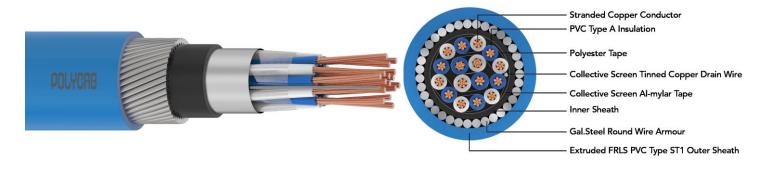


CABLES



INSTRUMENTATION CABLE

Document ID: TE/QMS/F/02

CABLE CODE: ICIS04CYSWYL004P.75SA002S

Particulars		4 Pair X 0.75sqmm	
Name of Manufacturer		POLYCAB INDIA LTD	
Type of Cable		Overall Screened	
No of Elements X Size in mm ²		4P X 0.75	
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)	25	
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 mm² (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	
Rev.No.:00 Issued Date:02/04/2018			

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

DOLYCAB Connection Zindagi Ka

CABLES

Outer sheath			
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 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 normal operating conditions °C		70	
Minimum bending radius		12 times Overall diameter	
Electrical Parameters			
a)	Mutual capacitance nf/km	<250	
b)	Insulation resistance $M\Omega/km$	10	
c)	Inductance to resistance ratio (L/R) μ H/ Ω	<25	
d)	Dielectric strength for 1 minute (H.V Test) kV	2	
Max. tensile strength for Cables pulled with stocking (Newtons)		$9 \times D^2$, D is the cable OD in mm	
Approximate Overall diameter of cable mm		14.5 ± 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	