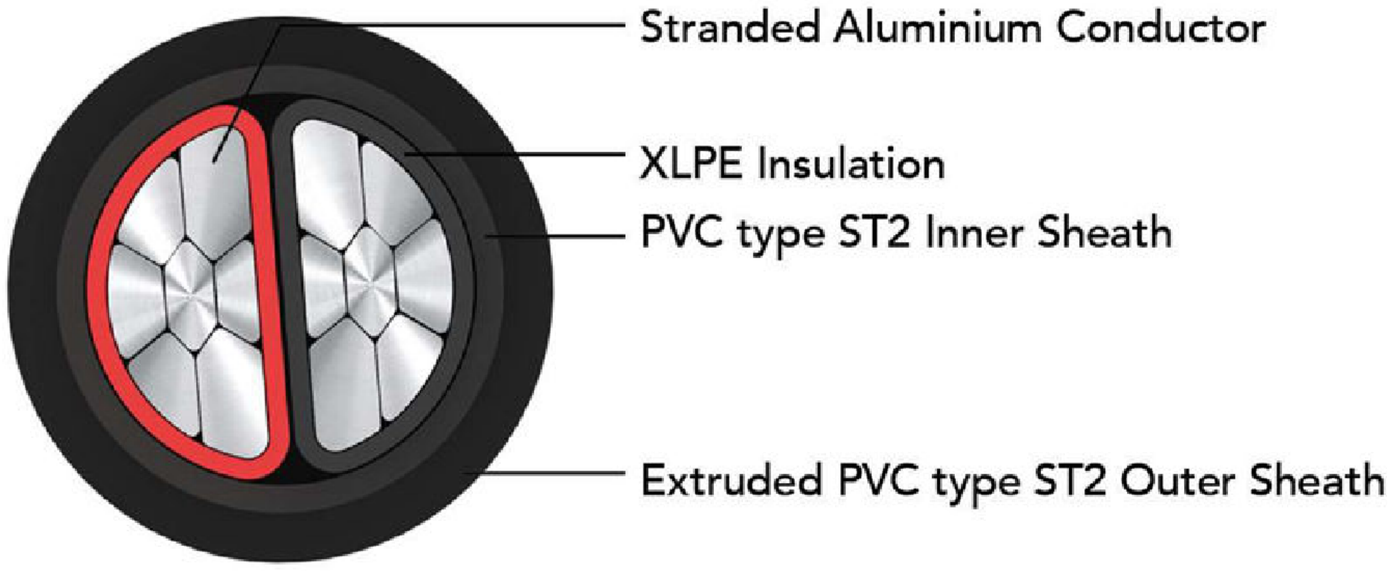
CABLES

POLYCAB





LT XLPE CABLE

TDS Doc.No:PIL/TE/250425/001561

DESIGN CODE : LVIS09AXUAY2002C500SA001S

Particulars		2 Core X 500 Sq.mm
Name of Manufacturer		Polycab India Ltd
Type of cable		A2XY
Voltage Grade V		1100
No of cores X size in sqmm		2 Core X 500 Sq.mm
Conductor		
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)	0.0605
c)	Shape of the conductor	Stranded Compacted Sector
Insulation		
a)	Material	XLPE as per IS 7098(Pt-1)/88, Latest
b)	Nominal thickness (mm)	2.2
c)	Core identification	Red,Black
Inner Sheath		
a)	Material	Extruded PVC Type ST2 as per IS:5831/84
b)	Minimum thickness (mm)	0.7
Outer Sheath		
a)	Material	Extruded PVC Type 'ST2' as per IS:5831
b)	Thickness (mm)	3.4 (Nom.)
c)	Colour of sheath	Black
Electrical Parameters		
a)	Max. a.c. resistance of conductor at 90° C (ohm/km)	0.0801
b)	Calculated Cable reactance (ohm/km)	0.0700
c)	Impedance of cable (ohm/km)	0.106
Maximum conductor temperature under normal operating conditions		90°C
Maximum conductor temperature at the termination of short circuit		250°C
Short Circuit rating of conductor for the duration of 1 sec (kA)		47.24
Continuous Current carrying capacities :-		
(a)	In Ground at 30°C (A)	548
(b)	In Air at 40°C (A)	683

Format ID: TE/QMS/F/07, R-00, Date: 16/03/2025

CABLES

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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	57.0 ± 2.0
Minimum bending radius	12 times Overall diameter
Max. Tensile strength	
(i) for Cables pulled with stocking (Newtons)	5 x D^2, D is the cable OD in mm
(ii) for Cables pulled with pulling eyes (N)	30,000
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

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