





- Soild Copper Conductor

XLPE Insulation
Inner Sheath

Gal. Steel Round Wire Armour



- Extruded FR-LSH PVC type ST2 Outer Sheath

LT XLPE CABLE

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Parti	culars	7 Core X 2.5 Sq.mm	
Name of Manufacturer		Polycab India Ltd.	
Type of cable		2XWY	
Voltage Grade V		1100	
No of cores X size in sqmm		7 Core X 2.5 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)	7.41	
c)	Shape of the conductor	Solid Circular	
Insul	ation		
a)	Material	XLPE as per IS 7098(Pt-1)/88, Latest	
b)	Nominal thickness (mm)	0.7	
c)	Core Identification	All cores Grey with number printing	
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	+/- 0.040	
Oute	er 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)	9.5	
b)	Calculated Cable reactance (ohm/km)	0.098	





c) Impedance of cable (ohm/km)	9.5
d) Approx. Cable Capacitance (mfd/km)	0.190
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)	27
(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	16.0 +/- 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)	875
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 ± 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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Note:-The values given above are subject to tolerances as per the relevant standards.