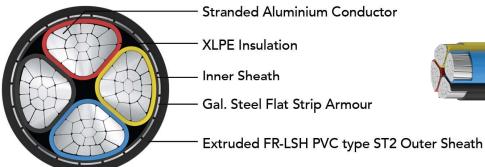


CABLES





LT XLPE CABLE

Document ID: TE/QMS/F/02

DESIGN CODE : LVIS09AXSFYL004C025SA002S

Part	iculars	4 Core X 25 Sq.mm	
Name	e of Manufacturer	Polycab India Ltd	
Туре	of cable	A2XFY	
Volta	ge Grade V	1100	
No of	cores X size in sqmm	4 Core X 25 Sq.mm	
Con	ductor		
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)	1.20	
c)	Shape of the conductor	Stranded Compacted Sector	
Insu	Insulation		
a)	Material	XLPE as per IS 7098(Pt-1)/88, Latest	
b)	Nominal thickness (mm)	0.9	
c)	Core identification	Red,Yellow,Blue,Black	
Inner Sheath			
a)	Material	Extruded PVC Type ST2 as per IS:5831/84	
b)	Minimum thickness (mm)	0.3	
Arm	ouring		
a)	Material	Galvanised Steel	
b)	Type of armouring	Flat Strip	
c)	Nominal size of armour (mm)	4.0 x 0.8	
d)	Tolerance on armour dimensions	± 10%	
Out	Outer Sheath		
a)	Material	Extruded FR-LSH PVC Type 'ST2' as per IS:5831/ 84	
b)	Thickness (mm)	1.40 (Min.)	
c)	Colour of outer sheath.	Black	
Elec	trical Parameters		
a)	Max. a.c. resistance of conductor at 90° C (ohm/km)	1.54	
b)	Calculated Cable reactance (ohm/km)	0.0808	



	c)	Impedance of cable (ohm/km)	1.54
	d	Approx. Cable Capacitance (mfd/km)	0.43
	Maximum conductor temperature under normal operating conditions		90°C
	Maximu short ci	um conductor temperature at the termination of rcuit	250°C
	Short C (kA)	ircuit rating of conductor for the duration of 1 sec	2.36
Continuous Current carrying capacities :-			
	(a)	In Ground at 30°C (A)	95
	(b)	In Air at 40°C (A)	93
	Applica	ble 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	23.5 +/- 2.0
	Minimu	m bending radius	12 times Overall diameter
	Max. Tensile strength		
	(i)	for Cables pulled with stocking (Newtons)	$9 \times D^2$, D is the cable OD in mm
	ii)	for Cables pulled with pulling eyes (N)	3,000
	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- St	andard Drum Length (Mtr.)	Maximum 5% of order quantity
	FR-LSI	H 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

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

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