





INSTRUMENTATION CABLE

Document ID: TE/QMS/F/02 CABLE CODE: ICIS04CYSWYL002P001SA001S

| B 10 1 | 22 · V4 |
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| Particulars | 2 Pair X 1 sqmm |
| Name of Manufacturer | POLYCAB INDIA LTD |
| Type of Cable | Overall Screened |
| No of Elements X Size in mm ² | 2P X 1 |
| Voltage Grade (V) | 300/500 |
| Conductor | |
| a) Material | Plain Stranded Copper (Class-2) as per IS: 8130/2013 |
| b) Maximum D.C. resistance of conductor at 20° C (Ω /km) | 18.5 |
| c) Shape of conductor | Stranded Circular |
| Insulation | |
| a) Material | PVC Type A as per IS:5831 |
| b) Minimum Thickness mm | 0.44 |
| c) Pair/Triad identification | White & Blue with numbered Polyester tape (OR) White & Blue with number printing on core |
| Collective Screen | |
| a) Material | Aluminium mylar tape |
| b) Nominal Thickness mm | 0.018 |
| c) Material of Drain Wire | Flexible ATC |
| d) Size of Drain Wire (Approx.) | 0.5 mm² (16/0.2 mm) |
| Inner sheath | |
| a) Material | Extruded PVC Type ST1 to IS: 5831 |
| b) Minimum Thickness mm | 0.3 |
| Armouring | |
| a) Material | Galvanised Steel |
| b) Type of armouring | Round Wire |
| c) Nominal size of armour (mm) | 0.9 |
| d) Tolerance on armour dimensions | ± 0.030 mm |
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Rev.No.:00 Issued Date:02/04/2018





Non-Standard Drum Length (Mtr.)

Embossing

Printing

Outer sheath a) Material Extruded FR-LSH PVC Type ST1 to IS: 5831 1.24 (Min.) b) Thickness mm Blue c) colour of sheath **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-I Maximum conductor temperature under 70 normal operating conditions °C Minimum bending radius 12 times Overall diameter **Electrical Parameters** a) Mutual capacitance nf/km <250 b) Insulation resistance MΩ/km 10 c) Inductance to resistance ratio (L/R) <25 μΗ/Ω d) Dielectric strength for 1 minute (H.V 2 Test) kV Max. tensile strength for Cables pulled with 9 x D2, D is the cable OD in mm stocking (Newtons) Approximate Overall diameter of cable mm 13.5 ± 2.0 Generally, as per IS 1554 Part I/88 & BSEN 50288-7 Applicable Standard $1000 \pm 5\%$ Standard Drum Length (Mtr.)

Maximum 5% of order quantity

ONE METER INTERVAL

POLYCAB 300/500 VOLTS GRADE FR-LSH

YEAR POLYCAB 300/500 VOLTS GRADE FR-LSH CABLE SIZE SCREENED with SEQUENTIAL LENGTH MARKING at EVERY

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