



## INSTRUMENTATION CABLE

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CABLE CODE: ICIS04CYSWYL004C1.5SA002S

Particulars	4 Core X 1.5 sq mm
Name of Manufacturer	POLYCAB INDIA LTD
Type of Cable	Overall Screened
No of Elements X Size in mm <sup>2</sup>	4C X 1.5
Voltage Grade (V)	300/500
<b>Conductor</b>	
a) Material	Plain Stranded Copper (Class-2) as per IS: 8130/2013
b) Maximum D.C. resistance of conductor at 20° C (Ω/km)	12.1
c) Shape of conductor	Stranded Circular
<b>Insulation</b>	
a) Material	PVC Type A as per IS:5831
b) Minimum Thickness mm	0.44
c) Pair/Triad identification	Red, Yellow, Blue & Black
<b>Collective Screen</b>	
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)
<b>Inner sheath</b>	
a) Material	Extruded PVC Type ST1 to IS: 5831
b) Minimum Thickness mm	0.3
<b>Armouring</b>	
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
<b>Outer sheath</b>	
a) Material	Extruded FR-LSH PVC Type ST1 to IS: 5831
b) Thickness mm	1.24 (Min.)
c) colour of sheath	Blue
<b>FR-LSH PROPERTIES</b>	
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

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

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Maximum conductor temperature under normal operating conditions °C	70
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) 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	12.5 ± 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 YEAR POLYCAB 300/500 VOLTS GRADE FR-LSH CABLE SIZE
Printing	SCREENED with SEQUENTIAL LENGTH MARKING at EVERY ONE METER INTERVAL