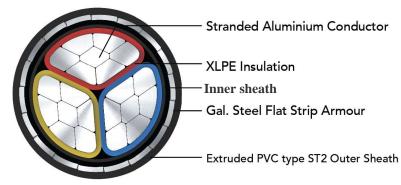
CABLES





DESIGN CODE : LVIS09AXSFY2003C120SA002S

LT XLPE CABLE

Document ID: TE/QMS/F/02

Core identification

Inner Sheath

c)

Particulars		3 Core X 120 Sq.mm		
Name of Manufacturer		Polycab India Ltd		
Type of cable		A2XFY		
Voltage Grade V		1100		
No of cores X size in sqmm		3 Core X 120 Sq.mm		
Conductor				
a)	Material	H2/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 Sector		
Insulation				
a)	Material	XLPE as per IS 7098(Pt-1)/88, Latest		
b)	Nominal thickness (mm)	1.2		

Red,Yellow,Blue

Wrapping of Tapes	Wrapping of Tapes

a)	Material	Wrapping of Tapes
b)	Minimum thickness (mm)	0.4
Armo	uring	
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	
a)	Material	Extruded PVC Type 'ST2' as per IS:5831 /84
b)	Thickness (mm)	1.56 (Min.)
c)	Colour of sheath	Black
Electr	ical Parameters	
a)	Max. a.c. resistance of conductor at 90° C (ohm/km)	0.325
b)	Calculated Cable reactance (ohm/km)	0.0713



c)	Impedance of cable (ohm/km)	0.333
d	Approx. Cable Capacitance (mfd/km)	0.67
	Maximum conductor temperature under normal operating conditions	90°C
	Maximum conductor temperature at the termination of short circuit	250°C
	Short Circuit rating of conductor for the duration of 1 sec (kA)	11.34
Cont	inuous Current carrying capacities :-	
(a)	In Ground at 30°C (A)	223
(b)	In Air at 40°C (A)	249
	Applicable Standard	IS 7098 Part I/88,IS 8130/2013,IS 5831/84, IS 3975/1999 etc. with latest up to date amendments
	Approx. overall diameter of the cable in mm	34.0 +/- 2.0
	Minimum bending radius	12 times Overall diameter
	Max. Tensile strength	
(i)	for Cables pulled with stocking (Newtons)	9 x D², D is the cable OD in mm
(ii)	for Cables pulled with pulling eyes (N)	10,800
	Embossing	POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE
	Printing	YEAR POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE CABLE SIZE CABLE TYPE WITH SEQUENTIAL MARKING at every one meter interval.
	Standard Drum Length (Mtr.)	500 ± 5%
	Non- 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.

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