



LT XLPE CABLE

TDS Doc.No:PIL/TE/250425/001632

DESIGN CODE : LVIS09CXAFY2001C630SA002S

Particulars	1 Core X 630 Sq.mm
Name of Manufacturer	Polycab India Ltd
Type of cable	2XFaY
Voltage Grade V	1100
No of cores X size in sqmm	1 Core X 630 Sq.mm
Conductor	
a) Material	Plain annealed Copper as per Class 2 of IS:8130/2013, latest
b) Max. d.c. resistance of conductor at 20° C (ohm/km)	0.0283
c) Shape of the conductor	Stranded Compacted Circular
Insulation	
a) Material	XLPE as per IS 7098(Pt-1)/88, Latest
b) Nominal thickness (mm)	2.8
c) Core identification	Natural
Armouring	
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%
Outer Sheath	
a) Material	Extruded 'PVC Type 'ST2' as per IS:5831
b) Thickness (mm)	1.72 (Min.)
c) Colour of outer sheath.	Black
Electrical Parameters	
a) Max. a.c. resistance of conductor at 90° C (ohm/km)	0.0426
b) Calculated Cable reactance (ohm/km)	0.0796
c) Impedance of cable (ohm/km)	0.0903
Maximum conductor temperature under normal operating conditions	90°C

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Maximum conductor temperature at the termination of short circuit 250°C

Short Circuit rating of conductor for the duration of 1 sec (kA) 90.14

Continuous Current carrying capacities :-

(a) In Ground at 30°C (A) 661

(b) In Air at 40°C (A) 961

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 40.5 ± 2.0

Minimum bending radius 15 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) 31,500

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