



LT XLPE CABLE

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Particulars		12 Core X 2.5 Sq.mm
Name of Manufacturer		Polycab India Ltd.
Type of cable		2XFY
Voltage Grade V		1100
No of cores X size in sqmm		12 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
Insulation		
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		Wrapping of Tapes
b) Minimum thickness (mm)		0.3
Armouring		
a) Material		Galvanised Steel
b) Type of armouring		Flat Strip
c) Nominal size of armour (mm)		4.0 x 0.8
d) Tolerance		+/-10%
Outer Sheath		
a) Material		Extruded PVC Type ST2 as per IS:5831/84
b) Thickness (mm)		1.40 (Min.)
c) Colour of outer sheath.		Black
Electrical Parameters		
a) Max. a.c. resistance of conductor at 90° C (ohm/km)		9.45
b) Calculated Cable reactance (ohm/km)		0.0983
c) Impedance of cable (ohm/km)		9.45
d) Approx. Cable Capacitance (mfd/km)		0.19
Maximum conductor temperature under normal operating conditions		90°C

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

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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)	20
(b) In Air at 40°C (A)	18
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	18.5 ± 2
Minimum bending radius	12 times Overall diameter
Max. Tensile strength	
(i) for Cables pulled with stocking (Newtons)	9 x D ² , D is the cable OD in mm
(ii) for Cables pulled with pulling eyes (N)	1500
Embossing	POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE
Printing	YEAR POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE 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