







LT XLPE CABLE

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Particulars	3.5 Core X 185 Sq.mm
Name of Manufacturer	Polycab India Ltd 2XFY
Type of cable	1100
Voltage Grade V No of cores X size in sqmm	
Conductor	3.5 Core X 185 Sq.mm
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	0.0991
Neutral	0.193
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	1.6
Neutral	1.1
c) Core identification	Red,Yellow,Blue,Black
Inner Sheath	Extended DVC Type STO on par
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
d) Tolerance on armour dimensions	± 10%
Outer Sheath	
a) Material	Extruded FR-LSH PVC Type 'ST2' as per IS:5831
b) Thickness (mm)	1.88 (Min.)
c) Colour of sheath	Black
Electrical Parameters	
Max. a.c. resistance of conductor at 90° C	0.128
(onm/km)	
b) Calculated Cable reactance (ohm/km)	0.072
c) Impedance of cable (ohm/km)	0.147

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CABLES

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Approx. Cable Capacitance (mfd/km)	0.63
Maximum conductor temperature under normal operating conditions	90°C
termination of short circuit	250°C
of 1 sec (kA)	26.47
Continuous Current carrying capacities:	
In Ground at 30°C (A)	362
In Air at 40°C (A)	422 IS 7098 Part I/88, IS 8130, IS 5831, IS
Applicable Standard	3975 etc. with latest up to date amendments
Approx overall diameter of the cable in mm	46.0 +/- 2.0
Minimum bending radius	12 times Overall diameter
Max. Tensile strength	
for Cables pulled with stocking (Newtons)	9 x D ² , D is the cable OD in mm
for Cables pulled with pulling eyes (N)	32500
Embossing	POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE FR-LSH
	YEAR POLYCAB ELECTRIC 1100 VOLTS
	GRADE XLPE FR-LSH CABLE SIZE
Printing	CABLE TYPE WITH SEQUENTIAL
	MARKING at every one meter interval.
Standard Drum Length (Mtr.)	500 ± 5%
<u> </u>	Maximum 5% of order quantity
FR-LSH PROPERTIES	
Oxygen Index	Min. 29% as per ASTM D- 2863
Temperature Index	Min. 250 Deg.C as per ASTM D- 2863
Smoke Density Rating	Max. 60% as per ASTM D- 2843
	Max. 20% as per IEC- 754- 1
Flammability Test	As per IEC:332-I
	Approx. Cable Capacitance (mfd/km) Maximum conductor temperature under normal operating conditions Maximum conductor temperature at the termination of short circuit Short Circuit rating of conductor for the duration of 1 sec (kA) Continuous Current carrying capacities: In Ground at 30°C (A) In Air at 40°C (A) Applicable Standard Approx. overall diameter of the cable in mm Minimum bending radius Max. Tensile strength for Cables pulled with stocking (Newtons) for Cables pulled with pulling eyes (N) Embossing Printing Standard Drum Length (Mtr.) Non-Standard Drum Length (Mtr.) FR-LSH PROPERTIES Oxygen Index Temperature Index

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