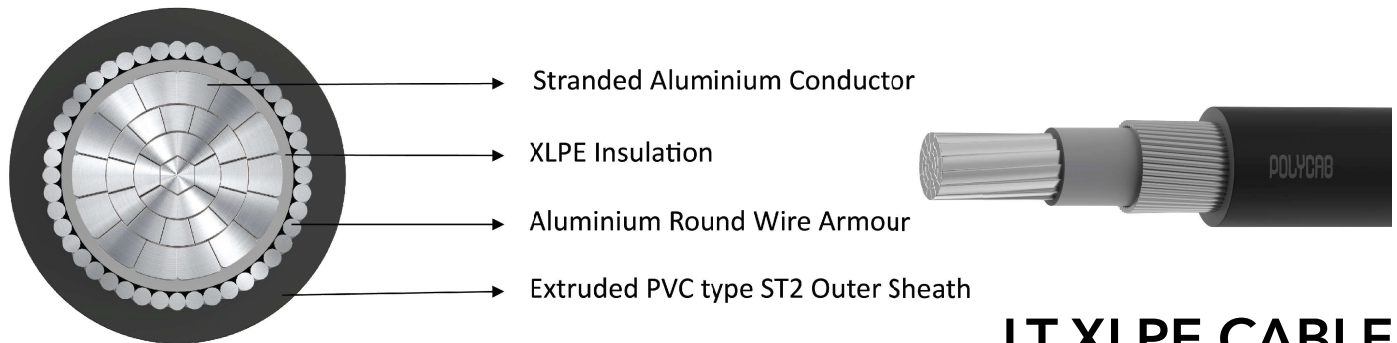




LT XLPE CABLE

Document ID: TE/QMS/F/02

DESIGN CODE : LVIS09AXAWY2001C070SA002S

Particulars		1 Core X 70 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 70 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)		0.443
c) Shape of the conductor		Stranded Compacted Circular
Insulation		
a) Material		XLPE as per IS 7098(Pt-1)/88, Latest
b) Nominal thickness (mm)		1.4
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)		0.568
b) Calculated Cable reactance (ohm/km)		0.101
c) Impedance of cable (ohm/km)		0.577
d) Approx. Cable Capacitance (mfd/km)		0.54

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)	6.61

Continuous Current carrying capacities :-

(a) In Ground at 30°C (A)	168
(b) In Air at 40°C (A)	185
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	18.0 ± 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)	2,100
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