



## LT XLPE CABLE

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DESIGN CODE : LVIS09AXAFY2001C150SA002S

Particulars	1 Core X 150 Sq.mm
Name of Manufacturer	Polycab India Ltd
Type of cable	A2XFaY
Voltage Grade V	1100
No of cores X size in sqmm	1 Core X 150 Sq.mm
<b>Conductor</b>	
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)	0.206
c) Shape of the conductor	Stranded Compacted Circular
<b>Insulation</b>	
a) Material	XLPE as per IS 7098(Pt-1)/88, Latest
b) Nominal thickness (mm)	1.7
c) Core identification	Natural
<b>Armouring</b>	
a) Material	Aluminium
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>	
a) Material	Extruded PVC Type 'ST2' as per IS:5831/ 84
b) Thickness (mm)	1.40 (Min.)
c) Colour of outer sheath.	Black
<b>Electrical Parameters</b>	
a) Max. a.c. resistance of conductor at 90° C (ohm/km)	0.265
b) Calculated Cable reactance (ohm/km)	0.0893
c) Impedance of cable (ohm/km)	0.280
d) Approx. Cable Capacitance (mfd/km)	0.64

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)	14.17

**Continuous Current carrying capacities :-**

(a) In Ground at 30°C (A)	256
(b) In Air at 40°C (A)	314
Applicable Standard	IS 7098 Part I/88, IS 8130/2013, IS 5831/84 etc. with latest up to date amendments
Approx. overall diameter of the cable in mm	22.5 +/- 2.0
Minimum bending radius	15 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)	4500
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.)	1000 ± 5%
Non- Standard Drum Length (Mtr.)	Maximum 5% of order quantity