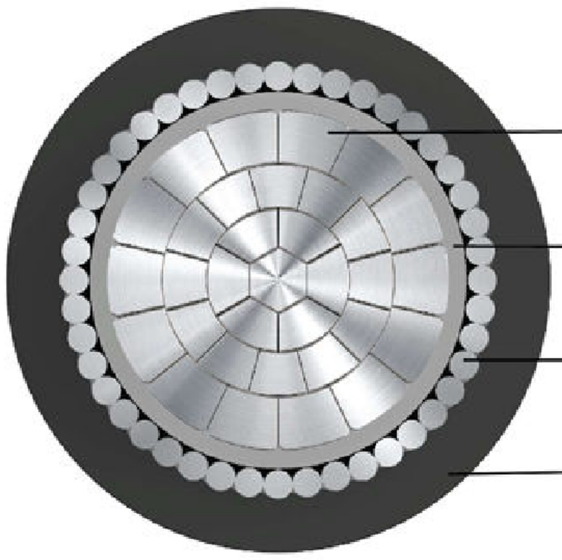
POLYCAB

CABLES

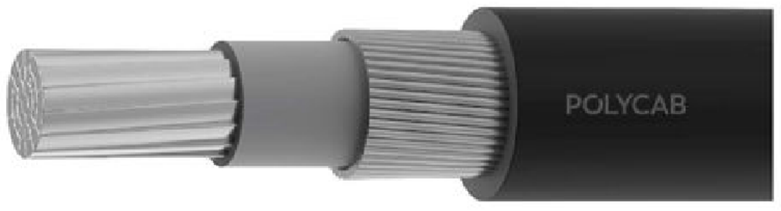


Stranded Aluminium Conductor

XLPE Insulation

Aluminium Round Wire Armour

Extruded PVC type ST2 Outer Sheath



LT XLPE CABLE

TDS Doc.No:PIL/TE/250425/000465

DESIGN CODE : LVIS09AXAWY2001C050SA002S

Particulars		1 Core X 50 Sq.mm
Name of Manufacturer		Polycab India Ltd
Type of cable		A2XWaY
Voltage Grade V		1100
No of cores X size in sqmm		1 Core X 50 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)	0.641
c)	Shape of the conductor	Stranded Compacted Circular
Insulation		
a)	Material	XLPE as per IS 7098(Pt-1)/88, Latest
b)	Nominal thickness (mm)	1.3
c)	Core identification	Natural
Armouring		
a)	Material	Aluminium
b)	Type of armouring	Round Wire
c)	Nominal size of armour (mm)	1.4
d)	Tolerance on armour dimensions	± 0.040 mm
Outer Sheath		
a)	Material	Extruded 'PVC Type 'ST2' as per IS:5831
b)	Thickness (mm)	1.24 (Min.)
c)	Colour of sheath	Black
Electrical Parameters		
a)	Max. a.c. resistance of conductor at 90° C (ohm/km)	0.822
b)	Calculated Cable reactance (ohm/km)	0.109
c)	Impedance of cable (ohm/km)	0.829
d	Approx. Cable Capacitance (mfd/km)	0.49

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

CABLES

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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)	4.72
Continuous Current carrying capacities :-	
(a) In Ground at 30°C (A)	137
(b) In Air at 40°C (A)	145
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	16.5 ± 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)	1,500
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

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