



TECHNICAL PARTICULARS OF LT XLPE CABLE

Customer- Vashi Electricals

S.No	Particulars	24 X 2.5
1	Name of Manufacturer	Polycab Wires Pvt. Ltd, India
2	Type of cable	2XFY
3	Voltage Grade V	1100
4	No of cores X size in sqmm	24 X 2.5
5	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)	7.41
c)	Shape of the conductor	Stranded Circular
6	Insulation	
a)	Material	XLPE as per IS 7098(Pt-1)/88, Latest
b)	Nominal thickness (mm)	0.7
c)	Core Identification	All core grey with number printing
7	Inner Sheath	
a)	Material	Wrapping of Tapes
b)	Minimum thickness (mm)	0.3
8	Armouring	
a)	Material	Galvanised Steel
b)	Type of armouring	Flat Strip
c)	Nominal size of armour (mm)	4.0 x 0.8
d)	Tolerance on armour dimensions	± 10%
9	Outer Sheath	
a)	Material	Extruded PVC Type 'ST2' as per IS:5831
b)	Thickness (mm)	1.40 (Min.)
c)	Colour of outer sheath.	Black
10	Electrical Parameters	
a)	Max. a.c. resistance of conductor at 90° C (ohm/km)	9.45
b)	Calculated Cable reactance (ohm/km)	0.0990
c)	Impedance of cable (ohm/km)	9.45
d)	Approx. Cable Capacitance (mfd/km)	0.21
11	Maximum conductor temperature under normal operating conditions	90°C
12	Maximum conductor temperature at the termination of short circuit	250°C
13	Short Circuit rating of conductor for the duration of 1 sec (kA)	0.36
14	Continuous Current carrying capacities :-	
(a)	In Ground at 30°C (A)	16
(b)	In Air at 40°C (A)	14
15	Applicable Standard	IS 7098 Part I/88, IS 8130, IS 5831, IS 3975 etc. with latest up to date amendments
16	Approx. overall diameter of the cable in mm	26.0 ± 2.0
17	Minimum bending radius	12 times Overall diameter
18	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)	3,000
19	Printing	YEAR POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE , CABLE SIZE, CABLE TYPE WITH SEQUENTIAL MARKING at every one meter interval.

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

TDS NO. 180219-5247

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