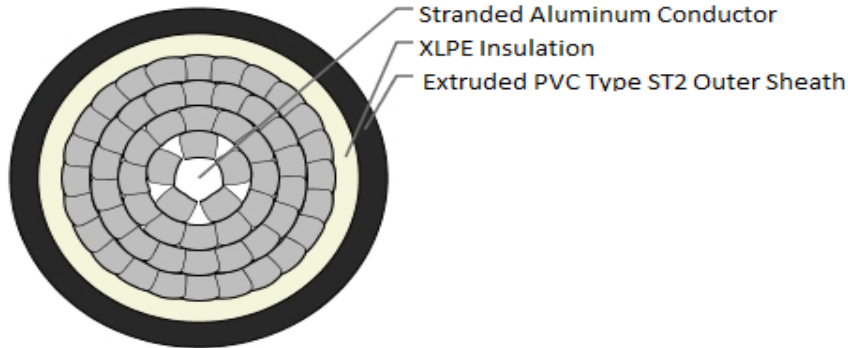


**Manufacturing Data Sheet:**
**Low Voltage XLPE Cable**
**Design Code : LVIS09AXUAY2001C400SA001S**
**Date :**
**Rev No. :**


S.No	Particulars	1 X 400
1	Name of Manufacturer	Polycab Wires Pvt. Ltd, India
2	Type of cable	A2XY
3	Voltage Grade V	1100
4	No of cores X size in sqmm	1 X 400
5	<b>Conductor</b>	
a)	Material	H2/H4 Grade Aluminium as per Class 2 of IS: 8130/2013,latest
b)	Max. d.c. resistance of conductor at 20° C (ohm/km)	0.0778
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)	2.0
c)	Core Identification	Natural
7	<b>Inner Sheath</b>	
a)	Material	NA
b)	Minimum thickness (mm)	NA
8	<b>Armouring</b>	
a)	Material	NA
b)	Type of armouring	NA
c)	Nominal size of armour (mm)	NA
7	<b>Outer Sheath</b>	
a)	Material	PVC Type 'ST2' as per IS:5831/84
b)	Thickness (mm)	2.2 (Nom.)
c)	Colour of outer sheath.	Black
8	<b>Electrical Parameters</b>	
a)	Max. a.c. resistance of conductor at 90° C (ohm/km)	0.102
b)	Calculated Cable reactance (ohm/km)	0.0798
c)	Impedance of cable (ohm/km)	0.130
9	Maximum conductor temperature under normal operating conditions	90°C

S.No	Particulars	1 X 400
10	Maximum conductor temperature at the termination of short circuit	250°C
11	Short Circuit rating of conductor for the duration of 1 sec (kA)	37.79
12	<b>Continuous Current carrying capacities :-</b>	
(a)	In Ground at 30°C (A)	429
(b)	In Air at 40°C (A)	589
13	Applicable Standard	IS 8130/2013, IS 7098 Part I/88, IS 5831/84, IS 3975/88 etc. with latest up to date amendments
14	Nominal overall diameter of the cable in mm	31.5 ± 2.0
15	Minimum bending radius	15 times Overall diameter
16	Max. Tensile strength	
(i)	for Cables pulled with stocking (Newtons)	5 x D <sup>2</sup> , D is the cable OD in mm
ii)	for Cables pulled with pulling eyes (N)	12,000
18	Standard Drum Length (Mtr.)	1000 Mtr. ±5%
19	Non Standard Drum Length (Mtr.)	Maximum 5% of 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>		