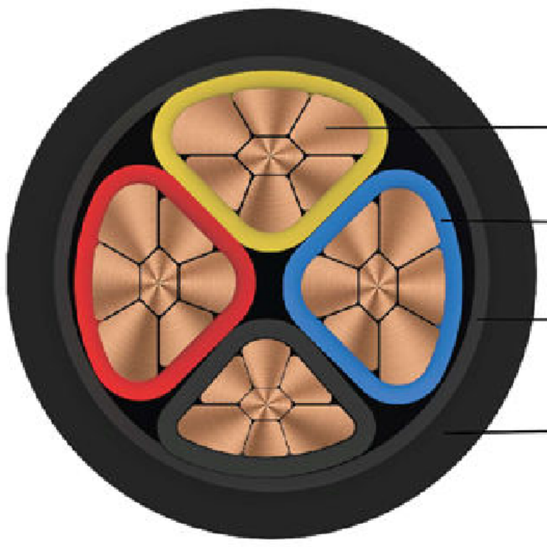
CABLES

POLYCAB





LT XLPE CABLE

TDS Doc.No:PIL/TE/250425/001249 **DESIGN CODE : LVIS09CXUAYL3.5C240SA001S**

Particulars			3.5 Core X 240 Sq.mm
Name of Manufacturer			Polycab India Ltd
Type of cable			2XY
Voltage Grade V			1100
No of cores X size in sqmm			3.5 Core X 240 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	0.0754
		Neutral	0.153
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	1.7
		Neutral	1.2
c)	Core identification		Red,Yellow,Blue,Black
Inner Sheath			
a)	Material		Extruded PVC Type ST2 as per IS:5831/84
b)	Minimum thickness (mm)		0.6
Outer Sheath			
a)	Material		Extruded FR-LSH PVC Type 'ST2' as per IS:5831
b)	Thickness (mm)		2.8 (Nom.)
c)	Colour of outer sheath.		Black
Electrical Parameters			
a)	Max. a.c. resistance of conductor at 90° C (ohm/km)		0.0988
b)	Calculated Cable reactance (ohm/km)		0.0713
c)	Impedance of cable (ohm/km)		0.122
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)	34.34
Continuous Current carrying capacities :-		
(a)	In Ground at 30°C (A)	418
(b)	In Air at 40°C (A)	500
	Applicable Standard	IS 7098 Part I/88, IS 8130, IS 5831 etc. with latest up to date amendments
	Approx. overall diameter of the cable in mm	53.0 ± 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)	42,000
	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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