





## LT XLPE CABLE

Document ID: TE/QMS/F/02 DESIGN CODE: LVIS09AXAFY2001C300SA002S

	culars	1 Core X 300 Sq.mm
Name of Manufacturer		Polycab India Ltd
Type of cable		A2XFaY
	e Grade V	1100
•	cores X size in sqmm	1 Core X 300 Sq.mm
Cond	uctor	
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)	0.100
c)	Shape of the conductor	Stranded Compacted Circular
Insula	ation	
a)	Material	XLPE as per IS 7098(Pt-1)/88, Latest
b)	Nominal thickness (mm)	2.1
c)	Core identification	Natural
Armo	ouring	
a)	Material	Aluminium
b)	Type of armouring	Flat Strip
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c)	Nominal size of armour (mm)	$4.0 \times 0.8$
c) d)	Tolerance on armour dimensions	4.0 x 0.8 ± 10%
d)		
d)	Tolerance on armour dimensions	
d) Oute	Tolerance on armour dimensions r Sheath	± 10%
d) Oute a)	Tolerance on armour dimensions  r Sheath  Material	± 10%  Extruded PVC Type 'ST2' as per IS:5831/84
d) Oute a) b) c)	Tolerance on armour dimensions  r Sheath  Material  Thickness (mm)	± 10%  Extruded PVC Type 'ST2' as per IS:5831/84  1.56 (Min.)
d) Oute a) b) c)	Tolerance on armour dimensions  r Sheath  Material  Thickness (mm)  Colour of outer sheath.	± 10%  Extruded PVC Type 'ST2' as per IS:5831/84  1.56 (Min.)
d) Oute a) b) c) Electi	Tolerance on armour dimensions  r Sheath  Material  Thickness (mm)  Colour of outer sheath.  rical Parameters  Max. a.c. resistance of conductor at 90° C	± 10%  Extruded PVC Type 'ST2' as per IS:5831/84  1.56 (Min.)  Black
d) Oute a) b) c) Election	Tolerance on armour dimensions  r Sheath  Material  Thickness (mm)  Colour of outer sheath.  rical Parameters  Max. a.c. resistance of conductor at 90° C (ohm/km)	± 10%  Extruded PVC Type 'ST2' as per IS:5831/84  1.56 (Min.)  Black  0.130





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)

28.35

**Continuous Current carrying capacities:** 

(a) In Ground at 30°C (A) 376 (b) In Air at 40°C (A) 500

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 30.0 +/- 2.0

Minimum bending radius 15 times Overall diameter

Max. Tensile strength

Printing

(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) 9,000

Embossing POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE

YEAR POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE CABLE SIZE CABLE TYPE WITH SEQUENTIAL MARKING at

every one meter interval.

Standard Drum Length (Mtr.)  $1000 \pm 5\%$ 

Non- Standard Drum Length (Mtr.) Maximum 5% of order quantity

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