





Stranded Aluminium Conductor

XLPE Insulation

Inner Sheath

Gal. Steel Flat Strip Armour

Extruded PVC type ST2 Outer Sheath



LT XLPE CABLE

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			DESIGN CODE: EVISO7AASI 123.3C2403A0023	
Parti	culars		3.5 Core X 240 Sq.mm	
Name	of Manufacturer		Polycab India Ltd	
Туре с	of cable		A2XFY	
Voltag	e Grade V		1100	
No of	cores X size in sqmm		3.5 Core X 240 Sq.mm	
Conductor				
a)	Material		H2/H4 Grade Aluminium as per Class 2 of IS: 8130/2013, latest	
b)	Max. d.c. resistance of conduction (ohm/km)	ctor at 20° C Main	0.125	
	1	Neutral	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)	Main	1.7	
	N	Neutral	1.2	
c)	Core identification		Red,Yellow,Blue,Black	
Inner Sheath				
a)	Material		Wrapping of Tapes	
b)	Minimum thickness (mm)		0.6	
Armouring				
a)	Material		Galvanised Steel	
b)	Type of armouring		Flat Strip	
c)	Nominal size of armour (mm)		4.0 x 0.8	
d)	d) Tolerance on armour dimensions		± 10%	
Outer Sheath				
a)	Material		Extruded PVC Type 'ST2' as per IS:5831	
b)	Thickness (mm)		2.04 (Min.)	
c)	Colour of outer sheath.		Black	
Electrical Parameters				

0.162

Max. a.c. resistance of conductor at 90° C

a)

(ohm/km)





Standard Drum Length (Mtr.)

Non-Standard Drum Length (Mtr.)

b) Calculated Cable reactance (ohm/km)	0.0713
c) Impedance of cable (ohm/km)	0.177
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)	22.68
Continuous Current carrying capacities:-	
(a) In Ground at 30°C (A)	327
(b) In Air at 40°C (A)	392
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	50.5 +/- 2.0
Minimum bending radius	12 times Overall diameter
Max. Tensile strength	
(i) for Cables pulled with stocking (Newtons)	$9 \times D^2$, D is the cable OD in mm
ii) for Cables pulled with pulling eyes (N)	25,200
Embossing	POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE
Printing	YEAR POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE CABLE SIZE, CABLE TYPE WITH SEQUENTIAL MARKIN at every one meter interval.

500 ± 5%

Maximum 5% of order quantity

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