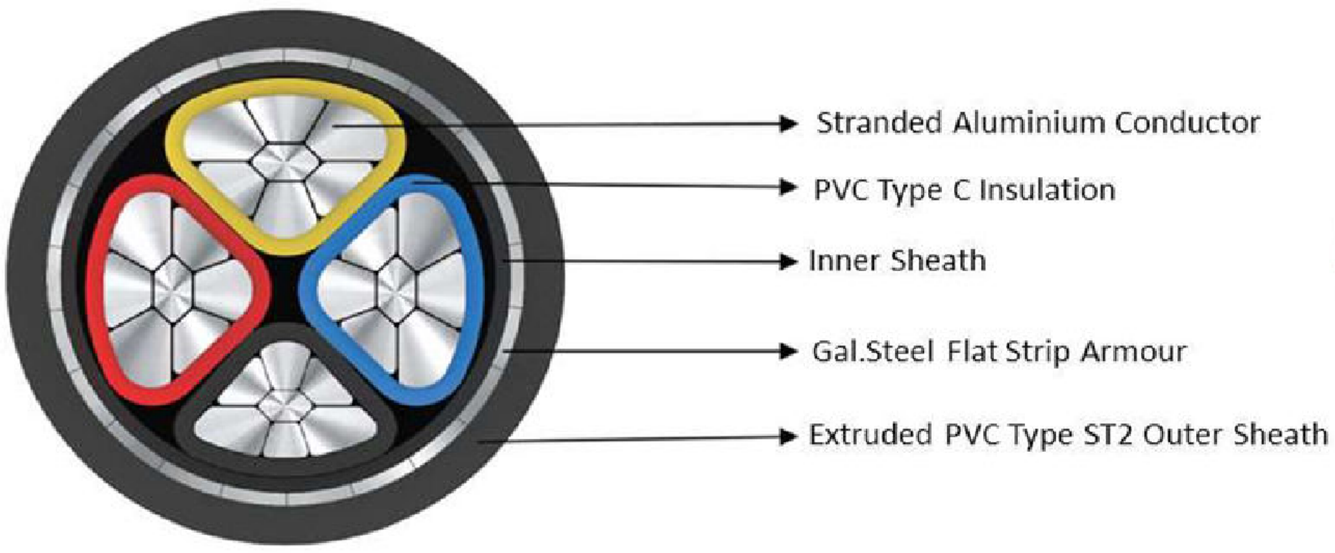
CABLES

POLYCAB





LT PVC CABLE

TDS Doc.No:PIL/TE/250425/001470

DESIGN CODE : LVIS09AYSFY23.5C400SA001S

Particulars		3.5 CoreX 400 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 400
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	0.0778
	Neutral	0.164
c) Shape of the conductor		Stranded Compacted Sector
Insulation		
a) Material		PVC Type 'C' as per IS:5831, latest
b) Nominal thickness (mm)	Main	2.6
	Neutral	2
c) Core identification		Red,Yellow,Blue,Black
Inner Sheath		
a) Material		Extruded PVC Type ST2 to IS:5831/84
b) Minimum thickness (mm)		0.7
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 ST2 to IS:5831/84
b) Thickness (mm)		2.68 (Min.)
c) Colour of outer sheath.		Black

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

CABLES

POLYCAB

Electrical Parameters		
a)	Max. a.c. resistance of conductor at 70°C (ohm/km)	0.101
b)	Calculated Cable reactance (ohm/km)	0.0727
c)	Impedance of cable (ohm/km)	0.124
d)	Approx. Cable Capacitance (mfd/km)	1.40
Maximum conductor temperature under normal operating conditions		85°C
Maximum conductor temperature at the termination of short circuit		160°C
Short Circuit rating of conductor for the duration of 1 sec (kA)		27.44
Continuous Current carrying capacities		
(a)	In Ground at 30°C (A)	397
(b)	In Air at 40°C (A)	468
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		69.0 ± 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
Printing		YEAR POLYCAB ELECTRIC 1100 VOLTS GRADE HR-85, 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

www.polycab.com | Toll Free No - 1800 267 0008 | Email: enquiry@polycab.com