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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
Ш	CABLE CODE	LVIS09CXSFYL027C2.5SA001S
S.No	Particulars	27 Core X 2.5 Sq.mm
1	Name of Manufacturer	Polycab India Ltd.
2	Type of cable	2XFY
3	Voltage Grade V	1100
4	No of cores X size in sqmm	27 Core X 2.5 Sq.mm
5	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
7	Inner Sheath	Wanning of Tongo
- '	Material	Wrapping of Tapes
	Minimum thickness (mm) Armouring	0.3
-	Material	Galvanised Steel
	Type of armouring	Flat Strip
	Nominal size of armour (mm)	4.0 x 0.8
d)	Tolerance	+/-10%
	Outer Sheath	.,,,
	Material	Extruded FR-LSH PVC Type ST2 as per IS:5831/84
	Thickness (mm)	1.40 (Min.)
c)	Colour of outer sheath.	Black
10	Electrical Parameters	
a)	Max. a.c. resistance of conductor at 90° C (ohm/km)	9.45
b)	Calculated Cable reactance (ohm/km)	0.0983
c)	Impedance of cable (ohm/km)	9.45
	Approx. Cable Capacitance (mfd/km)	0.19
11	Maximum conductor temperature under normal operating	90°C
	conditions	
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 :-	
	In Ground at 30°C (A)	14
(b)	In Air at 40°C (A)	13
15	Applicable Standard	IS 8130/2013,IS 7098 Part I/88, IS 5831/84, IS 3975/1999 etc. with latest up
13	Applicable Stalidald	to date amendments
	Approx. overall diameter of the cable in mm	25.0 ± 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
(ii)	for Cables pulled with pulling eyes (N)	3,375
19	Embossing	POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE FR-LSH
		YEAR POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE FR-LSH CABLE SIZE
20	Printing	CABLE TYPE WITH SEQUENTIAL MARKING at every one meter interval.
21	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
	Acid Gas Generation	Max. 20% as per IEC- 754- 1
e)	Flammability Test	As per IEC:332-I