



HT XLPE CABLE

TDS Doc.No:PIL/TE/250425/002042

DESIGN CODE: MVIS11AXSFY2003C120SA001S

Particulars	3 X 120 Sqmm
Name of Manufacturer	Polycab India Ltd
Type of cable	A2XFY
Voltage Grade kV	11/11 (UE)
No of cores X size in sqmm	3 X 120
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%
Conductor	
a) Material	H4 Grade Aluminium as per Class 2 of IS: 8130/2013, latest
b) Max. D.C. resistance of conductor at 20° C (ohm/km)	0.253
c) Shape of the conductor	Stranded Compacted Circular
Conductor Screening	
a) Material	Extruded Semi-conducting Compound
b) Nominal thickness (mm)	0.3
Insulation	
a) Material	XLPE as per IS 7098(Pt-2)/2011
b) Nominal thickness (mm)	5.5
c) Core identification	By Coloured strips (Red, Yellow, Blue)
Insulation Screening	
Non - Metallic	
a) Material	Extruded Semi-conducting Compound
b) Nominal thickness (mm)	0.3
Metallic	
a) Material	Single Layer of Copper Tape
b) Approximate thickness (mm)	0.03

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

c) Earth fault Current withstand capacity of Cu Tape kA for 1 sec	0.46 kA for 1 Sec, 3 Core Combined
Inner Sheath	
a) Material	Extruded PVC Type 'ST2' as per IS:5831, latest
b) Minimum thickness (mm)	0.7
Armouring	
a) Material	Gal.Steel
b) Type of armouring	Flat Strip
c) Nominal size of armour (mm)	4.0 x 0.8
d) Tolerance on armour dimensions	± 10%
Outer Sheath	
a) Material	Extruded PVC Type 'ST2' as per IS:5831, latest
b) Thickness (mm)	2.36 (Min.)
c) Colour of outer sheath.	Black
Electrical Parameters	
a) Max. a.c. resistance of conductor at 90° C (ohm/km)	0.325
b) Approx. Cable Capacitance (mfd/km)	0.22
c) Approx. Cable reactance (ohm/km)	0.106
d) Impedance of cable (ohm/km)	0.342
Continuous Current carrying capacities :-	
a) In Ground at 30°C (A)	216
b) In Air at 40°C (A)	256
Short Circuit rating of conductor for the duration of 1 sec (kA)	11.34
Standard to which the cables confirm	IS 7098 Part 2/2011, IS 8130, IS 5831, IS 3975 etc. with latest up to date amendments
Approx. overall diameter of the cable in mm	66.0 ± 3.0
Embossing	YEAR POLYCAB ELECTRIC 11/11 KV (UE) GRADE XLPE
Printing	YEAR POLYCAB ELECTRIC 11/11 KV (UE) GRADE XLPE, CABLE SIZE, CABLE TYPE WITH SEQUENTIAL MARKING at every one meter interval.