



## LT XLPE CABLE

Document ID: TE/QMS/F/02

DESIGN CODE : LVIS09AXSWYL002C010SA001S

Particulars	2 Core X 10 sq.mm
Name of Manufacturer	Polycab India Ltd
Type of cable	A2XWY
Voltage Grade V	1100
No of cores X size in sqmm	2 Core X 10 sq.mm
Conductor	
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)	3.08
c) Shape of the conductor	Stranded Circular
Insulation	
a) Material	XLPE as per IS 7098(Pt-1)/88, Latest
b) Nominal thickness (mm)	0.7
c) Core identification	Red,Black
Inner Sheath	
a) Material	Extruded PVC Type ST2 as per IS:5831/84
b) Minimum thickness (mm)	0.3
Armouring	
a) Material	Galvanised Steel
b) Type of armouring	Round Wire
c) Nominal size of armour (mm)	1.400
d) Tolerance on armour dimensions	± 0.040 mm
Outer Sheath	
a) Material	Extruded FR-LSH PVC Type 'ST2' as per IS:5831/84
b) Thickness (mm)	1.24 (Min.)
c) Colour of outer sheath.	Black
Electrical Parameters	
a) Max. a.c. resistance of conductor at 90° C (ohm/km)	3.95
b) Calculated Cable reactance (ohm/km)	0.0840

c)	Impedance of cable (ohm/km)	3.95
d)	Approx. Cable Capacitance (mfd/km)	0.36
	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)	0.94
<b>Continuous Current carrying capacities :-</b>		
(a)	In Ground at 30°C (A)	68
(b)	In Air at 40°C (A)	64
	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	18.0 ± 2.0
	Minimum bending radius	12 times Overall diameter
	Max. Tensile strength	
(i)	for Cables pulled with stocking (Newtons)	9 x D <sup>2</sup> , D is the cable OD in mm
(ii)	for Cables pulled with pulling eyes (N)	600
	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
<b>FR-LSH PROPERTIES</b>		
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