temperature Index	Min. 25% as per ASTM D- 2863 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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