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33 kV (E) , Stranded Compacted Circular Aluminium Conductor, Conductor screen with extruded semi Conducting Compound, XLPE Insulated, Insulation screening with extruded Semi Conducting Compound with Copper Tape, Cores Laid up, Extruded PVC Type ST2 inner sheath, GS Flat strip armoured and overall PVC Type ST2 Sheathed Cable confirming to IS 7098/ (PART-II)/ 2011 with latest amendments.

I	Technical Data of HT XLPE Cables	CABLE SIZE
II	CABLE CODE	MVIS13AXSFY2003C300SA001S
S.No	Particulars	3 Core X 300 Sq.mm
1	Name of Manufacturer	POLYCAB INDIA LTD
2	Type of Cable	A2XFY
3	Voltage Grade kV	19/33 (E)
4	No of cores X size in sqmm	3 Core X 300 Sq.mm
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	<b>Conductor</b>	
a)	Material	H4 Grade Aluminium as per Class 2 of IS: 8130, latest
b)	Maximum d.c. resistance of conductor at 20° C (ohm/km)	0.100
c)	Shape	Stranded Compacted Circular
8	<b>Conductor Screening</b>	
a)	Material	Extruded Semi-conducting Compound
b)	Nominal thickness (mm)	0.3
9	<b>Insulation</b>	
a)	Material	XLPE as per IS 7098(Pt-2)/2011
b)	Nominal thickness (mm)	8.8
c)	Core identification	By Coloured strips(Red,Yellow,Blue)
10	<b>Insulation Screening</b>	
(i)	<b>Non - Metallic</b>	
a)	Material	Extruded Semi-conducting Compound
b)	Nominal thickness (mm)	0.3
(ii)	<b>Metallic</b>	
a)	Material	Single Layer of Copper Tape
b)	Approximate thickness (mm)	0.03
c)	Earth fault Current withstand capacity of Cu Tape for 1 sec (KA)	0.46 kA for 1 Sec, All 3 Cores Combined
11	<b>Inner Sheath</b>	
a)	Material	Extruded PVC Type ST2 to IS:5831, latest
b)	Minimum thickness (mm)	0.7
12	<b>Armouring</b>	
a)	Material	Galvanised Steel
b)	Type of armouring	Flat Strip
c)	Nominal size of armour (mm)	4.0 x 0.8
d)	Tolerance on armour dimensions	± 10%
13	<b>Outer Sheath</b>	
(i)	Material	Extruded PVC Type 'ST2' as per IS:5831, latest
(ii)	Thickness (mm)	3.00 (Min.)
(iii)	Colour of sheath	Black
14	<b>Electrical Parameters</b>	
a)	Max. a.c. resistance of conductor at 90° C (ohm/km)	0.130
b)	Approx. Cable Capacitance (mfd/km)	0.22
c)	Approx. Cable reactance (ohm/km)	0.104
d)	Impedance of cable (ohm/km)	0.166
15	<b>Continuous Current carrying capacities :-</b>	
(a)	In Ground at 30°C (A)	351
(b)	In Air at 40°C (A)	448
16	Short Circuit rating of conductor for the duration of 1 sec (kA)	28.35
17	Standard to which the cables confirm	IS 7098 Part 2/2011, IS 8130/2013, IS 5831/1984, IS 3975/1999 etc. with latest up to date amendments
18	Approx. Overall diameter (mm)	94.0 ± 3.0
19	Embossing	YEAR POLYCAB ELECTRIC 19/33 KV (E) GRADE XLPE
20	Printing	YEAR POLYCAB ELECTRIC 19/33 KV (E) GRADE XLPE CABLE SIZE CABLE TYPE WITH SEQUENTIAL MARKING at every one meter interval.
21	Minimum Bending radius(mm)	15 times Overall diameter
22	Standard Drum Length (mtr)	500 +/- 5%
23	Non-Standard Drum Length (Mtr.)	Maximum 5% of order quantity

Note:-The values given above are subject to tolerances as per the relevant standards.