



INSTRUMENTATION CABLE

TDS Doc.No:PIL/TE/250425/003279

CABLE CODE: ICIS04CYSWYL001P.75SA003S

| Particulars | 1 Pair X 0.75 sqmm |
|--|--|
| Name of Manufacturer | POLYCAB INDIA LTD |
| Type of Cable | Overall Screened |
| No of Elements X Size in mm ² | 1P X 0.75 |
| Voltage Grade (V) | 300/500 |
| Conductor | |
| Material | Plain Stranded Copper (Class-2) as per IS: 8130/2013 |
| Maximum D.C. resistance of conductor at 20° C (Ω/km) | 24.5 |
| Shape of conductor | Stranded Circular |
| Insulation | |
| Material | PVC Type A as per IS:5831 |
| Minimum Thickness mm | 0.44 |
| Pair/Triad identification | White & Blue |
| Collective Screen | |
| Material | Aluminium mylar tape |
| Nominal Thickness mm | 0.018 |
| Material of Drain Wire | Flexible ATC |
| Size of Drain Wire (Approx.) | 0.5 mm ² (16/0.2 mm) |
| Inner sheath | |
| Material | Extruded PVC Type ST1 to IS: 5831 |
| Minimum Thickness mm | 0.3 |
| Armouring | |
| Material | Galvanised Steel |
| Type of armouring | Round Wire |
| Nominal size of armour (mm) | 0.9 |

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

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Tolerance on armour dimensions ± 0.030 mm

Outer sheath

Material Extruded FR-LSH PVC Type ST1 to IS: 5831
 Thickness mm 1.24 (Min.)
 colour of sheath Blue

FR-LSH PROPERTIES

Oxygen Index Min. 29% as per ASTM D- 2863
 Temperature Index Min. 250 Deg.C as per ASTM D- 2863
 Smoke Density Rating Max. 60% as per ASTM D- 2843
 Acid Gas Generation Max. 20% as per IEC- 754- 1
 Flammability Test As per IEC:332-I
 Maximum conductor temperature under normal operating conditions °C 70
 Minimum bending radius 12 times Overall diameter

Electrical Parameters

Mutual capacitance nf/km <250
 Insulation resistance MΩ/km 10
 Inductance to resistance ratio (L/R) μH/Ω <25
 Dielectric strength for 1 minute (H.V Test) kV 2
 Max. tensile strength for Cables pulled with stocking (Newtons) $9 \times D^2$, D is the cable OD in mm
 Approximate Overall diameter of cable mm 10.5 ± 2.0
 Applicable Standard Generally, as per IS 1554 Part I/88 & BSEN 50288-7
 Standard Drum Length (Mtr.) $1000 \pm 5\%$
 Non-Standard Drum Length (Mtr.) Maximum 5% of order quantity
 Embossing POLYCAB 300/500 VOLTS GRADE FR-LSH
 Printing YEAR POLYCAB 300/500 VOLTS GRADE FR-LSH CABLE SIZE SCREENED with SEQUENTIAL LENGTH MARKING at EVERY ONE METER INTERVAL