



## FIRE ALARM CABLE

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<b>Particulars</b>	<b>2 X 1.5 Sq.mm</b>
Name of Manufacturer	Polycab India Ltd
Type of cable	Fire Alarm cable
Voltage Grade V	1100
No of cores X size in sqmm	2 X 1.5
<b>Conductor</b>	
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
<b>Insulation</b>	
a) Material	XLPE as per IS 7098(Pt-1)/88, Latest
b) Minimum thickness (mm)	0.44
c) Core Identification	Red & Black
<b>Inner Sheath</b>	
a) Material	Extruded Black PVC Type ST2 as per IS: 5831/84
b) Minimum thickness (mm)	0.3
<b>Armouring</b>	
a) Material	Galvanised Steel
b) Type of armouring	Round Wire
c) Nominal size of armour (mm)	0.9
d) Tolerance	± 0.030 mm
<b>Outer Sheath</b>	
a) Material	Extruded FR-LSH PVC Type ST2 as per IS: 5831/84
b) Thickness (mm)	1.24 (Min.)
c) Colour of outer sheath	Red
<b>Electrical Parameters</b>	
a) Max. a.c. resistance of conductor at 90° C (ohm/km)	15.4

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

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b) Maximum conductor temperature under normal operating conditions	90°C
c) Maximum conductor temperature at the termination of short circuit	250°C
d) Short Circuit rating of conductor for the duration of 1 sec (kA)	0.21
Dielectric strength for 1 minute (H.V Test) kV	2
<b>Continuous Current carrying capacities</b>	
a) In Ground at 30°C (A)	31
b) In Air at 40°C (A)	27
Applicable Standard	Generally as per IS 7098 Part I/88, IS 8130/2013, IS 5831/84, IS 3975/88 etc. with latest up to date amendments
Approx. Overall diameter of the cable in mm	11.0 ± 2.0
Minimum bending radius	12 times Overall diameter
Max. Tensile strength	
a) for Cables pulled with stocking (Newtons)	9 x D <sup>2</sup> , D is the cable OD in mm
b) for Cables pulled with pulling eyes (N)	150
Printing	YEAR POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE FR-LSH, CABLE SIZE, "FIRE ALARM CABLE" WITH SEQUENTIAL MARKING at every one meter interval.
Standard Drum Length (Mtr.)	1000 ± 5%
Non-Standard Drum Length (Mtr.)	Maximum 5% of order quantity
<b>FR-LSH PROPERTIES:</b>	
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:332-1