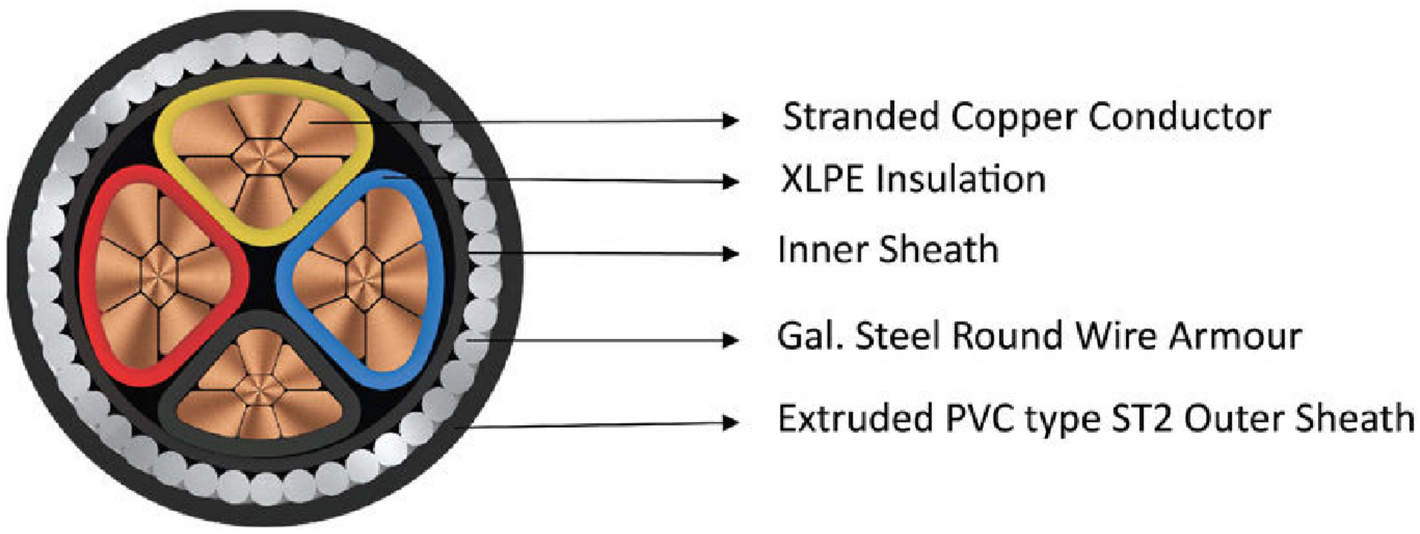
CABLES

POLYCAB





LT XLPE CABLE

TDS Doc.No:PIL/TE/250425/001005 **DESIGN CODE : LVIS09CXSWY23.5C150SA001S**

Particulars		3.5 Core X 150 Sq.mm
Name of Manufacturer		Polycab India Ltd
Type of cable		2XWY
Voltage Grade V		1100
No of cores X size in sqmm		3.5 Core X 150 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)	Main	0.124
	Neutral	0.268
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	1.4
	Neutral	1.1
c) Core identification		Red,Yellow,Blue,Black
Inner Sheath		
a) Material		Extruded PVC Type ST2 as per IS:5831/84
b) Minimum thickness (mm)		0.5
Armouring		
a) Material		Galvanised Steel
b) Type of armouring		Round Wire
c) Nominal size of armour (mm)		2
d) Tolerance on armour dimensions		± 0.050 mm
Outer Sheath		
a) Material		Extruded PVC Type 'ST2' as per IS:5831
b) Thickness (mm)		1.88 (Min.)
c) Colour of outer sheath.		Black
Electrical Parameters		
a) Max. a.c. resistance of conductor at 90° C (ohm/km)		0.160

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b) Calculated Cable reactance (ohm/km)	0.0718
c) Impedance of cable (ohm/km)	0.175
d Approx. Cable Capacitance (mfd/km)	0.64
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)	21.46
Continuous Current carrying capacities :-	
(a) In Ground at 30°C (A)	321
(b) In Air at 40°C (A)	365
Applicable Standard	IS 7098 Part I/88, IS 8130, IS 5831, IS 3975 etc. with latest up to date amendments
Approx. overall diameter of the cable in mm	44.5 ± 2.0
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)	26,000
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