







INSTRUMENTATION CABLE

Document ID: TE/QMS/F/02 CABLE CODE: ICIS04CYSWYL003P.75SA001S

Particulars	3 Pair X 0.75 sqmm
Name of Manufacturer	POLYCAB INDIA LTD
Type of Cable	Overall Screened
No of Elements X Size in mm ²	3P 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



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) $\mu H/\Omega$ <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 13.5 ± 2.0

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
Printing SCREENED with SEQUENTIAL LENGTH MARKING at EVERY

ONE METER INTERVAL

Rev.No.:00 Issued Date:02/04/2018