







INSTRUMENTATION CABLE

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Particulars	2 Core X 1 sqmm
Name of Manufacturer	POLYCAB INDIA LTD
Type of Cable	Overall Screened
No of Elements X Size in mm ²	2C 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 conductor at 20° C (Ω /km)	18.1
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	Red & Black
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
Outer sheath	
a) Material	Extruded FR-LSH PVC Type ST1 to IS: 5831

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b) Thickness mm 1.24 (Min.) c) colour of sheath Blue **FR-LSH PROPERTIES** Min. 29% as per ASTM D- 2863 a) Oxygen Index 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 70 normal operating conditions °C Minimum bending radius 12 times Overall diameter **Electrical Parameters** a) Mutual capacitance nf/km <250 10 b) Insulation resistance MΩ/km c) Inductance to resistance ratio (L/R) <25 Dielectric strength for 1 minute (H.V 2 Test) kV Max. tensile strength for Cables pulled with 9 x D², D is the cable OD in mm stocking (Newtons) Approximate Overall diameter of cable mm 10.5 ± 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 SCREENED with SEQUENTIAL LENGTH MARKING at EVERY Printing ONE METER INTERVAL

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