



**HT XLPE CABLE**

TDS Doc.No:PIL/TE/250425/001791

DESIGN CODE : MVIS17AXSFY2003C035SA001S

Particulars	3 Core X 35 Sq.mm
Name of Manufacturer	POLYCAB INDIA LTD
Type of Cable	A2XFY
Voltage Grade kV	6.35/11 (E)
No of cores X size in sqmm	3 Core X 35 Sq.mm
Maximum conductor temperature under normal operating conditions	90°C
Maximum conductor temperature at the termination of short circuit	250°C
Permissible Voltage Variation	± 10%
Permissible Frequency Variation	± 5%
Combined Voltage & Frequency variation	± 10%
<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)	0.868
c) Shape	Stranded Compacted Circular
<b>Conductor Screening</b>	
a) Material	Extruded Semi-conducting Compound
b) Nominal thickness (mm)	0.3
<b>Insulation</b>	
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)
<b>Insulation Screening</b>	
(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
<b>Inner Sheath</b>	
a) Material	Extruded PVC Type ST2 to IS:5831, latest

Format ID: TE/QMS/F/07, R-00, Date: 16/03/2025

b) Minimum thickness (mm)	0.5
<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%
<b>Outer Sheath</b>	
(i) Material	Extruded PVC Type 'ST2' as per IS:5831, latest
(ii) Thickness (mm)	1.72 (Min.)
(iii) Colour of sheath	Black
<b>Electrical Parameters</b>	
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
<b>Continuous Current carrying capacities :-</b>	
(a) In Ground at 30°C (A)	112
(b) In Air at 40°C (A)	124
Short Circuit rating of conductor for the duration of 1 sec (kA)	3.31
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)	40.5 ± 2.0
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