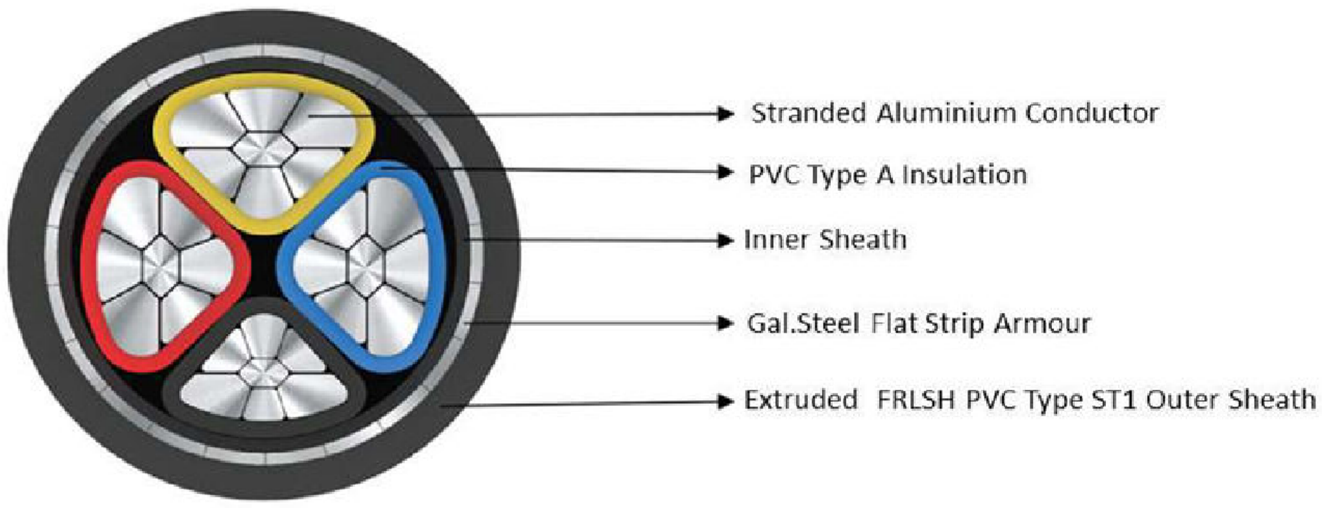
CABLES

POLYCAB





LT PVC CABLE

TDS Doc.No:PIL/TE/250425/000379

DESIGN CODE : LVIS09AYSFYL3.5C035SA001S

Particulars		3.5 Core X 35 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 35
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	0.868
	Neutral	1.91
c) Shape of the conductor		Stranded Compacted Sector
Insulation		
a) Material		PVC Type 'A' as per IS:5831, latest
b) Nominal thickness (mm)	Main	1.2
	Neutral	1
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 FR-LSH PVC Type ST1 to IS:5831/84
b) Thickness (mm)		1.40 (Min.)
c) Colour of outer sheath.		Black
Electrical Parameters		
a) Max. a.c. resistance of conductor at 70°C (ohm/km)		1.04

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b)	Calculated Cable reactance (ohm/km)	0.0827
c)	Impedance of cable (ohm/km)	1.04
d	Approx. Cable Capacitance (mfd/km)	0.96
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)		2.66
Continuous Current carrying capacities for stanc		
(a)	In Ground at 30°C (A)	94
(b)	In Air at 40°C (A)	85
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		26.0 ± 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)	3,630
Embossing		POLYCAB ELECTRIC 1100 VOLTS GRADE FR-LSH
Printing		YEAR POLYCAB ELECTRIC 1100 VOLTS GRADE FR-LSH, 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
FR-LSH PROPERTIES		
a)	Oxygen Index	Min. 29% as per ASTM D- 2863
b)	Temperature Index	Min. 250 Deg.C as per ASTM D- 2863
c)	Smoke Density Rating	Max. 60% as per ASTM D- 2843
d)	Acid Gas Generation	Max. 20% as per IEC- 754- 1
e)	Flammability Test	As per IEC:332-1

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