





- Stranded Copper Conductor

XLPE Insulation

PVC type ST2 Inner Sheath

Gal. Steel Round Wire Armour

Extruded FR – LSH PVC type ST2 Outer Sheath



LT XLPE CABLE

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Parti	culars	3 Core X 2.5 Sq.mm		
	of Manufacturer	Polycab India Ltd.		
	of cable	2XWY		
	ge Grade V	1100		
_	cores X size in sqmm	3 Core X 2.5 Sq.mm		
Conductor				
-1	Matarial	Dla in annual of Campanana and Class 2 of IC 0420/2042		
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)	7.4100		
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	Red,Yellow and Blue		
Inner Sheath				
a)	Material	Extruded PVC Type ST2 as per IS:5831/84		
b)	Minimum thickness (mm)	0.3		
Armouring				
a)	Material	Galvanised Steel		
b)	Type of armouring	Round Wire		
c)	Nominal size of armour (mm)	1.400		
d)	Tolerance	+/- 0.040		
Oute	er Sheath			
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)	9.4500		
b)	Calculated Cable reactance (ohm/km)	0.0990		





c) Impedance of cable (ohm/km)	9.4500
d Approx. Cable Capacitance (mfd/km)	0.21
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)	34
(b) In Air at 40°C (A)	30
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	13.5 +/- 2.0
Minimum bending radius	12 times Overall diameter
Max. Tensile strength	
(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)	375
Embossing	POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE FR-LSH
	YEAR POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE FF

LSH CABLE SIZE CABLE TYPE WITH SEQUENTIAL

MARKING at every one meter interval.

Maximum 5% of order quantity

 $1000 \pm 5\%$

FR-LSH	PROPERT	ΓIES
	I ROLLIN	

Standard Drum Length (Mtr.)

Non-Standard Drum Length (Mtr.)

Printing

a) Oxygen Index
b) Temperature Index
c) Smoke Density Rating
d) Acid Gas Generation
e) Flammability Test
Min. 29% as per ASTM D- 2863
Max. 60% as per ASTM D- 2843
Max. 20% as per IEC- 754- 1
As per IEC:332-I

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