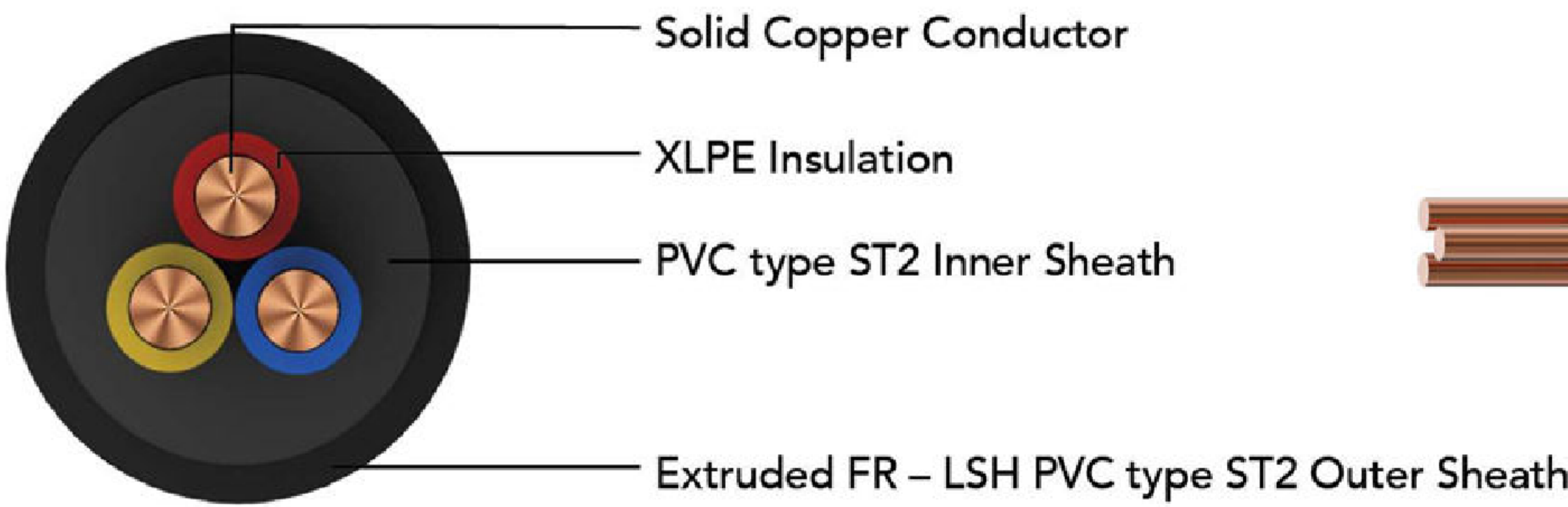




LT XLPE CABLE

TDS Doc.No:PIL/TE/250425/002670

DESIGN CODE : LVIS09CXUAYL003C1.5SA002S

Particulars		3 Core X 1.5 Sq.mm
Name of Manufacturer		Polycab India Ltd.
Type of cable		2XY
Voltage Grade V		1100
No of cores X size in sqmm		3 Core X 1.5 Sq.mm
Conductor		
a)	Material	Plain annealed Copper as per Class 1 of IS:8130/2013
b)	Max. d.c. resistance of conductor at 20° C (ohm/km)	12.1000
c)	Shape of the conductor	Solid Circular
Insulation		
a)	Material	XLPE as per IS 7098(Pt-1)/88, Latest
b)	Nominal thickness (mm)	0.7
c)	Core Identification	Red,Yellow and Blue
Inner Sheath		
a)	Material	Extruded PVC Type ST2 as per IS:5831/84
b)	Minimum thickness (mm)	0.3
Armouring		Not Applicable
Outer Sheath		
a)	Material	Extruded FR-LSH PVC Type ST2 as per IS:5831/84
b)	Thickness (mm)	1.8 (Nom.)
c)	Colour of outer sheath.	Black
Electrical Parameters		
a)	Max. a.c. resistance of conductor at 90° C (ohm/km)	15.4000
b)	Calculated Cable reactance (ohm/km)	0.1060
c)	Impedance of cable (ohm/km)	15.400
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) 0.21

Continuous Current carrying capacities :-

(a) In Ground at 30°C (A) 26

(b) In Air at 40°C (A) 23

Applicable Standard IS 8130/2013, IS 7098 Part I/88, IS 5831/84, IS 3975/1999 etc. with latest up to date amendments

Approx. overall diameter of the cable in mm 10.5 ± 2.0

Minimum bending radius 12 times Overall diameter

Max. Tensile strength

(i) for Cables pulled with stocking (Newtons) $5 \times D^2$, D is the cable OD in mm

(ii) for Cables pulled with pulling eyes (N) 225

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.) $1000 \pm 5\%$

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 |