





- 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 35 Sq.mm		
Name of Manufacturer		Polycab India Ltd		
Туре	of cable	A2XFY		
Voltage Grade V		1100		
No of cores X size in sqmm		3 Core X 35 Sq.mm		
Con	ductor			
a)	Material	H2/H4 Grade Aluminium as per Class 2 of IS: 8130/201 latest		
b)	Max. d.c. resistance of conductor at 20° C (ohm/km)	0.868		
c)	Shape of the conductor	Stranded Compacted Sector		
Insulation				
a)	Material	XLPE as per IS 7098(Pt-1)/88, Latest		
b)	Nominal thickness (mm)	0.9		
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%		
Outer 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)	1.11		
b)	Calculated Cable reactance (ohm/km)	0.0787		





c)	Impedance of cable (ohm/km)	1.11		
d	Approx. Cable Capacitance (mfd/km)	0.50		
	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)	3.31		
Conti	ontinuous Current carrying capacities:-			
(a)	In Ground at 30°C (A)	114		
(b)	In Air at 40°C (A)	114		
	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	22.5 +/- 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)	3,150		
	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-LS	H 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.