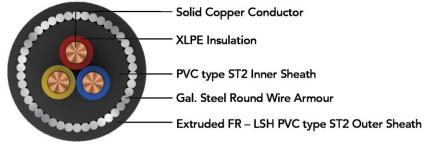


CABLES





LT XLPE CABLE

Document ID:TE/QMS/F/02

DESIGN CODE: LVIS09CXSWYL003C004SA002S

Particulars	3 Core X 4 Sq.mm	
Name of Manufacturer	Polycab India Ltd	
Type of cable	2XWY	
Voltage Grade V	1100	
No of cores X size in sqmm	3 Core X 4 Sq.mm	
Conductor		
Material	Plain annealed Copper as per Class 1 of IS:8130/2013, latest	
Max. D.C. resistance of conductor at 20° C (ohm/km)	4.61	
Shape of the conductor	Solid Circular	
Insulation		
Material	XLPE as per IS 7098(Pt-1)/88, Latest	
Nominal thickness (mm)	0.7	
Core identification	Red,Yellow,Blue	
Inner Sheath		
Material	Extruded PVC Type ST2 as per IS:5831/84	
Minimum thickness (mm)	0.3	
Armouring		
Material	Galvanised Steel	
Type of armouring	Round Wire	
Nominal size of armour (mm)	1.4	
Tolerance on armour dimensions	± 0.040 mm	
Outer Sheath		
Material	Extruded FR-LSH PVC Type 'ST2' as per IS:5831/ 84	
Thickness (mm)	1.24 (Min.)	
Colour of outer sheath.	Black	
Electrical Parameters		
Max. a.c. resistance of conductor at 90° C (ohm/km)	5.88	
Calculated Cable reactance (ohm/km)	0.0919	
Impedance of cable (ohm/km)	5.88	
Approx. Cable Capacitance (mfd/km)	0.23	
Rev.No.:00 Issued Date:02/04/2018		

Note: -The values given above are subject to tolerances as per the relevant standards. www.polycab.com | Toll Free No - 1800 267 0008 | Email: enquiry@polycab.com

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	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)	0.57
	Continuous Current carrying capacities :-	
	In Ground at 30°C (A)	45
	In Air at 40°C (A)	41
	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	14.0 +/- 2.0
	Minimum bending radius Max. Tensile strength	12 times Overall diameter
	for Cables pulled with stocking (Newtons) for Cables pulled with pulling eyes (N)	9 x D^2 , D is the cable OD in mm 600
	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	
	Oxygen Index	Min. 29% as per ASTM D- 2863
	Temperature Index	Min. 250 Deg.C as per ASTM D- 2863
	Smoke Density Rating	Max. 60% as per ASTM D- 2843
	Acid Gas Generation	Max. 20% as per IEC- 754- 1
	Flammability Test	As per IEC:332-I

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