







LT XLPE CABLE

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	Particulars	4 Core X 120 Sq.mm
	Name of Manufacturer	Polycab India Ltd.
	Type of cable	2XFY
	Voltage Grade V	1100
	No of cores X size in sqmm	4 Core X 120 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)	0.153
c)	Shape of the conductor	Stranded Compacted Sector
	Insulation	
a)	Material	XLPE as per IS 7098(Pt-1)/88, Latest
b)	Nominal thickness (mm)	1.2
c)	Core Identification	Red,Yellow, Blue & Black
	Inner Sheath	
a)	Material	Extruded PVC Type ST2 as per IS:5831/84
b)	Minimum thickness (mm)	0.5
	Armouring	
a)	Material	Galvanised Steel
b)	Type of armouring	Flat Strip
c)	Nominal size of armour (mm)	4.0×0.8
<u>d)</u>	Tolerance on armour dimensions	± 10%
	Outer Sheath	
a)	Material	Extruded FR-LSH PVC Type ST2 as per IS:5831/84
b)	Thickness (mm)	1.72 (Min.)
c)	Colour of outer sheath.	Black
	Electrical Parameters	
a)	Max. a.c. resistance of conductor at 90° C (ohm/km)	0.196
b)	Calculated Cable reactance (ohm/km)	0.0713
c)	Impedance of cable (ohm/km)	0.209
d	Approx. Cable Capacitance (mfd/km)	0.66
	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)	17.17	
		Continuous Current carrying capacities :-		
	(a)	In Ground at 30°C (A)	287	
	(b)	In Air at 40°C (A)	320	
		Applicable Standard	IS 8130/2013,IS 7098 Part I/88, IS 5831/84, IS 3975/1999 etc. with latest up to date amendments	
		Approx. overall diameter of the cable in mm	40.0 +/-2.0	
		Minimum bending radius Max. Tensile strength	12 times Overall diameter	
	(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)	24000	
		Embossing	POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE FR-LSH YEAR POLYCAB ELECTRIC 1100 VOLTS	
		Printing	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	The state of the s	
	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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