	POLYCAB Connection Zindagi Ka	Document ID: TE/QMS/F/02 Rev. No. : 00 Issued Date : 02/04/2018
		Cable Description: 1100V, Stranded Class 2 Aluminium Conductor, XLPE insulated, Unarmour, Extruded PVC Type ST2 Outer sheath as per IS 7098 Part 1/1988

I	Technical Data of LT XLPE Cables	CABLE SIZE
II	CABLE CODE	LVIS09AXUAY2001C300SA001S
S.No	Particulars	1 Core X 300 Sq.mm
1	Name of Manufacturer	Polycab India Ltd
2	Type of cable	A2XY
3	Voltage Grade V	
4	No of cores X size in sqmm	1 Core X 300 Sq.mm
5	**Conductor**	
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)	0.100
c)	Shape of the conductor	Stranded Compacted Circular
6	**Insulation**	
a)	Material	XLPE as per IS 7098(Pt-1)/88, Latest
b)	Nominal thickness (mm)	1.8
c)	Core identification	Natural
7	**Outer Sheath**	
a)	Material	Extruded PVC Type 'ST2' as per IS:5831
b)	Thickness (mm)	2.0 (Nom.)
c)	Colour of outer sheath.	Black
8	**Electrical Parameters**	
a)	Max. a.c. resistance of conductor at 90° C (ohm/km)	0.130
b)	Calculated Cable reactance (ohm/km)	0.0801
c)	Impedance of cable (ohm/km)	0.153
9	Maximum conductor temperature under normal operating conditions	90°C
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)	28.35
12	**Continuous Current carrying capacities :-**	
(a)	In Ground at 30°C (A)	376
(b)	In Air at 40°C (A)	500
13	Applicable Standard	IS 7098 Part I/88, IS 8130/2013, IS 5831/84 etc. with latest up to date amendments
14	Approx. overall diameter of the cable in mm	28.5 ± 2.0
15	Minimum bending radius	15 times Overall diameter
16	Max. Tensile strength	
(i)	for Cables pulled with stocking (Newtons)	5 x D^2, D is the cable OD in mm
ii)	for Cables pulled with pulling eyes (N)	9,000
17	Embossing	POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE
18	Printing	YEAR POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE, CABLE SIZE, CABLE TYPE WITH SEQUENTIAL MARKING at every one meter interval.
19	Standard Drum Length (Mtr.)	1000 ± 5%
20	Non- Standard Drum Length (Mtr.)	Maximum 5% of order quantity

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