



LT PVC CABLE

TDS Doc.No:PIL/TE/250425/000740

DESIGN CODE : LVIS09AYSFY13.5C095SA001S

Particulars	3.5 Core X 95 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 95
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	0.32
Neutral	0.641
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	Extruded PVC Type ST1 to IS:5831/84
b) Minimum thickness (mm)	0.4
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)	0.385

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

b) Calculated Cable reactance (ohm/km)	0.0767
c) Impedance of cable (ohm/km)	0.393
d) Approx. Cable Capacitance (mfd/km)	1.16
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)	7.22
<b>Continuous Current carrying capacities for stanc</b>	
(a) In Ground at 30°C (A)	163
(b) In Air at 40°C (A)	162
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	37.5 ± 3.0
Minimum bending radius	12 times Overall diameter
Max. Tensile strength	
(i) for Cables pulled with stocking (Newtons)	9 x D <sup>2</sup> , D is the cable OD in mm
(ii) for Cables pulled with pulling eyes (N)	10,050
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