





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: MVIS17AXSFY2003C300SA001S Document ID: TE/QMS/F/02

Partic	culars	3 Core X 300 Sq.mm		
Name	of Manufacturer	POLYCAB INDIA LTD		
Type o	f Cable	A2XFY		
Voltage	e Grade kV	6.35/11 (E)		
No of o	cores X size in sqmm	3 Core X 300 Sq.mm		
	um conductor temperature under normal ing conditions	90°C		
Maxim short c	um conductor temperature at the termination of ircuit	250°C		
Permis	sible Voltage Variation	± 10%		
Permis	sible Frequency Variation	± 5%		
Combi	ned Voltage & Frequency variation	± 10%		
Cond	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)	0.100		
c)	Shape	Stranded Compacted Circular		
Cond	uctor Screening			
a)	Material	Extruded Semi-conducting Compound		
b)	Nominal thickness (mm)	0.3		
Insula	Insulation			
a)	Material	XLPE as per IS 7098(Pt-2)/2011		
b)	Nominal thickness (mm)	3.6		
c)	Core identification	By Coloured strips(Red,Yellow,Blue)		
Insula	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		
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		
Inner	Sheath			
a)	Material	Extruded PVC Type ST2 to IS:5831, latest		





b)	Minimum thickness (mm)	0.7	
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%	
Outer Sheath			
(i)	Material	Extruded PVC Type 'ST2' as per IS:5831, latest	
(ii)	Thickness (mm)	2.68 (Min.)	
(iii)	Colour of sheath	Black	
Electrical Parameters			
a)	Max. a.c. resistance of conductor at 90° C (ohm/km)	0.130	
b)	Approx. Cable Capacitance (mfd/km)	0.45	
c)	Approx. Cable reactance (ohm/km)	0.0851	
d)	Impedance of cable (ohm/km)	0.155	
Continuous Current carrying capacities :-			
(a)	In Ground at 30°C (A)	354	
(b)	In Air at 40°C (A)	441	
Short C (kA)	ircuit rating of conductor for the duration of 1 sec	28.35	
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	
Approx. Overall diameter (mm)		70.0 ± 3.0	
Embossing		YEAR POLYCAB ELECTRIC 6.35/11 KV (E) GRADE XLPE	
Printing		YEAR POLYCAB ELECTRIC 6.35/11 KV (E) GRADE XLPE CABLE SIZE CABLE TYPE WITH SEQUENTIAL MARKING at every one meter interval.	
Minimum Bending radius(mm)		15 times Overall diameter	
Standard Drum Length (mtr)		500 +/- 5%	
Non-Standard Drum Length (Mtr.)		Maximum 5% of order quantity	
		Maximum 570 of order qualitity	

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