



LT XLPE CABLE

TDS Doc.No:PIL/TE/250425/000710

DESIGN CODE : LVIS09CXAWYL001C095SA001S

Particulars	1 Core X 95 Sq.mm
Name of Manufacturer	Polycab India Ltd
Type of cable	2XWaY
Voltage Grade V	1100
No of cores X size in sqmm	1 Core X 95 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) Main	0.193
c) Shape of the conductor	Stranded Compacted Circular
Insulation	
a) Material	XLPE as per IS 7098(Pt-1)/88, Latest
b) Nominal thickness (mm)	1.4
c) Core identification	Natural
Armouring	
a) Material	Aluminium
b) Type of armouring	Round Wire
c) Nominal size of armour (mm)	1.6
d) Tolerance on armour dimensions	± 0.045 mm
Outer Sheath	
a) Material	Extruded FR-LSH PVC Type 'ST2' as per IS:5831
b) Thickness (mm)	1.40 (Min.)
c) Colour of outer sheath.	Black
Electrical Parameters	
a) Max. a.c. resistance of conductor at 90° C (ohm/km)	0.247
b) Calculated Cable reactance (ohm/km)	0.0990
c) Impedance of cable (ohm/km)	0.266
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) 13.59

Continuous Current carrying capacities :-

(a) In Ground at 30°C (A) 260

(b) In Air at 40°C (A) 303

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 20.5 ± 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) 4,750

Embossing POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE FR-LSH

Printing

YEAR POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE FR-LSH 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

FR-LSH PROPERTIES

a) Oxygen Index Min. 29% as per ASTM D- 2863

b) Temperature Index Min. 250 Deg.C as per ASTM D- 2863

c) Smoke Density Rating Max. 60% as per ASTM D- 2843

d) Acid Gas Generation Max. 20% as per IEC- 754- 1

e) Flammability Test As per IEC:332-I