







## LT XLPE CABLE

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		DESIGN CODE: LVISUYAXSF12003C0505A0025
Part	ticulars	3 Core X 50 sq.mm
Nam	e of Manufacturer	Polycab India Ltd
Туре	of cable	A2XFY
Volta	age Grade V	1100
No o	f cores X size in sqmm	3 Core X 50 sq.mm
Con	nductor	
a)	Material	H2/H4 Grade Aluminium as per Class 2 of IS: 8130/2013, latest
b)	Max. d.c. resistance of conductor at 20° C (ohm/km)	0.641
c)	Shape of the conductor	Stranded Compacted Sector
Insu	lation	
a)	Material	XLPE as per IS 7098(Pt-1)/88, Latest
b)	Nominal thickness (mm)	1.0
c)	Core identification	Red,Yellow,Blue
Inne	er Sheath	
a)	Material	Wrapping of Tapes
b)	Minimum thickness (mm)	0.3
Arm	nouring	
a)	Material	Galvanised Steel
b)	Type of armouring	Flat Strip
c)	Nominal size of armour (mm)	$4.0 \times 0.8$
d)	Tolerance on armour dimensions	± 10%
Out	er Sheath	
a)	Material	Extruded PVC Type 'ST2' as per IS:5831 /84
b)	Thickness (mm)	1.40 (Min.)
c)	Colour of sheath	Black
Elec	trical Parameters	
a)	Max. a.c. resistance of conductor at 90° C (ohm/km)	0.822
b)	Calculated Cable reactance (ohm/km)	0.0780





d Approx. Cable Capacitance (mfd/km) 0.53  Maximum conductor temperature under normal operating conditions  Maximum conductor temperature at the termination of short circuit  Short Circuit rating of conductor for the duration of 1 sec (kA)	c)	Impedance of cable (ohm/km)	0.826
operating conditions  Maximum conductor temperature at the termination of short circuit  Short Circuit rating of conductor for the duration	d	Approx. Cable Capacitance (mfd/km)	0.53
termination of short circuit  Short Circuit rating of conductor for the duration  4.72			90°C
- 4//		•	250°C
or race (new)		Short Circuit rating of conductor for the duration of 1 sec (kA)	4.72

	of I sec (KA)	
Con	tinuous Current carrying capacities :-	
(a)	In Ground at 30°C (A)	134
(b)	In Air at 40°C (A)	138
	Applicable Standard	IS 7098 Part I/88,IS 8130/2013,IS 5831/84, IS 3975/1999 etc. with latest up to date amendments
	Approx. overall diameter of the cable in mm	25.5 +/- 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)	4,500
	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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