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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	LVIS09CXSFY2027C2.5SA001S
S.No	Particulars	27 Core X 2.5 Sq.mm
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	27 Core X 2.5 Sq.mm
5	Conductor	
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)	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	All cores Grey with number printing
7	Inner Sheath	
a)	Material	Wrapping of Tapes
b)	Minimum thickness (mm)	0.3
8	Armouring	
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	Outer Sheath	
a)	Material	Extruded PVC Type ST2 as per IS:5831/84
b)	Thickness (mm)	1.40 (Min.)
c)	Colour of outer sheath.	Black
10	Electrical Parameters	
a)	Max. a.c. resistance of conductor at 90° C (ohm/km)	9.45
b)	Calculated Cable reactance (ohm/km)	0.0983
c)	Impedance of cable (ohm/km)	9.45
d)	Approx. Cable Capacitance (mfd/km)	0.19
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)	0.36
14	Continuous Current carrying capacities :-	
(a)	In Ground at 30°C (A)	14
(b)	In Air at 40°C (A)	13
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
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)	3,375
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.)	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.