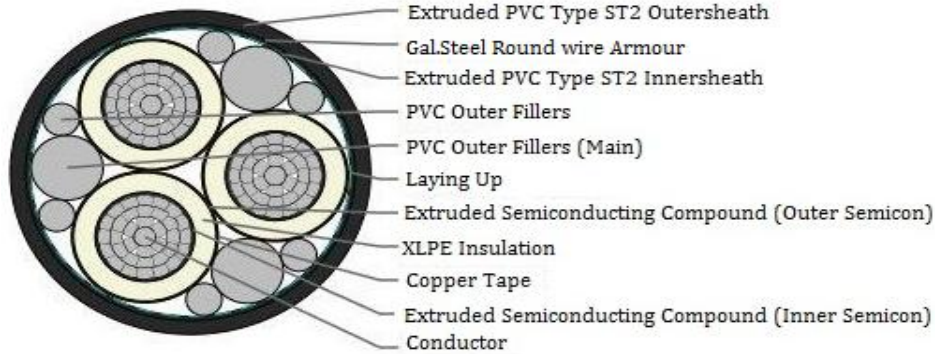


Manufacturing Data Sheet:
High Voltage XLPE Cable
Design Code : MVIS12AXSWY2003C185SA001S
Date :
Rev No. :


S.No	Particulars	3 X 185 MM ²
1	Name of Manufacturer	Polycab Wires Pvt. Ltd
2	Type of Cable	A2XWY
3	Voltage Grade kV	12.7/22
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)/2011, latest
b)	Nominal thickness (mm)	6.0
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 MM²
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	Round Wire
c)	Nominal size of armour (mm) \pm 0.080	3.15
13	Outer Sheath	
a)	Material	Extruded PVC Type ST2 to IS:5831/84
b)	Thickness (mm)	2.84 (Min.)
c)	Outer Sheath Colour	Black
14	Electrical Parameters	
a)	Max. a.c. resistance of conductor at 90° C (ohm/km)	0.211
b)	Approx. Cable Capacitance (mfd/km)	0.24
c)	Approx. Cable reactance (ohm/km)	0.102
d)	Impedance of cable (ohm/km)	0.234
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,IS 7098 Part 2/2011, IS 5831/84, IS 3975/88 etc. with latest up to date amendments
18	Nominal Overall diameter (mm)	77.0 \pm 3.0
19	Standard Drum Length with \pm 5% tolerance (m)	500 \pm 5%
20	Non-Standard Drum Length mtrs	Max. 5% Order Quantity
22	Printing	YEAR POLYCAB ELECTRIC 12.7/22 KV (E) GRADE XLPE, 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.