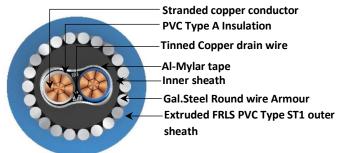


## **CABLES**





## **INSTRUMENTATION CABLE**

Document ID: TE/QMS/F/02 CABLE CODE: ICIS04CYSWYL001P2.5SA003S

Particulars	1 Pair X 2.5 sqsmm
Name of Manufacturer	POLYCAB INDIA LTD
Type of Cable	Overall Screened
No of Elements X Size in mm <sup>2</sup>	1P X 2.5
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 ( $\Omega$ /km)	7.41
Shape of conductor	Stranded Circular
Insulation	
Material	PVC Type A as per IS:5831
Minimum Thickness mm	0.53
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 <sup>2</sup> (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
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

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## **CABLES**

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

Minimum bending radius 12 times Overall diameter

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<b>Electrical Parameters</b>	
Mutual capacitance nf/km	<250
Insulation resistance $M\Omega/km$	10
Inductance to resistance ratio (L/R) $\mu H/\Omega$	<60
Dielectric strength for 1 minute (H.V Test) kV	2
Max. tensile strength for Cables pulled with stocking	ng (Newtons) 9 x D², D is the cable OD in mm
Approximate Overall diameter of cable mm	$12.5 \pm 2.0$
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

70

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