

CABLES





INSTRUMENTATION CABLE

Document ID: TE/QMS/F/02

Particulars

CABLE CODE: ICISO4CYSWYL002P.75SA002S

| Particulars 2 Pair A 0.75 Sqriiii | |
|--|---|
| Name of Manufacturer POLYCAB INDIA LTD | |
| Type of Cable Overall Screened | |
| No of Elements X Size in mm ² 2P X 0.75 | |
| 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) | |
| 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 num White & Blue with num | nbered Polyester tape (OR) nber 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 ST | 1 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 | |
| | |

2 Pair X 0.75 sqmm

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Outer sheath

a) Material Extruded FR-LSH PVC Type ST1 to IS: 5831

b) Thickness mm 1.24 (Min.)

c) Colour of sheath Blue

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

normal operating conditions °C

Minimum bending radius 12 times Overall diameter

Electrical Parameters

a) Mutual capacitance nf/km <250

b) Insulation resistance $M\Omega/km$ 10

c) Inductance to resistance ratio (L/R) $$_{\mu H/\Omega}$$ <25

d) Dielectric strength for 1 minute (H.V

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 ± 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

YEAR POLYCAB 300/500 VOLTS GRADE FR-LSH CABLE SIZE

Printing SCREENED with SEQUENTIAL LENGTH MARKING at EVERY ONE

70

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METER INTERVAL

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