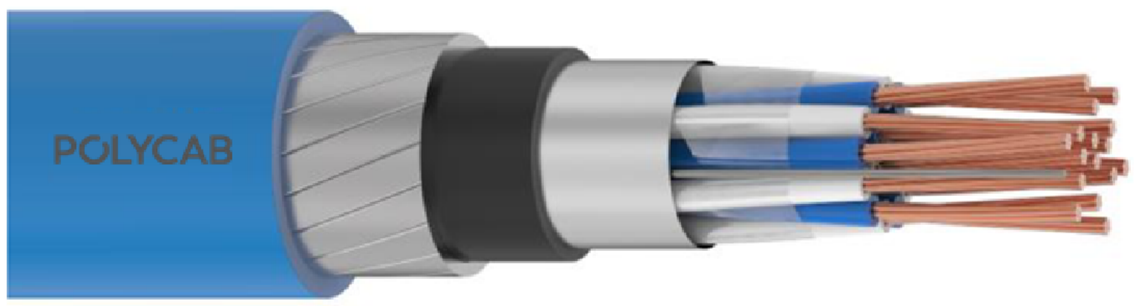
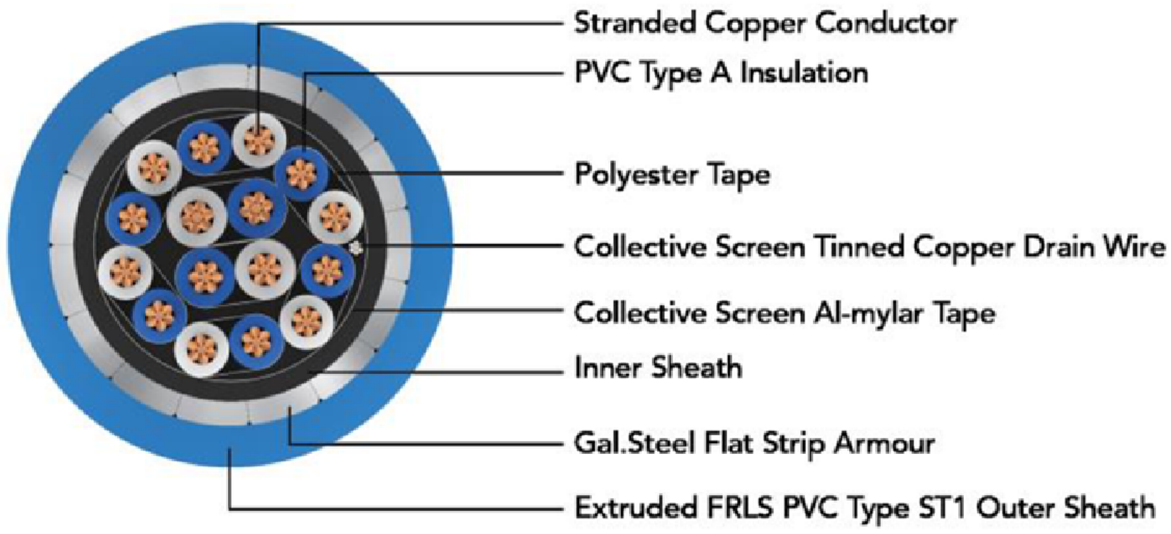
POLYCAB

CABLES





INSTRUMENTATION CABLE

TDS Doc.No:PIL/TE/250425/003808

CABLE CODE: ICIS04CYSFYL008P1.5SA002S

Particulars	8 Pair X 1.5 sqmm
Name of Manufacturer	POLYCAB INDIA LTD
Type of Cable	Overall Screened
No of Elements X Size in mm²	8P X 1.5
Voltage Grade (V)	300/500
Conductor	
a) Material	Plain Stranded Copper (Class-2) as per IS: 8130/2013
b) Maximum D.C. resistance of conductor at 20° C (Ω/km)	12.3
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	Flat Strip
c) Nominal size of armour (mm)	4.0 x 0.8
d) Tolerance on armour dimensions	± 10%
Outer sheath	
a) Material	Extruded FR-LSH PVC Type ST1 to IS: 5831
b) Thickness mm	1.40 (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

Format ID: TE/QMS/F/07, R-00, Date: 16/03/2025

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 MΩ/km	10
c) Inductance to resistance ratio (L/R) µH/Ω	<40
d) Dielectric 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	21 ± 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

Note:-The values given above are subject to tolerances as per the relevant standards