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	Cable Description: 1100V, Solid Class 1 Aluminium Conductor, XLPE insulated, Extruded PVC Type ST2 inner sheath, Galvanised Round wire armour, 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	LVIS09AXSWY2004C004SA002S
S.No	Particulars	4 Core X 4 Sq.mm
1	Name of Manufacturer	Polycab India Ltd
2	Type of cable	A2XWY
3	Voltage Grade V	1100
4	No of cores X size in sqmm	4 Core X 4 Sq.mm
5	Conductor	
a)	Material	H2/H4 Grade Aluminium as per Class 1 of IS: 8130/2013, latest
b)	Max. d.c. resistance of conductor at 20° C (ohm/km)	7.41
c)	Shape of the conductor	Solid Circular
6	Insulation	
a)	Material	XLPE as per IS 7098(Pt-1)/88, Latest
b)	Nominal thickness (mm)	0.7
c)	Core identification	Red, Yellow, Blue, Black
7	Inner Sheath	
a)	Material	Extruded PVC Type ST2 as per IS:5831 / 84
b)	Minimum thickness (mm)	0.3
8	Armouring	
a)	Material	Galvanised Steel
b)	Type of armouring	Round Wire
c)	Nominal size of armour (mm)	1.40
d)	Tolerance on armour dimensions	± 0.040 mm
9	Outer Sheath	
a)	Material	Extruded PVC Type 'ST2' as per IS:5831/ 84
b)	Thickness (mm)	1.24 (Min.)
c)	Colour of sheath	Black
10	Electrical Parameters	
a)	Max. a.c. resistance of conductor at 90° C (ohm/km)	9.50
b)	Calculated Cable reactance (ohm/km)	0.0917
c)	Impedance of cable (ohm/km)	9.50
d)	Approx. Cable Capacitance (mfd/km)	0.23
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)	0.38
14	Continuous Current carrying capacities :-	
(a)	In Ground at 30°C (A)	35
(b)	In Air at 40°C (A)	32
15	Applicable Standard	IS 7098 Part I/88, IS 8130/2013, IS 5831/84, IS 3975/1999 etc. with latest up to date amendments
16	Approx. overall diameter of the cable in mm	15.5 ± 2.0
17	Minimum bending radius	12 times Overall diameter
18	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)	480
19	Embossing	POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE
20	Printing	YEAR POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE CABLE SIZE CABLE TYPE WITH SEQUENTIAL MARKING at every one meter interval.
21	Standard Drum Length (Mtr.)	1000 Mtr. ±5%
22	Non- Standard Drum Length (Mtr.)	Maximum 5% of order quantity

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