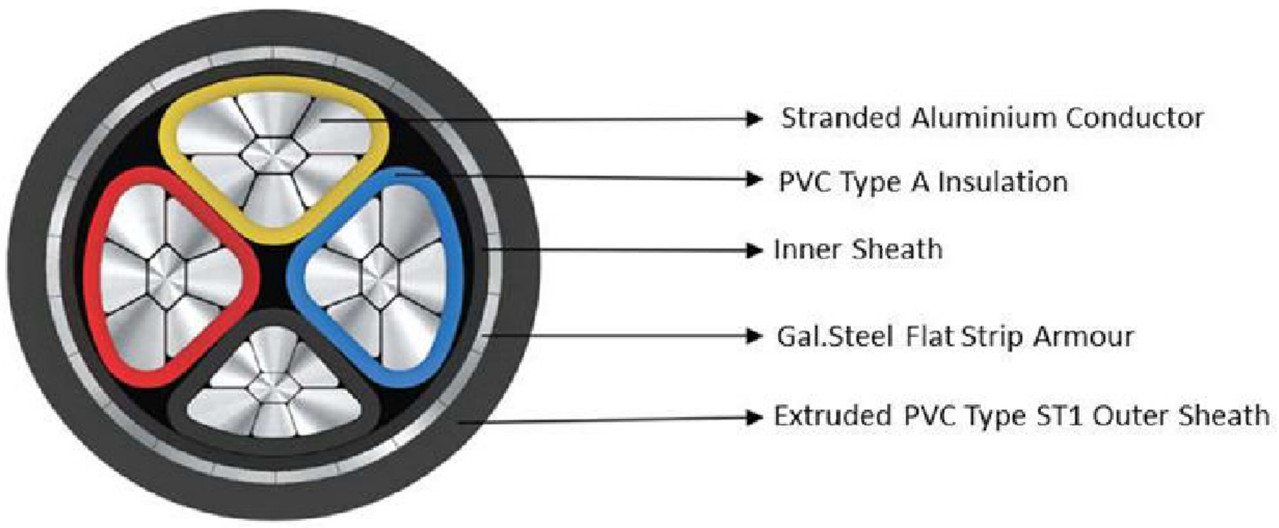
# CABLES

POLYCAB







## LT PVC CABLE

**TDS Doc.No:PIL/TE/250425/000260**

**DESIGN CODE : LVIS09AYSFY13.5C025SA001S**

| Particulars | | 3.5 Core X 25 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 25 |
| **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 | 1.2 |
| | 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 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) | 1.44 |

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| | | |
|---|---|---|
| b) | Calculated Cable reactance (ohm/km) | 0.0853 |
| c) | Impedance of cable (ohm/km) | 1.44 |
| d | Approx. Cable Capacitance (mfd/km) | 0.84 |
| 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) | | 1.9 |
| **Continuous Current carrying capacities for stanc** | | |
| (a) | In Ground at 30°C (A) | 78 |
| (b) | In Air at 40°C (A) | 70 |
| 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 | | 23.5 ± 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) | 2,730 |
| 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