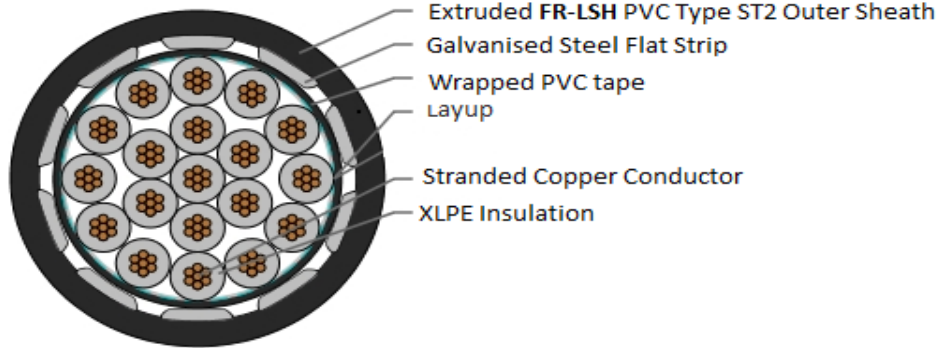


Manufacturing Data Sheet:
Low Voltage XLPE Cable
Design Code : LVIS09CXSFYL019C1.5SA002S
Date :
Rev No. :


S.No	Particulars	19 X 1.5 MM ²
1	Name of Manufacturer	Polycab Wires Pvt. Ltd, India
2	Type of cable	2XFY
3	Voltage Grade V	1100
4	No of cores X size in sqmm	19 X 1.5
5	Conductor	
a)	Material	Plain annealed Copper as per Class 2 of IS:8130/84
b)	Max. d.c. resistance of conductor at 20° C (ohm/km)	12.10
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 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	
a)	Material	Extruded FR-LSH PVC Type ST2 as per IS:5831/84
b)	Thickness (mm)	1.40 (Min.)
c)	Colour of outer sheath.	Black
	FR-LSH PROPERTIES	
a)	Oxygen Index	Min. 29% as per ASTM D- 2863
b)	Temperature Index	Min. 250 Deg.C as per ASTM D- 2863
c)	Smoke Density Rating	Max. 60% as per ASTM D- 2843
d)	Acid Gas Generation	Max. 20% as per IEC- 754- 1

S.No	Particulars	19 X 1.5 MM²
10	Electrical Parameters	
a)	Max. a.c. resistance of conductor at 90° C (ohm/km)	15.4
b)	Calculated Cable reactance (ohm/km)	0.105
c)	Impedance of cable (ohm/km)	15.4
d)	Approx. Cable Capacitance (mfd/km)	0.18
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	Continuous Current carrying capacities :-	
(a)	In Ground at 30°C (A)	14
(b)	In Air at 40°C (A)	12
15	Applicable Standard	IS 8130/84, IS 7098 Part I/88, IS 5831/84, IS 3975/88 etc. with latest up to date amendments
16	Nominal overall diameter of the cable in mm	20.5 ± 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)	1,425
19	Standard Drum Length with ± 5% tolerance (m)	1000 ± 5%
20	Non-Standard Drum Length mtrs	Max. 5% 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 tolerances as per the relevant standards.		