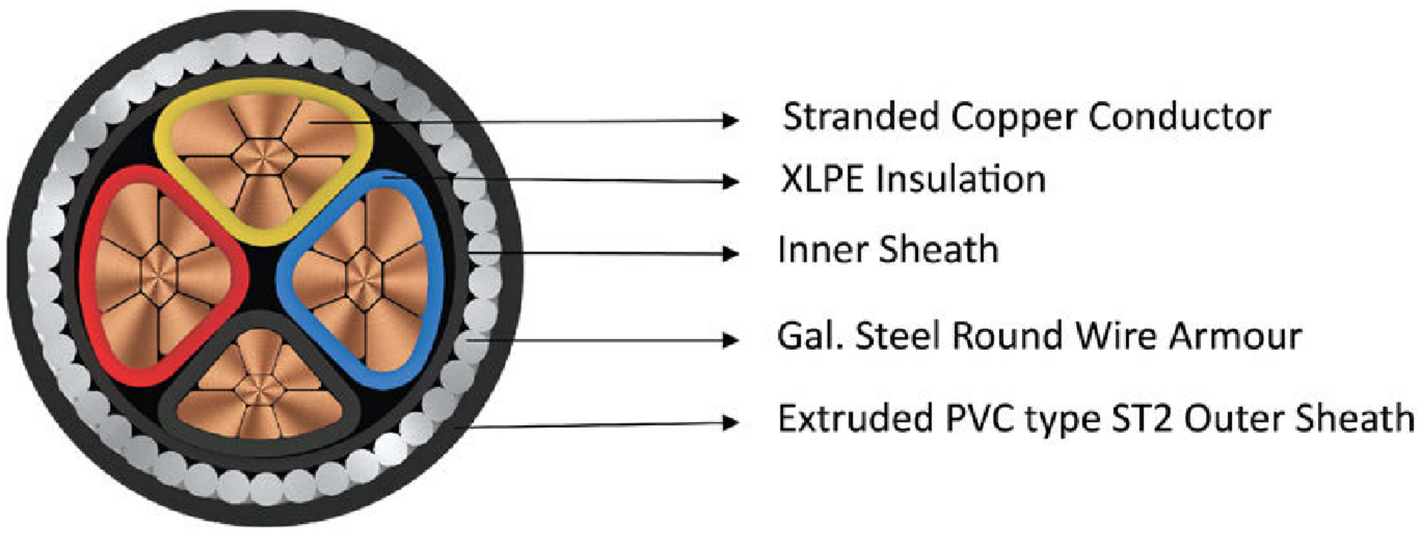
CABLES

POLYCAB





LT XLPE CABLE

TDS Doc.No:PIL/TE/250425/001248 **DESIGN CODE : LVIS09CXSWY23.5C240SA001S**

Particulars		3.5 Core X 240 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 240 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	0.0754
	Neutral	0.153
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	1.7
	Neutral	1.2
c)	Core identification	Red,Yellow,Blue,Black
Inner Sheath		
a)	Material	Extruded PVC Type ST2 as per IS:5831/84
b)	Minimum thickness (mm)	0.6
Armouring		
a)	Material	Galvanised Steel
b)	Type of armouring	Round Wire
c)	Nominal size of armour (mm)	2.5
d)	Tolerance on armour dimensions	± 0.065 mm
Outer Sheath		
a)	Material	Extruded PVC Type 'ST2' as per IS:5831
b)	Thickness (mm)	2.20 (Min.)
c)	Colour of outer sheath.	Black
Electrical Parameters		
a)	Max. a.c. resistance of conductor at 90° C (ohm/km)	0.0988

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b) Calculated Cable reactance (ohm/km)	0.0713
c) Impedance of cable (ohm/km)	0.122
d Approx. Cable Capacitance (mfd/km)	0.67
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)	34.34
Continuous Current carrying capacities :-	
(a) In Ground at 30°C (A)	418
(b) In Air at 40°C (A)	500
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	56.0 ± 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)	42,000
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