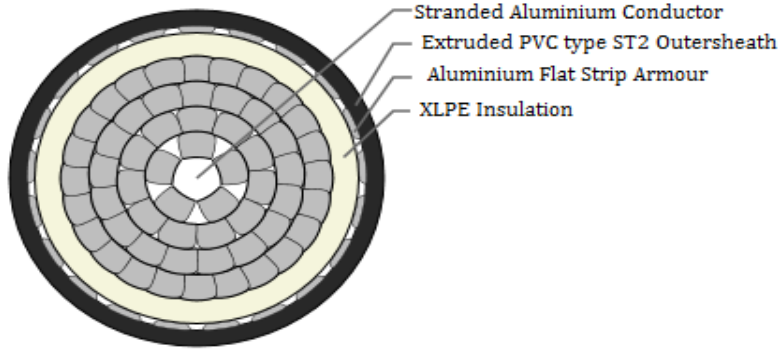


**Manufacturing Data Sheet:**
**Low Voltage XLPE Cable**
**Design Code : LVIS09AXAFY2001C500SA002S**
**Date :**
**Rev No. :**


S.No	Particulars	1 X 500 MM²
1	Name of Manufacturer	Polycab Wires Pvt. Ltd
2	Type of cable	A2XFaY
3	Voltage Grade V	1100
4	No of cores X size in sqmm	1 X 500
5	<b>Conductor</b>	
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)	0.0605
c)	Shape of the conductor	Stranded Circular
6	<b>Insulation</b>	
a)	Material	XLPE as per IS 7098(Pt-1)/88, Latest
b)	Nominal thickness (mm)	2.6
c)	Core Identification	Natural
7	<b>Inner Sheath</b>	
a)	Material	NA
b)	Minimum thickness (mm)	NA
8	<b>Armouring</b>	
a)	Material	Aluminium
b)	Type of armouring	Flat Strip
c)	Nominal size of armour (mm) ± 10%	4.0 x 0.8
9	<b>Outer Sheath</b>	
a)	Material	Extruded PVC Type 'ST2' as per IS:5831/84
b)	Thickness (mm)	1.56 (Min.)
c)	Colour of outer sheath.	Black
10	<b>Electrical Parameters</b>	
a)	Max. a.c. resistance of conductor at 90° C (ohm/km)	0.0810
b)	Calculated Cable reactance (ohm/km)	0.0805
c)	Impedance of cable (ohm/km)	0.114
d)	Approx. Cable Capacitance (mfd/km)	0.77

S.No	Particulars	1 X 500 MM <sup>2</sup>
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)	47.24
14	<b>Continuous Current carrying capacities :-</b>	
(a)	In Ground at 30°C (A)	485
(b)	In Air at 40°C (A)	685
15	Applicable Standard	IS 8130/84, IS 7098 Part I/88, IS 5831/84, IS 3975/88 etc. with latest up to date amendments
16	Nominal overall diameter of the cable in mm	<b>37 ± 2.0</b>
17	Minimum bending radius	15 times Overall diameter
18	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)	15,000
19	Standard Drum Length with ± 5% tolerance (m)	500 ± 5%
20	Non-Standard Drum Length mtrs	Max. 5% Order Quantity
22	<b>Printing</b>	<b>YEAR POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE , CABLE SIZE, CABLE TYPE WITH SEQUENTIAL MARKING at every one meter interval.</b>
<b>Note:-The values given above are subject to tolerances as per the relevant standards.</b>		