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	Rev. No. : 00 Issued Date : 02/04/2018 Cable Description: 1100V, Solid Class 1 Copper Conductor, XLPE insulated, Wrapping of Tape inner sheath, Galvanised Flat strip armour, Extruded PVC Type ST2 Outer sheath as per IS 7098 Part 1/1988

I	Technical Data Sheet of LT XLPE Cable	CABLE SIZE
II	CABLE CODE	LVIS09CXSFY2037C1.5SA004S
<b>S.No</b>	<b>Particulars</b>	<b>37 Core X 1.5 Sq.mm</b>
1	Name of Manufacturer	Polycab India Ltd.
2	Type of cable	2XFY
3	Voltage Grade V	1100
4	No of cores X size in sqmm	37 Core X 1.5 Sq.mm
5	<b>Conductor</b>	
a)	Material	Plain annealed Copper as per Class 1 of IS:8130/2013
b)	Max. d.c. resistance of conductor at 20° C (ohm/km)	12.1
c)	Shape of the conductor	Solid Circular
6	<b>Insulation</b>	
a)	Material	XLPE as per IS 7098(Pt-1)/88, Latest
b)	Nominal thickness (mm)	0.7
c)	Core Identification	All cores Grey with number printing
7	<b>Inner Sheath</b>	
a)	Material	Wrapping of Tapes
b)	Minimum thickness (mm)	0.3
8	<b>Armouring</b>	
a)	Material	Galvanised Steel
b)	Type of armouring	Flat Strip
c)	Nominal size of armour (mm)	4.0 x 0.8
d)	Tolerance	+/-10%
9	<b>Outer Sheath</b>	
a)	Material	Extruded PVC Type ST2 as per IS:5831/84
b)	Thickness (mm)	1.40 (Min.)
c)	Colour of outer sheath.	Black
10	<b>Electrical Parameters</b>	
a)	Max. a.c. resistance of conductor at 90° C (ohm/km)	15.4
b)	Calculated Cable reactance (ohm/km)	0.106
c)	Impedance of cable (ohm/km)	15.4
d)	Approx. Cable Capacitance (mfd/km)	0.16
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)	0.21
14	<b>Continuous Current carrying capacities :-</b>	
(a)	In Ground at 30°C (A)	11
(b)	In Air at 40°C (A)	9
15	Applicable Standard	IS 8130/2013,IS 7098 Part I/88, IS 5831/84, IS 3975/1999 etc. with latest up to date amendments
16	Approx. overall diameter of the cable in mm	25.0 +/- 2.0
17	Minimum bending radius	12 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)	2,775
19	<b>Embossing</b>	POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE
20	<b>Printing</b>	YEAR POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE CABLE SIZE CABLE TYPE WITH SEQUENTIAL MARKING at every one meter interval.
21	Standard Drum Length (Mtr.)	500 ± 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.