





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: MVIS17AXSFY2003C035SA001S Document ID: TE/QMS/F/02

Partio	culars	3 Core X 35 Sq.mm		
Name	of Manufacturer	POLYCAB INDIA LTD		
Туре о	f Cable	A2XFY		
Voltag	e Grade kV	6.35/11 (E)		
No of o	cores X size in sqmm	3 Core X 35 Sq.mm		
	num conductor temperature under normal ing conditions	90°C		
Maxim short o	num conductor temperature at the termination of circuit	250°C		
Permis	ssible Voltage Variation	± 10%		
Permis	ssible Frequency Variation	± 5%		
Combi	ined Voltage & Frequency variation	± 10%		
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)	0.868		
c)	Shape	Stranded Compacted Circular		
Cond	Conductor 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)	0.5		
Arm	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%		
Out	Outer Sheath			
(i)	Material	Extruded PVC Type 'ST2' as per IS:5831, latest		
(ii)	Thickness (mm)	1.72 (Min.)		
(iii)	Colour of sheath	Black		
Elec	Electrical Parameters			
a)	Max. a.c. resistance of conductor at 90° C (ohm/km)	1.11		
b)	Approx. Cable Capacitance (mfd/km)	0.20		
c)	Approx. Cable reactance (ohm/km)	0.120		
d)	Impedance of cable (ohm/km)	1.12		
Con	Continuous Current carrying capacities :-			
(a)	In Ground at 30°C (A)	112		
(b)	In Air at 40°C (A)	124		
Short (kA)	Circuit rating of conductor for the duration of 1 sec	3.31		
Stanc	lard 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		
Appr	ox. Overall diameter (mm)	40.5 ± 2.0		
Embo	ossing	YEAR POLYCAB ELECTRIC 6.35/11 KV (E) GRADE XLPE		
Printi	ng	YEAR POLYCAB ELECTRIC 6.35/11 KV (E) GRADE XLPE CABLE SIZE CABLE TYPE WITH SEQUENTIAL MARKING at every one meter interval.		
Minir	num Bending radius(mm)	15 times Overall diameter		
Stand	lard Drum Length (mtr)	500 +/- 5%		

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