





Stranded Aluminium Conductor

XLPE Insulation

- Inner Sheath

- Gal. Steel Flat Strip Armour



Extruded FR-LSH PVC type ST2 Outer Sheath

LT XLPE CABLE

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Part	iculars	4 Core X 240 Sq.mm		
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Name of Manufacturer		Polycab India Ltd		
Type of cable		A2XFY		
Voltage Grade V		1100		
No of cores X size in sqmm		4 Core X 240 Sq.mm		
Conductor				
a)	Material	H2/H4 Grade Aluminium as per Class 2 of IS: 8130/2013, latest		
b)	Max. d.c. resistance of conductor at 20° C (ohm/km)	0.125		
c)	Shape of the conductor	Stranded Compacted Sector		
Insulation				
a)	Material	XLPE as per IS 7098(Pt-1)/88, Latest		
b)	Nominal thickness (mm)	1.7		
c)	Core identification	Red,Yellow,Blue,Black		
Inner Sheath				
a)	Material	Extruded PVC Type ST2 as per IS:5831/84		
b)	Minimum thickness (mm)	0.6		
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)	2.20 (Min.)		
c)	Colour of outer sheath.	Black		
Electrical Parameters				
a)	Max. a.c. resistance of conductor at 90° C (ohm/km)	0.162		
b)	Calculated Cable reactance (ohm/km)	0.0713		





c)	Impedance of cable (ohm/km)	0.177	
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)		22.68	
Continuous Current carrying capacities:-			
(a)	In Ground at 30°C (A)	327	
(b)	In Air at 40°C (A)	392	
Applicable Standard		IS 7098 Part I/88, IS 8130/2013, IS 5831/84, IS 3975/1999 etc. with latest up to date amendments	
Approx. overall diameter of the cable in mm		54.0 +/- 2.0	
Minim	um bending radius	12 times Overall diameter	
Max. T	ensile 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)	28,800	
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.)		500 ± 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	

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