







INSTRUMENTATION CABLE

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Particulars

CABLE CODE: ICISO4CYSWYL003P0.5SA003S

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Name of Manufacturer	POLYCAB INDIA LTD			
Type of Cable	Overall Screened			
No of Elements X Size in mm ²	3P X 0.5			
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) 	36.7			
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 ² (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			
Outer sheath				

3 Pair X 0.5 sqmm

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Note: -The values given above are subject to tolerances as per the relevant standards. www.polycab.com | Toll Free No - 1800 267 0008 | Email: enquiry@polycab.com



CABLES

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

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) μ H/ Ω	<25
d)	Dielectric strength for 1 minute (H.V	2

Test) kV

Max. tensile strength for Cables pulled with

stocking (Newtons)

Approximate Overall diameter of cable mm

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 SCREENED with SEQUENTIAL LENGTH MARKING at EVERY Printing

 13 ± 2.0

ONE METER INTERVAL

9 x D², D is the cable OD in mm

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