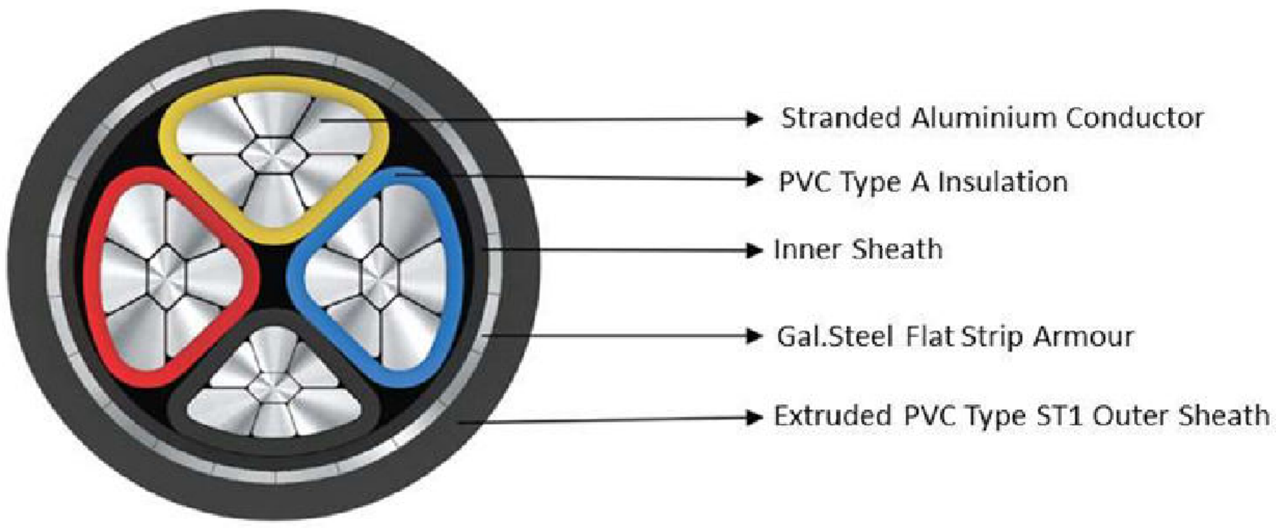
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CABLES





LT PVC CABLE

TDS Doc.No:PIL/TE/250425/000501 **DESIGN CODE : LVIS09AYSFY13.5C050SA001S**

Particulars		3.5 Core X 50 Sqmm
Name of Manufacturer		Polycab India Ltd
Type of cable		AYFY
Voltage Grade V		1100
No of cores X size in sqmm		3.5 X 50
Conductor		
a)	Material	H2/H4 Grade Aluminium as per Class 2 of IS: 8130/84,latest
b)	Max. d.c. resistance of conductor at 20° C (ohm/km) Main	0.641
	Neutral	1.2
c)	Shape of the conductor	Stranded Compacted Sector
Insulation		
a)	Material	PVC Type 'A' as per IS:5831, latest
b)	Nominal thickness (mm) Main	1.4
	Neutral	1.2
c)	Core identification	Red,Yellow,Blue,Black
Inner Sheath		
a)	Material	Extruded PVC Type ST1 to IS:5831/84
b)	Minimum thickness (mm)	0.3
Armouring		
a)	Material	Gal.Steel
b)	Type of armouring	Flat Strip
c)	Nominal size of armour (mm)	4.0 x 0.8
d)	Tolerance on armour dimensions	± 10%
Outer Sheath		
a)	Material	Extruded PVC Type ST1 to IS:5831/84
b)	Thickness (mm)	1.56 (Min.)
c)	Colour of outer sheath.	Black
Electrical Parameters		
a)	Max. a.c. resistance of conductor at 70°C (ohm/km)	0.770

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b)	Calculated Cable reactance (ohm/km)	0.0825
c)	Impedance of cable (ohm/km)	0.774
d	Approx. Cable Capacitance (mfd/km)	0.98
Maximum conductor temperature under normal operating conditions		70°C
Maximum conductor temperature at the termination of short circuit		160°C
Short Circuit rating of conductor for the duration of 1 sec (kA)		3.80
Continuous Current carrying capacities for stanc		
(a)	In Ground at 30°C (A)	111
(b)	In Air at 40°C (A)	104
Applicable Standard		IS 1554 Part I/88, IS 8130, IS 5831, IS 3975 etc. with latest up to date amendments
Approx. overall diameter of the cable in mm		29.5 ± 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)	5250
Embossing		POLYCAB ELECTRIC 1100 VOLTS GRADE
Printing		YEAR POLYCAB ELECTRIC 1100 VOLTS GRADE, CABLE SIZE, CABLE TYPE WITH SEQUENTIAL MARKING at every one meter interval.
Standard Drum Length (Mtr.)		1000 Mtr. ± 5%
Non Standard Drum Length		Max. 5% of order quantity & Min. 200 M

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