





Stranded Aluminium Conductor

XLPE Insulation
Extruded Inner Sheath
Gal. Steel Flat Strip Armour



- Extruded FR-LSH PVC Type ST2 Outer sheath

LT XLPE CABLE

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Part	iculars	3 Core X 50 Sq.mm		
Name of Manufacturer		Polycab India Ltd		
Type of cable		A2XFY		
Voltage Grade V		1100		
No of cores X size in sqmm		3 Core X 50 Sq.mm		
Con	ductor			
a)	Material	H2/H4 Grade Aluminium as per Class 2 of IS: 8130/20 latest		
b)	Max. d.c. resistance of conductor at 20° C (ohm/km)	0.641		
c)	Shape of the conductor	Stranded Compacted Sector		
Insulation				
a)	Material	XLPE as per IS 7098(Pt-1)/88, Latest		
b)	Nominal thickness (mm)	1.0		
c)	Core identification	Red,Yellow,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	Flat Strip		
c)	Nominal size of armour (mm)	4.0×0.8		
d)	Tolerance on armour dimensions	± 10%		
Out	er Sheath			
a)	Material	Extruded FR-LSH PVC Type 'ST2' as per IS:5831/84		
b)	Thickness (mm)	1.40 (Min.)		
c)	Colour of sheath	Black		
Electrical Parameters				
a)	Max. a.c. resistance of conductor at 90° C (ohm/km)	0.822		
b)	Calculated Cable reactance (ohm/km)	0.0780		





	c)	Impedance of cable (ohm/km)	0.826	
	d	Approx. Cable Capacitance (mfd/km)	0.53	
		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)	4.72	
	(a)	In Ground at 30°C (A)	134	
	(b)	In Air at 40°C (A)	138	
		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	25.5 +/- 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)	4,500	
		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	

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