



## INSTRUMENTATION CABLE

**CABLE CODE: ICIS04CYSFYL012P1.5SA003S**

**Document ID: TE/QMS/F/02**

### Particulars

Name of Manufacturer	POLYCAB INDIA LTD
Type of Cable	Overall Screened
No of Elements X Size in mm <sup>2</sup>	12P X 1.5
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)	12.3
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 mm <sup>2</sup> (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	Flat Strip
c) Nominal size of armour (mm)	4.0 x 0.8
d) Tolerance on armour dimensions	± 10%

### Outer sheath

a) Material	Extruded FR-LSH PVC Type ST1 to IS: 5831
b) Thickness mm	1.40 (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

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

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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	70
Minimum bending radius	12 times Overall diameter
<b>Electrical Parameters</b>	
a) Mutual capacitance nf/km	<250
b) Insulation resistance MΩ/km	10
c) Inductance to resistance ratio (L/R) μH/Ω	<40
d) Dielectric strength for 1 minute (H.V Test) kV	2
Max. tensile strength for Cables pulled with stocking (Newtons)	9 x D <sup>2</sup> , D is the cable OD in mm
Approximate Overall diameter of cable mm	24.0 ± 2.0
Applicable Standard	Generally, as per IS 1554 Part I/88 & BSEN 50288-7
Standard Drum Length (Mtr.)	1000 ± 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 EVERYONE METER INTERVAL