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

I	Technical Data Sheet of LT XLPE Cable	CABLE SIZE
	CABLE CODE	LVIS09CXSFYL012C2.5SA004S
S.No	Particulars	12 Core X 2.5 Sq.mm
	Name of Manufacturer	Polycab India Ltd.
	Type of cable	2XFY
	Voltage Grade V	1100
	No of cores X size in sqmm	12 Core X 2.5 Sq.mm
	Conductor	
• /	Material	Plain annealed Copper as per Class 1 of IS:8130/2013
	Max. d.c. resistance of conductor at 20° C (ohm/km)	7.41
	Shape of the conductor	Solid Circular
	Insulation	
,	Material	XLPE as per IS 7098(Pt-1)/88, Latest
	Nominal thickness (mm)	0.7
,	Core Identification	All cores Grey with number printing
	Inner Sheath	
	Material	Wrapping of Tapes
	Minimum thickness (mm)	0.3
	Armouring	
- /	Material	Galvanised Steel
	Type of armouring	Flat Strip
	Nominal size of armour (mm)	4.0 x 0.8
- /	Tolerance	+/-10%
9	Outer Sheath	
	Material	Extruded FR-LSH PVC Type ST2 as per IS:5831/84
í.	Thickness (mm)	1.40 (Min.)
,	Colour of outer sheath.	Black
	Electrical Parameters	0.45
	Max. a.c. resistance of conductor at 90° C (ohm/km)	9.45
	Calculated Cable reactance (ohm/km)	0.0983
,	Impedance of cable (ohm/km)	9.45
	Approx. Cable Capacitance (mfd/km)	0.19
11	Maximum conductor temperature under normal operating conditions	90°C
12	Maximum conductor temperature at the termination of short circuit	250°C
13	Short Circuit rating of conductor for the duration of 1 sec (kA)	0.36
14	Continuous Current carrying capacities :-	
(a)	In Ground at 30°C (A)	20
(b)	In Air at 40°C (A)	18
15	Applicable Standard	IS 8130/2013,IS 7098 Part I/88, IS 5831/84, IS 3975/1999 etc. with latest up to date amendments
16	Approx. overall diameter of the cable in mm	18.5 ± 2
	Minimum bending radius	12 times Overall diameter
	Max. Tensile strength	
	for Cables pulled with stocking (Newtons)	9 x D², D is the cable OD in mm
	for Cables pulled with pulling eyes (N)	1,500
19	Embossing	POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE FR-LSH
20	Printing	YEAR POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE FR-LSH CABLE 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
	FR-LSH PROPERTIES	
a)	Oxygen Index	Min. 29% as per ASTM D- 2863
	Temperature Index	Min. 250 Deg.C as per ASTM D- 2863
b)	Temperature Index Smoke Density Rating	
b) c)		Min. 250 Deg.c as per ASTM D- 2863 Max. 60% as per ASTM D- 2843 Max. 20% as per IEC- 754- 1