

**Data sheet for LT XLPE Cable**

S.No	Particulars	3.5 X 300
1	Name of Manufacturer	Polycab Wires Pvt. Ltd, Daman
2	Item Code	PISLV3.5X30010619
3	Type of cable	2XWY
4	Voltage Grade V	1100
5	No of cores X size in sqmm	3.5 X 300
6	<b>Conductor</b>	
a)	Material	Plain annealed Copper as per Class 2 of IS:8130/84
b)	Max. d.c. resistance of conductor at 20° C (ohm/km)	0.0601
	Main	
	Neutral	0.124
c)	Shape of the conductor	Stranded Compacted Sector
7	<b>Insulation</b>	
a)	Material	XLPE as per IS 7098(Pt-1)/88, Latest
b)	Nominal thickness (mm)	1.8
	Main	
	Neutral	1.4
8	<b>Inner Sheath</b>	
a)	Material	Extruded PVC Type ST2 as per IS:5831/84
b)	Minimum thickness (mm)	0.6
9	<b>Armouring</b>	
a)	Material	Galvanised Steel
b)	Type of armouring	Round Wire
c)	Nominal size of armour (mm)	2.5
10	<b>Outer Sheath</b>	
a)	Material	PVC Type 'ST2' as per IS:5831/84
b)	Thickness (mm)	2.36 (Min.)
11	<b>Electrical Parameters</b>	
a)	Max. a.c. resistance of conductor at 90° C (ohm/km)	0.0800
b)	Calculated Cable reactance (ohm/km)	0.0703
c)	Impedance of cable (ohm/km)	0.106
d)	Approx. Cable Capacitance (mfd/km)	0.71
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)	42.93



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15	<b>Continuous Current carrying capacities :-</b>	
(a)	In Ground at 30°C (A)	469
(b)	In Air at 40°C (A)	574
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	62.5 ± 3.0
18	Minimum bending radius	12 times Overall diameter
19	Max. Tensile strength	
(i)	for Cables pulled with stocking (Newtons)	9 x D <sup>2</sup> , D is the cable OD in mm
(ii)	for Cables pulled with pulling eyes (N)	52,500
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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