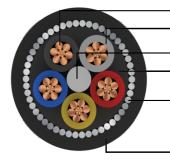


## CABLES



Document ID:TE/QMS/F/02

Stranded Copper Conductor XLPE Insulation Filler (Optional) Inner Sheath

- Gal. Steel Round Wire Armour



## Extruded FR-LSH PVC type ST2 Outer Sheath LT XLPE CABLE

## DESIGN CODE: LVIS09CXSWYL005C004SA001S

Particulars	5 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	5 Core X 4 Sq.mm
Conductor	
a) Material	Plain annealed Copper as per Class 2 of IS:8130/2013
<ul> <li>b) Max. D.C. resistance of conductor at 20° C (ohm/km)</li> </ul>	4.61
c) Shape of the conductor	Stranded Circular
Insulation	
a) Material	XLPE as per IS 7098(Pt-1)/88, Latest
b) Nominal thickness (mm)	0.7
c) Core identification	Red,Yellow, Blue, Black & Grey
Inner Sheath	
a) Material	Extruded PVC Type ST2 as per IS:5831/84
b) Minimum thickness (mm)	0.3
Armouring	
a) Material	Galvanised Steel
b) Type of armouring	Round Wire
c) Nominal size of armour (mm)	1.4
d) Tolerance on armour dimensions	+/- 0.040
Outer Sheath	
a) Material	Extruded FR-LSH PVC Type ST2 as per IS:5831/84
b) Thickness (mm)	1.24 (Min.)
c) Colour of outer sheath.	Black
Electrical Parameters	
a) Max. a.c. resistance of conductor at 90° C (ohm/km)	5.88
b) Calculated Cable reactance (ohm/km)	0.093
c) Impedance of cable (ohm/km)	5.88
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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	d) Approx. Cable Capacitance (mfd/km)	0.25
	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 :-	
	a) In Ground at 30°C (A)	45
	b) In Air at 40°C (A)	41
	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	17.5 +/- 2.0
	Minimum bending radius Max. Tensile strength	12 times Overall diameter
	<ul> <li>i) for Cables pulled with stocking (Newtons)</li> </ul>	$9 \ge D^2$ , D is the cable OD in mm
	ii) for Cables pulled with pulling eyes (N)	1000
	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

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