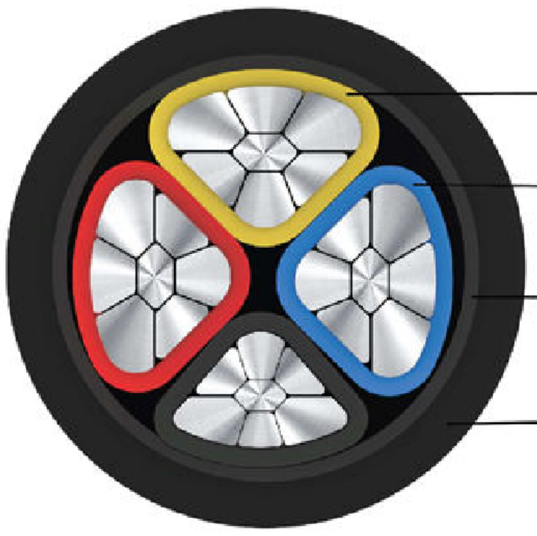
CABLES

POLYCAB





LT XLPE CABLE

TDS Doc.No:PIL/TE/250425/000871 **DESIGN CODE : LVIS09AXUAYL3.5C120SA001S**

Particulars	3.5 Core X 120 Sq.mm
Name of Manufacturer	Polycab India Ltd
Type of cable	A2XY
Voltage Grade V	1100
No of cores X size in sqmm	3.5 Core X 120 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) Main	0.253
Neutral	0.443
c) Shape of the conductor	Stranded Compacted Sector
Insulation	
a) Material	XLPE as per IS 7098(Pt-1)/88, Latest
b) Nominal thickness (mm) Main	1.2
Neutral	1.1
c) Core identifcation	Red,Yellow,Blue,Black
Inner Sheath	
a) Material	Extruded PVC Type ST2 as per IS:5831/84
b) Minimum thickness (mm)	0.4
Outer Sheath	
a) Material	Extruded FR-LSH PVC Type 'ST2' as per IS:5831
b) Thickness (mm)	2.2 (Nom.)
c) Colour of outer sheath.	Black
Electrical Parameters	
a) Max. a.c. resistance of conductor at 90° C (ohm/km)	0.325
b) Calculated Cable reactance (ohm/km)	0.0713
c) Impedance of cable (ohm/km)	0.333
d Approx. Cable Capacitance (mfd/km)	0.00
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)	11.34
Continuous Current carrying capacities :-		
(a)	In Ground at 30°C (A)	223
(b)	In Air at 40°C (A)	249
	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	37.5 +/- 2.0
	Minimum bending radius	12 times Overall diameter
	Max. Tensile strength	
(i)	for Cables pulled with stocking (Newtons)	5 x D^2, D is the cable OD in mm
ii)	for Cables pulled with pulling eyes (N)	12,900
	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.)	500 ± 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

Note:-The values given above are subject to tolerances as per the relevant standards

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