

Document ID: TE/QMS/F/02

Rev. No.: 00 Issued Date: 02/04/2018

11 kV (UE), 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.

	Technical Data of HT XLPE Cables	CABLE SIZE
- II	CABLE CODE	MVIS11AXSFY2003C240SA001S
S.No	Particulars	3 Core X 240 Sq.mm
1	Name of Manufacturer	POLYCAB INDIA LTD
2	Type of Cable	A2XFY
3	Voltage Grade kV	11/11 (UE)
4	No of cores X size in sqmm	3 Core X 240 Sq.mm
5 a)	Maximum conductor temperature under normal operating conditions	90°℃
b)	Maximum conductor temperature at the termination of short circuit	250°C
	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, latest
b)	Maximum d.c. resistance of conductor at 20° C (ohm/km)	0.125
c)	Shape	Stranded Compacted Circular
8	Conductor Screening	
a)	Material	Extruded Semi-conducting Compound
b) 9	Nominal thickness (mm) Insulation	0.3
a)	Material	XLPE as per IS 7098(Pt-2)/2011
(a) (b)	Nominal thickness (mm)	5.5
c)	Core identification	By Coloured strips( Red,Yellow,Blue)
	Insulation Screening	by Coloured Strips( Nea, Tellow, blue)
(i)	Non - Metallic	
a)	Material	Extruded Semi-conducting Compound
	Nominal thickness (mm)	0.3
	Metallic	***
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	Inner Sheath	
a)	Material	Extruded PVC Type ST2 to IS:5831, latest
	Minimum thickness (mm)	0.7
	Armouring	
a)	Material	Galvanised Steel
	Type of armouring	Flat Strip
c)	Nominal size of armour (mm)	4.0 x 0.8
d) 13	Tolerance on armour dimensions  Outer Sheath	± 10%
	Material Material	Extruded DVC Type (CT2) as per IC:E021 latest
	Thickness (mm)	Extruded PVC Type 'ST2' as per IS:5831, latest 2.84 (Min.)
(iii)	Colour of sheath	2.84 (Min.) Black
14	Electrical Parameters	DidCK
	Max. a.c. resistance of conductor at 90° C (ohm/km)	0.162
	Approx. Cable Capacitance (mfd/km)	0.29
c)	Approx. Cable reactance (ohm/km)	0.0961
	Impedance of cable (ohm/km)	0.188
	Continuous Current carrying capacities :-	
(a)	In Ground at 30°C (A)	315
	In Air at 40°C (A)	387
16	Short Circuit rating of conductor for the duration of 1 sec (kA)	22.68
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)	75.0 ± 3.0
19	Embossing	YEAR POLYCAB ELECTRIC 11/11 KV (UE) GRADE XLPE
		YEAR POLYCAB ELECTRIC 11/11 KV (UE) GRADE XLPE CABLE SIZE CABLE TYPE
20	Printing	, , ,
		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