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**Cable Description:** 1100V, Solid Class 1 Copper Conductor, XLPE insulated, Extruded PVC Type ST2 inner sheath, Galvanised Round wire armour, Extruded FR-LSH PVC Type ST2 Outer sheath as per IS 7098 Part 1/1988

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	Technical Data of LT XLPE Cables	CABLE SIZE
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- 11	CABLE CODE	LVIS09CXSWYL003C006SA002S
	Particulars	3 Core X 6 Sq.mm
	Name of Manufacturer	Polycab India Ltd
	Type of cable	2XWY
	Voltage Grade V	1100
4	No of cores X size in sqmm	3 Core X 6 Sq.mm
5	Conductor	
a)	Material	Plain annealed Copper as per Class 1 of IS:8130/2013, latest
b)	Max. d.c. resistance of conductor at 20° C (ohm/km)	3.08
c)	Shape of the conductor	Solid Circular
	Insulation	Solid Circuidi
	Material	XLPE as per IS 7098(Pt-1)/88, Latest
b)	Nominal thickness (mm)	0.7
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	Core identification	Red,Yellow,Blue
	Inner Sheath	5
	Material	Extruded PVC Type ST2 as per IS:5831/84
	Minimum thickness (mm)	0.3
	Armouring	
	Material	Galvanised Steel
b)	Type of armouring	Round Wire
c)	Nominal size of armour (mm)	1.40
d)	Tolerance on armour dimensions	± 0.040 mm
9	Outer Sheath	
a)	Material	Extruded FR-LSH PVC Type 'ST2' as per IS:5831/ 84
	Thickness (mm)	1.24 (Min.)
c)	Colour of outer sheath.	Black
	Electrical Parameters	bluck
-10	Licetical Fullification	
a)	Max. a.c. resistance of conductor at 90° C (ohm/km)	3.93
b)	Calculated Cable reactance (ohm/km)	0.0872
c)	Impedance of cable (ohm/km)	3.93
	Approx. Cable Capacitance (mfd/km)	
u		0.26
11	Maximum conductor temperature under normal	90°C
	operating conditions	
12	Maximum conductor temperature at the termination of	250℃
	short circuit	
13	Short Circuit rating of conductor for the duration of 1	0.86
	sec (kA)	0.00
14	Continuous Current carrying capacities :-	
	In Ground at 30°C (A)	56
(b)	In Air at 40°C (A)	52
10	Applicable Standard	IS 7098 Part I/88,IS 8130/2013,IS 5831/84, IS 3975/1999 etc. with
15	Applicable Staticato	latest up to date amendments
16	Approx. overall diameter of the cable in mm	15.0 +/- 2.0
	Minimum bending radius	12 times Overall diameter
	Max. Tensile strength	
(i)	for Cables pulled with stocking (Newtons)	9 x D², D is the cable OD in mm
(ii)	for Cables pulled with pulling eyes (N)	900
19	Embossing	POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE FR-LSH
		YEAR POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE FR-LSH CABLE
20	Drinting	
20	Printing	SIZE CABLE TYPE WITH SEQUENTIAL MARKING at every one meter
		interval.
21	Standard Drum Length (Mtr.)	1000 ± 5%
	Non- Standard Drum Length (Mtr.)	Maximum 5% of order quantity
23	FR-LSH PROPERTIES	
a)	Oxygen Index	Min. 29% as per ASTM D- 2863
	Temperature Index	Min. 250 Deg.C as per ASTM D- 2863
c)	Smoke Density Rating	Max. 60% as per ASTM D- 2843
	Acid Gas Generation	Max. 20% as per IEC- 754- 1
	Flammability Test	As per IEC:332-I