

Data sheet for LT XLPE Cable

S.No	Particulars	3.5 X 50
1	Name of Manufacturer	Polycab Wires Pvt. Ltd, Daman
2	Item Code	PISLV3.5X5017721
3	Type of cable	A2XFY
4	Voltage Grade V	1100
5	No of cores X size in sqmm	3.5 X 50
6	Conductor	
a)	Material	H2/H4 Grade Aluminium as per Class 2 of IS: 8130/84,latest
b)	Max. d.c. resistance of conductor at 20° C (ohm/km)	
	Main	0.641
	Neutral	1.20
c)	Shape of the conductor	Stranded Compacted Sector
7	Insulation	
a)	Material	XLPE as per IS 7098(Pt-1)/88, Latest
b)	Nominal thickness (mm)	
	Main	1.0
	Neutral	0.9
8	Inner Sheath	
a)	Material	Wrapping of PVC Tapes
b)	Minimum thickness (mm)	0.3
9	Armouring	
a)	Material	Galvanised Steel
b)	Type of armouring	Flat Strip
c)	Nominal size of armour (mm)	4.0 x 0.8
10	Outer Sheath	
a)	Material	FRLS PVC Type 'ST2' as per IS:5831/84
b)	Thickness (mm)	1.40 (Min.)
11	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
12	Maximum conductor temperature under normal operating conditions	90°C
13	Maximum conductor temperature at the termination of short circuit	250°C
14	Short Circuit rating of conductor for the duration of 1 sec (kA)	4.72



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15	Continuous Current carrying capacities :-	
(a)	In Ground at 30°C (A)	134
(b)	In Air at 40°C (A)	138
16	Applicable Standard	IS 8130/84, IS 7098 Part I/88, IS 5831/84, IS 3975/88 etc. with latest up to date amendments
17	Approx. overall diameter of the cable in mm	27.0 ± 2.0
18	Minimum bending radius	12 times Overall diameter
19	Max. Tensile strength	
(i)	for Cables pulled with stocking (Newtons)	9 x D ² , D is the cable OD in mm
(ii)	for Cables pulled with pulling eyes (N)	5,250
20	Colour of outer sheath.	Black

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



India's No.1 Cable & Wires Company



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