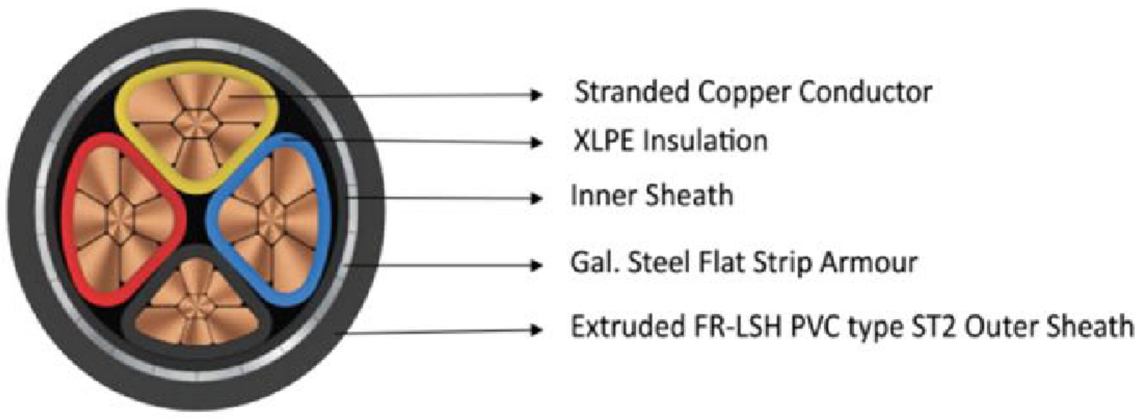
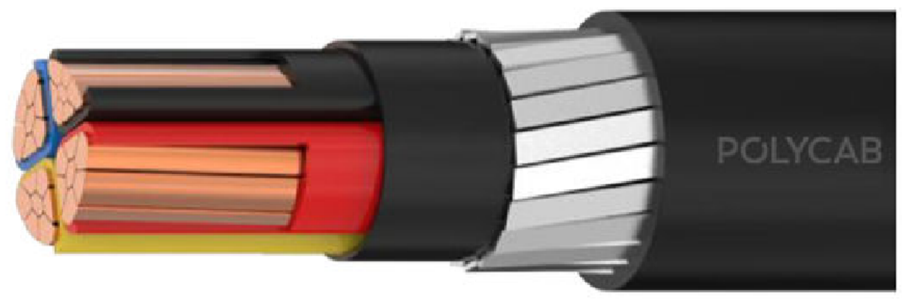
CABLES

POLYCAB





LT XLPE CABLE

TDS Doc.No:PIL/TE/250425/001130

DESIGN CODE: LVIS09CXSFYL3.5C185SA001S

	Particulars		3.5 Core X 185 Sq.mm
	Name of Manufacturer		Polycab India Ltd
	Type of cable		2XFY
	Voltage Grade V		1100
	No of cores X size in sqmm		3.5 Core X 185 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	0.0991
		Neutral	0.193
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	1.6
		Neutral	1.1
c)	Core identification		Red,Yellow,Blue,Black
	Inner Sheath		
a)	Material		Extruded PVC Type ST2 as per IS:5831/84
b)	Minimum thickness (mm)		0.5
	Armouring		
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%
	Outer Sheath		
a)	Material		Extruded FR-LSH PVC Type 'ST2' as per IS:5831
b)	Thickness (mm)		1.88 (Min.)
c)	Colour of sheath		Black
	Electrical Parameters		
a)	Max. a.c. resistance of conductor at 90° C (ohm/km)		0.128
b)	Calculated Cable reactance (ohm/km)		0.072
c)	Impedance of cable (ohm/km)		0.147

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d)	Approx. Cable Capacitance (mfd/km)	0.63
	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)	26.47
	Continuous Current carrying capacities :-	
(a)	In Ground at 30°C (A)	362
(b)	In Air at 40°C (A)	422
	Applicable Standard	IS 7098 Part I/88, IS 8130, IS 5831, IS 3975 etc. with latest up to date amendments
	Approx. overall diameter of the cable in mm	46.0 +/- 2.0
	Minimum bending radius	12 times Overall diameter
	Max. Tensile strength	
(i)	for Cables pulled with stocking (Newtons)	9 x D^2, D is the cable OD in mm
(ii)	for Cables pulled with pulling eyes (N)	32500
	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