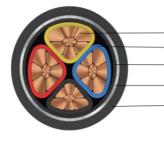


CABLES



Stranded Copper Conductor
XLPE Insulation
Inner Sheath
Gal. Steel Flat Strip Armour

Extruded FR-LSH PVC type ST2 Outer Sheath



LT XLPE CABLE

Document ID: TE/QMS/F/02

DESIGN CODE: LVIS09CXSFYL3.5C120SA001S

	Particulars	3.5 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	3.5 Core X 120 Sq.mm	
	Conductor		
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	0.153	
	Neutral	0.268	
C)	Shape of the conductor	Stranded Compacted Sector	
0)	Insulation Material	XLPE as per IS 7098(Pt-1)/88, Latest	
a) b)	Nominal thickness (mm) Main	1.2	
D)	Neutral	1.1	
c)	Core identification	Red, Yellow, Blue, Black	
	Inner Sheath		
a)	Material	Extruded PVC Type ST2 as per IS:5831/84	
b)	Minimum thickness (mm) Armouring	0.4	
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	
b)	Thickness (mm)	1.72 (Min.)	
c)	Colour of 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	
Rev.No.:00 Issued Date:02/04/2018			

Note: -The values given above are subject to tolerances as per the relevant standards. www.polycab.com | Toll Free No - 1800 267 0008 | Email: enquiry@polycab.com



	onnection Zindagi Ka				
	d)	Approx. Cable Capacitance (mfd/km)	0.67		
		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)	17.17		
ł		Continuous Current carrying capacities :-			
	(a)	In Ground at 30°C (A)	287		
	(b)	In Air at 40°C (A)	320		
		Applicable Standard	IS 7098 Part I/88, IS 8130, IS 5831, IS 3975 etc. with latest up to date amendments		
		Approx. overall diameter of the cable in mm Minimum bending radius	38.0 +/- 2.0 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)	21500		
		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%		
ł		Non-Standard Drum Length (Mtr.) FR-LSH PROPERTIES	Maximum 5% of order quantity		
	a) b) c) d) e)	Oxygen Index Temperature Index Smoke Density Rating Acid Gas Generation Flammability Test	Min. 29% as per ASTM D- 2863 Min. 250 Deg.C 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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