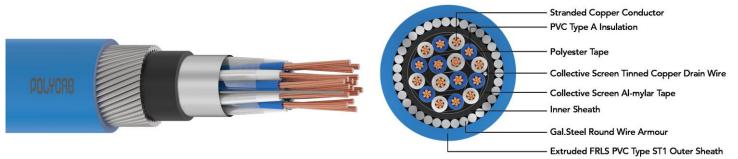


Document ID: TE/QMS/F/02

CABLES



INSTRUMENTATION CABLE

CABLE CODE: ICIS04CYSWYL004P0.5SA001S

Particulars 4 Pair X 0.5 sqmm Name of Manufacturer POLYCAB INDIA LTD Type of Cable **Overall Screened** No of Elements X Size in mm² 4P 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 36.7 conductor at 20° C (Ω/km) Stranded Circular c) Shape of conductor Insulation a) Material PVC Type A as per IS:5831 b) Minimum Thickness mm 0.44 White & Blue with numbered Polyester tape (OR) c) Pair/Triad identification White & Blue with number printing on core **Collective Screen** Aluminium mylar tape a) Material b) Nominal Thickness mm 0.018 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 0.3 b) Minimum Thickness mm 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**

Rev.No.:00

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

Issued Date:02/04/2018



CABLES

a) Material		Extruded FR-LSH PVC Type ST1 to IS: 5831
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 Ind	lex	Min. 250 Deg.C as per ASTM D- 2863
c) Smoke Density F	Rating	Max. 60% as per ASTM D- 2843
d) Acid Gas Genera	ation	Max. 20% as per IEC- 754- 1
e) Flammability Te	st	As per IEC:332-I
Maximum conductor temperature under normal operating conditions °C		70
Minimum bending radius		12 times Overall diameter
Electrical Parameters		
a) Mutual capacitan	ce nf/km	<250
b) Insulation resista	ince MΩ/km	10
 c) Inductance to res (L/R) μH/Ω 	sistance	<25
d) Dielectric strengt (H.V Test) kV	h for 1 minute	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		14 ± 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

Issued Date:02/04/2018