



LT XLPE CABLE

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Particulars	19 Core X 2.5 Sq.mm
Name of Manufacturer	Polycab India Ltd
Type of cable	2XFY
Voltage Grade V	1100
No of cores X size in sqmm	19 Core X 2.5 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)	7.41
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	Wrapping of Tapes
b) Minimum thickness (mm)	0.3
Armouring	
a) Material	Galvanised Steel
b) Type of armouring	Flat Strip
c) Nominal size of armour (mm)	4.0 x 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)	1.40 (Min.)
c) Colour of outer sheath.	Black
Electrical Parameters	
a) Max. a.c. resistance of conductor at 90° C (ohm/km)	9.45
b) Calculated Cable reactance (ohm/km)	0.099
c) Impedance of cable (ohm/km)	9.45
d) Approx. Cable Capacitance (mfd/km)	0.21

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

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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)	0.36

Continuous Current carrying capacities :-

a) In Ground at 30°C (A)	18
b) In Air at 40°C (A)	16
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	22.5 +/- 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)	2,375
Embossing	POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE FR-LSH
Printing	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.)	1000 ± 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