Polycab Wires Private Limited

POLYCA8

	Manufacturing Data Sheet:	Low Voltage XLPE Cable		
	Design Code : LVIS09CXSFYL012C2.5SA001S			
	Date :	Rev No. :		
Extruded FR-LSH PVC Type ST2 Outer Sheath Galvanised Steel Flat Strip Layup Wrapped PVC tape Stranded Copper Conductor XLPE Insulation				
S.No	Particulars	12 X 2.5		
1	Name of Manufacturer	Polycab Wires Pvt. Ltd, India		
2		2XFY		
3	Type of cable			
3 4	Voltage Grade V	1100 12 X 2.5		
4 5	No of cores X size in sqmm Conductor	12 A 2.5		
Э	Conductor			
a)	Material	Plain annealed Copper as per Class 2 of IS:8130/2013		
b)	Max. d.c. resistance of conductor at 20° C (ohm/km)	7.41		
c)	Shape of the conductor	Stranded 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	Wrapped PVC tape		
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		
9	Outer Sheath			
i)	Material	Extruded FR-LSH PVC Type ST2 as per IS:5831/84		
ii)	Thickness (mm)	1.40 (Min.)		
iii)	Colour of outer sheath.	Black		
)	FR-LSH PROPERTIES			
,		Min. 29% as per ASTM D- 2863		
a) b)	Oxygen Index	Min. 29% as per ASTM D- 2863 Min. 250 Deg.C as per ASTM D- 2863		
a)		Min. 29% as per ASTM D- 2863 Min. 250 Deg.C as per ASTM D- 2863 Max. 60% as per ASTM D- 2843		

Polycab Wires Private Limited

eolycae

a) [b) (c) 1 d 4	Electrical Parameters Max. a.c. resistance of conductor at 90° C (ohm/km) Calculated Cable reactance (ohm/km) Impedance of cable (ohm/km) Approx. Cable Capacitance (mfd/km) Maximum conductor temperature under normal operating conditions	9.45 0.0990 9.45 0.21
a) (b) (c) 1 d 4	(ohm/km) Calculated Cable reactance (ohm/km) Impedance of cable (ohm/km) Approx. Cable Capacitance (mfd/km) Maximum conductor temperature under	0.0990 9.45 0.21
c) I d /	Impedance of cable (ohm/km) Approx. Cable Capacitance (mfd/km) Maximum conductor temperature under	9.45 0.21
d /	Approx. Cable Capacitance (mfd/km) Maximum conductor temperature under	0.21
11	Maximum conductor temperature under	
	-	
		90°C
	Maximum conductor temperature at the termination of short circuit	250°C
	Short Circuit rating of conductor for the duration of 1 sec (kA)	0.36
14	Continuous Current carrying capacities :-	
(a) I	In Ground at 30°C (A)	20
(b) I	In Air at 40°C (A)	18
15 /	Applicable Standard	IS 8130/2013,IS 7098 Part I/88, IS 5831/84, IS 3975/88 etc. with latest up to date amendments
16 I	Nominal overall diameter of the cable in mm	20.0 ± 2.0
17 I	Minimum bending radius	12 times Overall diameter
18 I	Max. Tensile strength	
(i) f	for Cables pulled with stocking (Newtons)	$9 \ge D^2$, D is the cable OD in mm
ii) f	for Cables pulled with pulling eyes (N)	1,500
19	Standard Drum Length (Mtr.)	1000 Mtr. ±5%
20 I	Non Standard Drum Length (Mtr.)	Maximum 5% of order quantity
21	Embossing	POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE FR LSH
22	Printing	YEAR POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE FR-LSH, CABLE SIZE, CABLE TYPE WITH SEQUENTIAL MARKING at every one meter interval.
Note:-	The values given above are subject to toler	
	5	•