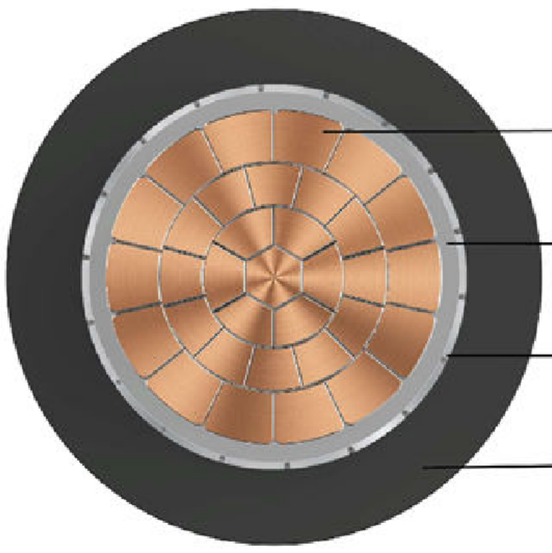
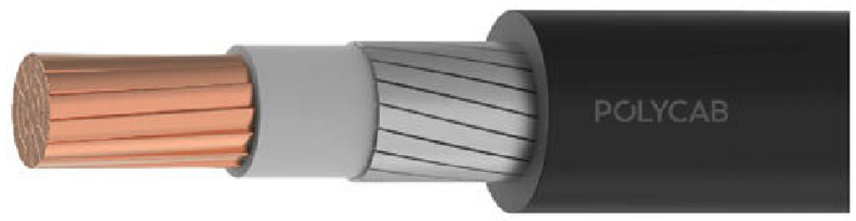
CABLES

POLYCAB





LT XLPE CABLE

TDS Doc.No:PIL/TE/250425/001547

DESIGN CODE : LVIS09CXAFY2001C500SA002S

Particulars		1 Core X 500 Sq.mm
Name of Manufacturer		Polycab India Ltd
Type of cable		2XFaY
Voltage Grade V		1100
No of cores X size in sqmm		1 Core X 500 Sq.mm
Conductor		
a)	Material	Plain annealed Copper as per Class 2 of IS:8130/2013, latest
b)	Max. d.c. resistance of conductor at 20° C (ohm/km)	0.0366
c)	Shape of the conductor	Stranded Compacted Circular
Insulation		
a)	Material	XLPE as per IS 7098(Pt-1)/88, Latest
b)	Nominal thickness (mm)	2.6
c)	Core identification	Natural
Armouring		
a)	Material	Aluminium
b)	Type of armouring	Flat Strip
c)	Nominal size of armour (mm)	4.0 x 0.8
d)	Tolerance on armour dimensions	± 10%
Outer Sheath		
a)	Material	Extruded 'PVC Type 'ST2' as per IS:5831
b)	Thickness (mm)	1.56 (Min.)
c)	Colour of outer sheath.	Black
Electrical Parameters		
a)	Max. a.c. resistance of conductor at 90° C (ohm/km)	0.0519
b)	Calculated Cable reactance (ohm/km)	0.0806
c)	Impedance of cable (ohm/km)	0.0959
Maximum conductor temperature under normal operating conditions		90°C

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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)	71.54
Continuous Current carrying capacities :-	
(a) In Ground at 30°C (A)	598
(b) In Air at 40°C (A)	844
Applicable Standard	IS 7098 Part I/88, IS 8130/2013, IS 5831/84 etc. with latest up to date amendments
Approx. overall diameter of the cable in mm	37.0 ± 2.0
Minimum bending radius	15 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)	25,000
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.)	500 ± 5%
Non- Standard Drum Length (Mtr.)	Maximum 5% of order quantity

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