





Stranded Aluminium Conductor Extruded Semi-Conducting Compound XLPE Insulation Extruded Semi-Conducting Compound

Metallic Screen

Extruded Inner Sheath

Filler Material

Gal. Steel Flat Strip Armour

Extruded PVC type ST2 Outer Sheath



HT XLPE CABLE

DESIGN CODE: MVIS12AXSFY2003C240SA001S Document ID: TE/QMS/F/02

Particu	ulars	3 Core X 240 Sq.mm		
Name o	f Manufacturer	POLYCAB INDIA LTD		
Type of	Cable	A2XFY		
Voltage	Grade kV	12.7/22 (E)		
No of co	ores X size in sqmm	3 Core X 240 Sq.mm		
	ım conductor temperature under normal ng conditions	90°C		
Maximu short cir	ım conductor temperature at the termination of cuit	250°C		
Permiss	ible Voltage Variation	± 10%		
Permiss	ible Frequency Variation	± 5%		
Combin	ed Voltage & Frequency variation	± 10%		
Conductor				
a)	Material	H4 Grade Aluminium as per Class 2 of IS: 8130, latest		
h)	Maximum d.c. resistance of conductor at 20° C (ohm/km)	0.125		
c)	Shape	Stranded Compacted Circular		
Condu	actor Screening			
a)	Material	Extruded Semi-conducting Compound		
b)	Nominal thickness (mm)	0.3		
Insulat	Insulation			
a)	Material	XLPE as per IS 7098(Pt-2)/2011		
	Nominal thickness (mm)	6		
c)	Core identification	By Coloured strips(Red,Yellow,Blue)		
Insulation Screening				
(i)	Non - Metallic			
•	Material	Extruded Semi-conducting Compound		
	Nominal thickness (mm)	0.3		
	Metallic			
·	Material	Single Layer of Copper Tape		
	Approximate thickness (mm)	0.03		
(-)	Earth fault Current withstand capacity of Cu Tape for 1 sec (KA)	0.46 kA for 1 Sec, All 3 Cores Combined		
Inner	Sheath			
a)	Material	Extruded PVC Type ST2 to IS:5831, latest		





	b) Minimum thickness (mm)	0.7		
Aı	Armouring			
	a) Material	Galvanised Steel		
	b) Type of armouring	Flat Strip		
	c) Nominal size of armour (mm)	4.0×0.8		
	d) Tolerance on armour dimensions	± 10%		
0	uter Sheath			
	(i) Material	Extruded PVC Type 'ST2' as per IS:5831, latest		
	(ii) Thickness (mm)	2.84 (Min.)		
	(iii) Colour of sheath	Black		
El	Electrical Parameters			
	a) Max. a.c. resistance of conductor at 90° C (ohm/km)	0.161		
	b) Approx. Cable Capacitance (mfd/km)	0.27		
	c) Approx. Cable reactance (ohm/km)	0.0983		
	d) Impedance of cable (ohm/km)	0.189		
Co	Continuous Current carrying capacities :-			
	(a) In Ground at 30°C (A)	312		
((b) In Air at 40°C (A)	393		
Sh (k <i>i</i>	ort Circuit rating of conductor for the duration of 1 sec A)	22.68		
Sta	andard 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		
Ap	pprox. Overall diameter (mm)	77.0 ± 3.0		
En	nbossing	YEAR POLYCAB ELECTRIC 12.7/22 KV (E) GRADE XLPE		
Pri	inting	YEAR POLYCAB ELECTRIC 12.7/22 KV (E) GRADE XLPE CABLE SIZE CABLE TYPE WITH SEQUENTIAL MARKING at every one meter interval.		
Mi	inimum Bending radius(mm)	15 times Overall diameter		
Sta	andard Drum Length (mtr)	500 +/- 5%		
No	on-Standard Drum Length (Mtr.)	Maximum 5% of order quantity		

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