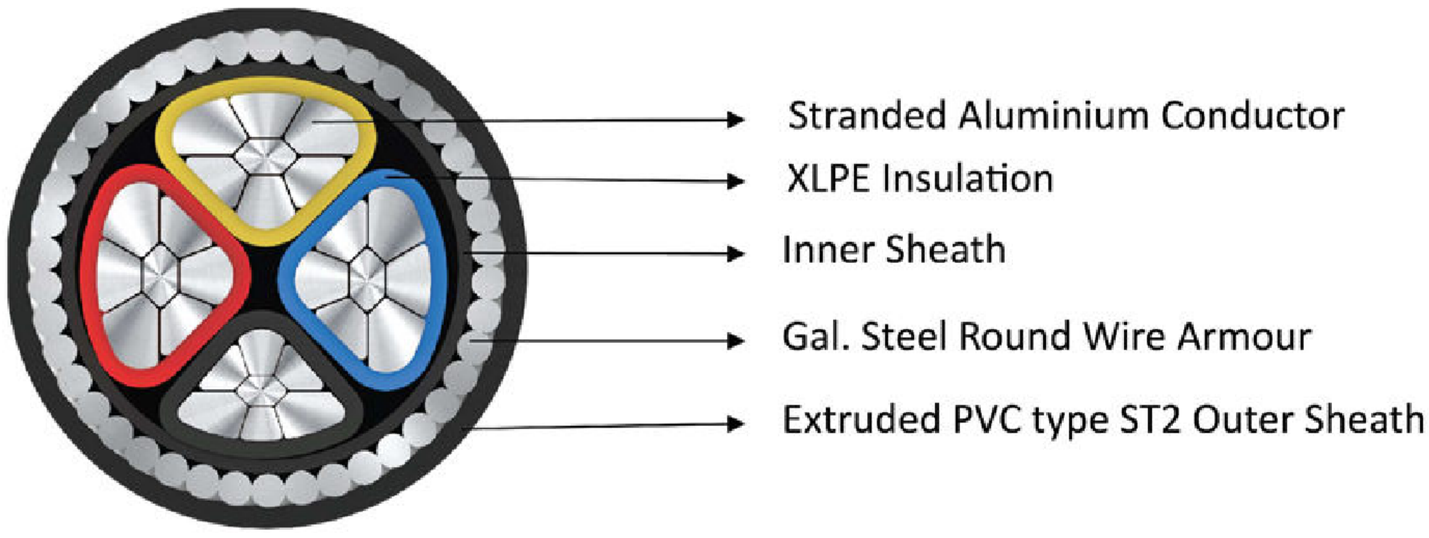
CABLES

POLYCAB





LT XLPE CABLE

TDS Doc.No:PIL/TE/250425/001472

DESIGN CODE : LVIS09AXSWY23.5C400SA001S

Particulars		3.5 Core X 400 Sq.m
Name of Manufacturer		Polycab India Ltd
Type of cable		A2XWY
Voltage Grade V		1100
No of cores X size in sqmm		3.5 Core X 400 Sq.m
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)	Main	0.0778
	Neutral	0.164
c) Shape of the conductor		Stranded Compacted Sector
Insulation		
a) Material		XLPE as per IS 7098(Pt-1)/88, Latest
b) Nominal thickness (mm)	Main	2.0
	Neutral	1.6
c) Core identification		Red,Yellow.Blue,Black
Inner Sheath		
a) Material		Extruded PVC Type ST2 as per IS:5831/84
b) Minimum thickness (mm)		0.7
Armouring		
a) Material		Galvanised Steel
b) Type of armouring		Round Wire
c) Nominal size of armour (mm)		3.15
d) Tolerance on armour dimensions		± 0.080 mm
Outer Sheath		
a) Material		Extruded PVC Type 'ST2' as per IS:5831
b) Thickness (mm)		2.68 (Min.)
c) Colour of sheath		Black
Electrical Parameters		
a) Max. a.c. resistance of conductor at 90° C (ohm/km)		0.102

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

b) Calculated Cable reactance (ohm/km)	0.0702
c) Impedance of cable (ohm/km)	0.124
d Approx. Cable Capacitance (mfd/km)	0.72
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)	37.79
Continuous Current carrying capacities :-	
(a) In Ground at 30°C (A)	420
(b) In Air at 40°C (A)	526
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	70.0 +/- 3.0
Minimum bending radius	12 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)	41,550
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