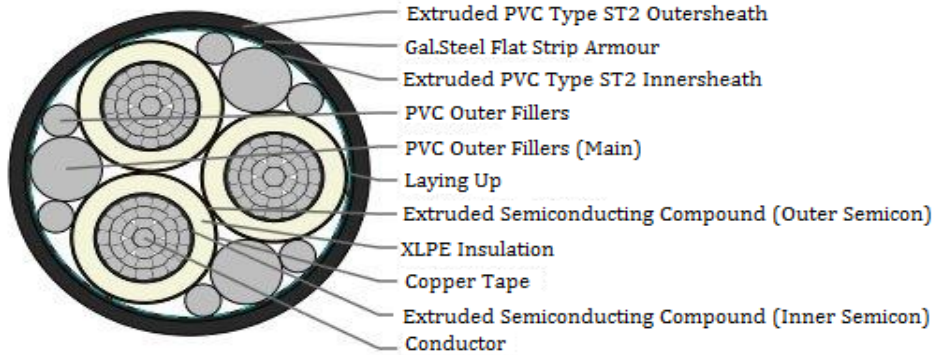


Manufacturing Data Sheet:
High Voltage XLPE Cable
Design Code : MVIS16AXSFYL003C185SA001S
Date :
Rev No. :


S.No	Particulars	3 X 185 MM ²
1	Name of Manufacturer	Polycab Wires Pvt. Ltd
2	Type of Cable	A2XFY
3	Voltage Grade kV	33/33
4	No of cores X size in sqmm	3 X 185
5 a)	Maximum conductor temperature under normal operating conditions	90°C
b)	Maximum conductor temperature at the termination of short circuit	250°C
6 a)	Permissible Voltage Variation	± 10%
b)	Permissible Frequency Variation	± 5%
c)	Combined Voltage & Frequency variation	± 10%
7	Conductor	
a)	Material	H4 Grade Aluminium as per Class 2 of IS: 8130/84,latest
b)	Maximum d.c. resistance of conductor at 20° C (ohm/km)	0.164
c)	Shape	Stranded Compact Circular
8	Conductor Screening	
a)	Material	Extruded Semi-conducting Compound
b)	Nominal thickness (mm)	0.3
9	Insulation	
a)	Material	XLPE as per IS 7098(Pt-2)
b)	Nominal thickness (mm)	9.5
c)	Core Identification	By coloured strips (Red, Yellow & Blue)
10	Insulation Screening	
(i)	Non - Metallic	
a)	Material	Extruded Semi-conducting Compound
b)	Nominal thickness (mm)	0.3
(ii)	Metallic	
a)	Material	Single layer of copper tape
11	Inner Sheath	

S.No	Particulars	3 X 185 MM ²
a)	Material	Extruded PVC Type ST2 to IS:5831/84
b)	Minimum thickness (mm)	0.7
12	Armouring	
a)	Material	Gal.Steel
b)	Type of armouring	Flat Strip
c)	Nominal size of armour (mm) ± 10%	4.0 x 0.8
13	Outer Sheath	
a)	Material	Extruded FR-LSH PVC Type ST2 to IS:5831/84
b)	Thickness (mm)	3.00 (Min.)
c)	Outer Sheath Colour	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
14	Electrical Parameters	
a)	Max. a.c. resistance of conductor at 90° C (ohm/km)	0.211
b)	Approx. Cable Capacitance (mfd/km)	0.17
c)	Approx. Cable reactance (ohm/km)	0.116
d)	Impedance of cable (ohm/km)	0.241
e)	Test voltage for 5 minutes (kV)	82.5 kV(rms) for 5 Minute
15	Continuous Current carrying capacities :-	
(a)	In Ground at 30°C (A)	270
(b)	In Air at 40°C (A)	336
16	Short Circuit rating of conductor for the duration of 1 sec (kA)	17.48
17	Standard to which the cables confirm	IS 8130/84, Generally as per IS 7098 Part 2 , IS 5831/84, IS 3975/88 etc. with latest up to date amendments
18	Nominal Overall diameter (mm)	89 ± 3 mm
19	Standard Drum Length with ± 5% tolerance (m)	500 ± 5%
20	Non-Standard Drum Length mtrs	Max. 5% Order Quantity
22	Printing	YEAR POLYCAB ELECTRIC 33/33 KV (UE) 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.