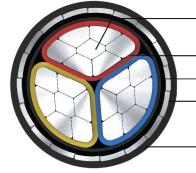


## CABLES



- Stranded Aluminium Conductor

<sup>-</sup> XLPE Insulation - Extruded Inner Sheath - Gal. Steel Flat Strip Armour



Extruded FR-LSH PVC Type ST2 Outer sheath

## LT XLPE CABLE

## Document ID: TE/QMS/F/02

<b>DESIGN CODE :</b>	LVIS09AXSFYL	.003C070SA002S
DEDIGIT CODE :		

Part	iculars	3 Core X 70 Sq.mm		
Nam	e of Manufacturer	Polycab India Ltd		
Туре	of cable	A2XFY		
Volta	ge Grade V	1100		
No o	f cores X size in sqmm	3 Core X 70 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)	0.443		
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)	1.1		
c)	Core identification	Red,Yellow,Blue		
Inne	Inner Sheath			
a)	Material	Extruded PVC Type ST2 as per IS:5831/84		
b)	Minimum thickness (mm)	0.4		
Arm	Armouring			
a)	Material	Galvanised Steel		
b)	Type of armouring	Flat Strip		
c)	Nominal size of armour (mm)	4.0 × 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)	1.56 (Min.)		
c)	Colour of sheath	Black		
Elec	Electrical Parameters			
a)	Max. a.c. resistance of conductor at 90° C (ohm/km)	0.568		
b)	Calculated Cable reactance (ohm/km)	0.0742		



## CABLES

c)	Impedance of cable (ohm/km)	0.573
d	Approx. Cable Capacitance (mfd/km)	0.56
	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)	6.61
Continuous Current carrying capacities :-		
(a)	In Ground at 30°C(A)	164
(b)	In Air at 40°C (A)	175
	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	28.5 +/- 2.0
	Minimum bending radius	12 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)	6,300
	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-LS	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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