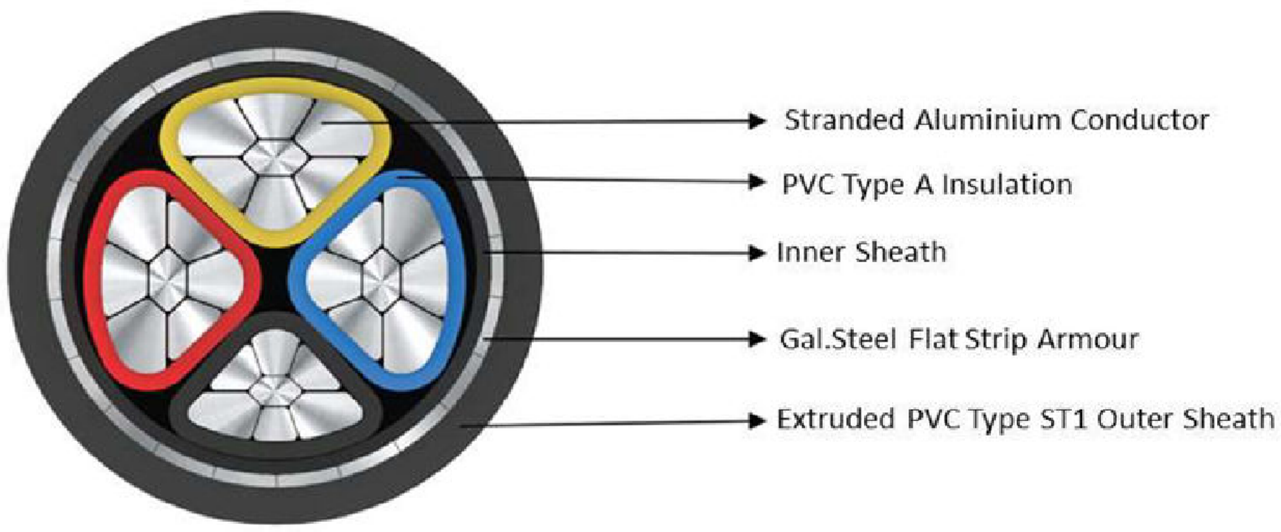
CABLES

POLYCAB





LT PVC CABLE

TDS Doc.No:PIL/TE/250425/000864

DESIGN CODE : LVIS09AYSFY13.5C120SA002S

Particulars		3.5 CoreX 120 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 120
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	0.253
	Neutral	0.443
c) Shape of the conductor		Stranded Compacted Sector
Insulation		
a) Material		PVC Type 'A' as per IS:5831, latest
b) Nominal thickness (mm)	Main	1.6
	Neutral	1.4
c) Core identification		Red,Yellow,Blue,Black
Inner Sheath		
a) Material		Wrapping of Tapes
b) Minimum thickness (mm)		0.5
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' as per IS:5831
b) Thickness (mm)		1.72 (Min.)
c) Colour of outer sheath.		Black

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

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Electrical Parameters		
a)	Max. a.c. resistance of conductor at 70°C (ohm/km)	0.305
b)	Calculated Cable reactance (ohm/km)	0.0744
c)	Impedance of cable (ohm/km)	0.314
d)	Approx. Cable Capacitance (mfd/km)	1.26
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)		9.12
Continuous Current carrying capacities		
(a)	In Ground at 30°C (A)	185
(b)	In Air at 40°C (A)	186
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		40.5 ± 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)	12,900
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.)		500 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

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