

I	Technical Data of Instrumentation Cables	CABLE SIZE
II	CABLE CODE	ICIS04CYSWYL003P0.5SA003S
S.No	Particulars	3 Pair X 0.5 sq mm
1	Name of Manufacturer	POLYCAB INDIA LTD
2	Type of Cable	Overall Screened
3	No of Elements X Size in mm ²	3P X 0.5
4	Voltage Grade (V)	300/500
5	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
6	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
7	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)
8	Innersheath	
a)	Material	Extruded PVC Type ST1 to IS: 5831
b)	Minimum Thickness mm	0.3
9	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
10	Outersheath	
a)	Material	Extruded FR-LSH PVC Type ST1 to IS: 5831
b)	Thickness mm	1.24 (Min.)
c)	colour of sheath	Blue
11	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
12	Maximum conductor temperature under normal operating conditions °C	70
13	Minimum bending radius	12 times Overall diameter
14	Electrical Parameters	
a)	Mutual capacitance nf/km	<250
b)	Insulation resistance MΩ/km	10
c)	Inductance to resistance ratio (L/R) μH/Ω	<25
d)	Dielectric strength for 1 minute (H.V Test) kV	2.0
15	Max. tensile strength for Cables pulled with stocking (Newtons)	9 x D ² , D is the cable OD in mm
16	Approximate Overall diameter of cable mm	13 ± 2.0
17	Applicable Standard	Generally as per IS 1554 Part I/88 & BSEN 50288-7
18	Standard Drum Length (Mtr.)	1000 ± 5%
19	Non-Standard Drum Length (Mtr.)	Maximum 5% of order quantity
20	Embossing	POLYCAB 300/500 VOLTS GRADE FR-LSH
21	Printing	YEAR POLYCAB 300/500 VOLTS GRADE FR-LSH CABLE SIZE SCREENED with SEQUENTIAL LENGTH MARKING at EVERY ONE METER INTERVAL