





- Stranded Copper Conductor

XLPE Insulation

PVC type ST2 Inner Sheath

Gal. Steel Flat Strip Armour

Extruded PVC type ST2 Outer Sheath



LT XLPE CABLE

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Partio	culars	2 Core X 16 Sq.mm		
Name of Manufacturer		Polycab India Ltd		
Type of cable		2XFY		
Voltage Grade V		1100		
No of cores X size in sqmm		2 Core X 16 Sq.mm		
Conductor				
a)	Material	Plain annealed Copper as per Class 2 of IS:8130, latest		
b)	Max. d.c. resistance of conductor at 20° C (ohm/km)	1.15		
c)	Shape of the conductor	Stranded Compacted Sector		
Insulation				
a)	Material	XLPE as per IS 7098(Pt-1)/88, Latest		
b)	Nominal thickness (mm)	0.7		
c)	Core Identification	Red,Black		
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	Flat Strip		
c)	Nominal size of armour (mm)	4.0×0.8		
d)	Tolerance	± 10%		
Outer Sheath				
a)	Material	Extruded 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)	1.47		
b)	Calculated Cable reactance (ohm/km)	0.0805		





Continuous Current carrying capacities:			
Short Circuit rating of conductor for the duration of 1 sec (kA) $ \label{eq:conductor}$	2.29		
Maximum conductor temperature at the termination of short circuit	250°C		
Maximum conductor temperature under normal operating conditions	90°C		
d Approx. Cable Capacitance (mfd/km)	0.43		
c) Impedance of cable (ohm/km)	1.47		

Continuous Current carrying capacities:			
(a) In Ground at 30°C (A)	115		
(b) In Air at 40°C (A)	108 Generally as per IS 7098 Part I/88, IS 8130/2013, IS		
Applicable Standard	5831/84, IS 3975/1999 etc. with latest up to date		
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)	1600		
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		

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