

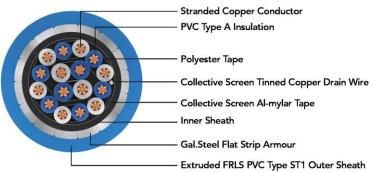


a) Material

b) Type of armouring

c) Nominal size of armour (mm)





INSTRUMENTATION CABLE

CABLE CODE: ICISO4CYSFYL012P001SA004S Document ID: TE/QMS/F/02 **Particulars** 12 Pair X 1 sqmm Name of Manufacturer POLYCAB INDIA LTD Type of Cable Overall Screened No of Elements X Size in mm² 12P X 1 Voltage Grade (V) 300/500 Conductor a) Material Plain Stranded Copper (Class-2) as per IS: 8130/2013 b) Maximum D.C. resistance of 18.5 conductor at 20° C (Ω/km) Stranded Circular c) Shape of conductor **Insulation** a) Material PVC Type A as per IS:5831 0.44 b) Minimum Thickness mm White & Blue with numbered Polyester tape (OR) c) Pair/Triad identification White & Blue with number printing on core **Collective Screen** a) Material Aluminium mylar tape 0.018 b) Nominal Thickness mm c) Material of Drain Wire Flexible ATC d) Size of Drain Wire (Approx.) 0.5 mm² (16/0.2 mm) Inner sheath a) Material Extruded PVC Type ST1 to IS: 5831 b) Minimum Thickness mm 0.3 Armouring

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Flat Strip

 4.0×0.8

Galvanised Steel





d) T	olerance on armour dimensions	± 10%
Outer sheath		
a) M	laterial	Extruded FR-LSH PVC Type ST1 to IS: 5831
b) T	hickness mm	1.40 (Min.)
c) C	olour of sheath	Blue
FR-LSH PROPERTIES		
a) C	Oxygen Index	Min. 29% as per ASTM D- 2863
b) T	emperature Index	Min. 250 Deg.C as per ASTM D- 2863
c) S	moke Density Rating	Max. 60% as per ASTM D- 2843
d) A	cid Gas Generation	Max. 20% as per IEC- 754- 1
e) F	lammability Test	As per IEC:332-I
Maximum conductor temperature under normal operating conditions °C		70
Minimum bending radius		12 times Overall diameter
Electrical Parameters		
a) M	lutual capacitance nf/km	<250
b) I	nsulation resistance MΩ/km	10
-	nductance to resistance ratio (L/R) H/Ω	<25
d) D	pielectric strength for 1 minute (H.V Test) kV	2
Max. tensile strength for Cables pulled with stocking (Newtons)		9 x D ² , D is the cable OD in mm
Approximate Overall diameter of cable mm		22 ± 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 EVERY ONE METER INTERVAL

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