





Stranded Copper Conductor XLPE Insulation Filler (Optional) Inner Sheath

Gal. Steel Round Wire Armour



DESIGN CODE: LVIS09CXSWYL005C2.5SA001S

Extruded FR-LSH PVC type ST2 Outer Sheath

LT XLPE CABLE

Document ID: TE/QMS/F/02

Calculated Cable reactance (ohm/km)

Particulars5 Core X 2.5 Sq.mmName of ManufacturerPolycab India Ltd.Type of cable2XWYVoltage Grade V1100No of cores X size in sqmm5 Core X 2.5 Sq.mm	
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Conductor	
a) Material Plain annealed Copper as per Class	s 2 of IS:8130/2013
b) Max. d.c. resistance of conductor at 20° C (ohm/km) 7.41	
c) Shape of the conductor Stranded Circular	
Insulation	
a) Material XLPE as per IS 7098(Pt-1)/88, Late	st
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:5	831/84
b) Minimum thickness (mm) 0.3	
Armouring	
a) Material Galvanised Steel	
b) Type of armouring Round Wire	
c) Nominal size of armour (mm) 1.400	
d) Tolerance +/- 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) 9.45	

0.0990





c) Impedance of cable (ohm/km)	9.45
d Approx. Cable Capacitance (mfd/km)	0.21
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)	0.36
Continuous Current carrying capacities:-	
(a) In Ground at 30°C (A)	34
(b) In Air at 40° C (A)	30
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	15.5 +/- 2.0
Minimum bending radius	12 times Overall diameter
Max. Tensile strength	
(i) for Cables pulled with stocking (Newtons)	$9 \times D^2$, D is the cable OD in mm
(ii) for Cables pulled with pulling eyes (N)	625
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

FR-I SH	PROPERTIES
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Standard Drum Length (Mtr.)

Non- Standard Drum Length (Mtr.)

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

MARKING at every one meter interval.

Maximum 5% of order quantity

1000 ± 5%

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Note:-The values given above are subject to tolerances as per the relevant standards.