

# Instrumentation Cable



## Type 5. Multi-Core, Overall Shield

### Standard

BS EN 50288-7, HD 383, BS EN 50290, BS EN 50288-1

### Design

<b>Conductor</b>	Stranded (7 strands) Annealed Bare or Tinned Copper As per IS 8130
<b>Insulation</b>	PVC/ XLPE
<b>Color Code</b>	Grey or Black with number printing on each core
<b>Screening (Overall)</b>	Aluminum/ Mylar Tape + ATC Drain wire
<b>Inner Sheath</b>	PVC ST 2 As per BS EN 50290 (LSZH also available)
<b>Armouring (Optional)</b>	SWA / Steel Strip
<b>Outer Sheath</b>	PVC ST2 As per BS EN 50290 (LSZH also available)
<b>Outer Sheath Color</b>	Black (Other colors available on request)



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## Characteristics

<b>Voltage Rating</b>	250/ 500V
<b>Test Voltage</b>	1500V
<b>Temperature Rating</b>	Fixed: -20°C to +70°C Flexing: -5°C to +70°C
<b>Min. Bending Radius</b>	Fixed: 12 X OD Flexing: 20 X OD
<b>Flame Retardant</b>	IEC 60332-1 (Optional)
<b>Insulation Resistance (Min.)</b>	20 MΩ X km - XLPE 5 MΩ X km - PVC
<b>Mutual Capacitance (Max.)</b>	XLPE : Core to Core - 120 nF/ Km XLPE : Core to Screen - 250 nF/ Km PVC : Core to Core - 250 nF/ Km PVC : Core to Screen - 400 nF/ Km
<b>L/R Ratio</b>	Upto 1.0 sq.mm. : < 25 μH/Ω Upto 1.5 sq.mm. : < 40 μH/Ω Upto 2.5 sq.mm. : < 60 μH/Ω

## Application

For transmitting digital and analog signals in instrumentation and control systems.



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Part NO	Cores	Insulation Thickness (In mm)	Armour Size (In mm)	Overall Diameter (In mm)
0.5 sq.mm.				
UP090102W2	2	0.6	0.9	10.5
UP090103W2	3	0.6	0.9	11.5
UP090104W2	4	0.6	0.9	12.0
UP090106W2	6	0.6	0.9	13.0
UP090108W2	7	0.6	0.9	13.5
UP090110W2	10	0.6	0.9	15.0
UP090112W2	12	0.6	0.9	15.5
UP090114W2	14	0.6	0.9	16.0
UP090116W2	16	0.6	0.9	17.0
UP090118W2	19	0.6	0.9	18.0
UP090124F2	24	0.6	4 x 0.8	19.0
UP090137F2	37	0.6	4 x 0.8	22.0
0.75 sq.mm.				
UP092202W2	2	0.6	0.9	11.0
UP092203W2	3	0.6	0.9	12.0
UP092204W2	4	0.6	0.9	12.5
UP092206W2	6	0.6	0.9	13.5
UP092208W2	7	0.6	0.9	14.0
UP092210W2	10	0.6	0.9	15.5
UP092212W2	12	0.6	0.9	16.5
UP092214W2	14	0.6	0.9	17.0
UP092216W2	16	0.6	0.9	18.0
UP092218F2	19	0.6	4 x 0.8	19.0
UP092224F2	24	0.6	4 x 0.8	20.0
UP092236F2	37	0.6	4 x 0.8	23.0
1.0 sq.mm.				
UP090202W2	2	0.6	0.9	11.0
UP090203W2	3	0.6	0.9	12.5
UP090204W2	4	0.6	0.9	13.0
UP090206W2	6	0.6	0.9	14.0
UP090208W2	7	0.6	0.9	14.5
UP090210W2	10	0.6	0.9	16.0
UP090212F2	12	0.6	4 x 0.8	17.0
UP090214F2	14	0.6	4 x 0.8	17.5
UP090216F2	16	0.6	4 x 0.8	18.5



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UP090218F2	19	0.6	4 x 0.8	19.5
UP090224F2	24	0.6	4 x 0.8	20.5
UP090236F2	37	0.6	4 x 0.8	23.5
1.5 sq.mm.				
UP090302W2	2	0.6	0.9	11.5
UP090303W2	3	0.6	0.9	13.0
UP090304W2	4	0.6	0.9	13.5
UP090306W2	6	0.6	0.9	14.5
UP090308W2	7	0.6	0.9	15.0
UP090310W2	10	0.6	0.9	17.0
UP090312W2	12	0.6	0.9	18.0
UP090314F2	14	0.6	4 x 0.8	19.0
UP090316F2	16	0.6	4 x 0.8	19.5
UP090318F2	19	0.6	4 x 0.8	20.5
UP090324F2	24	0.6	4 x 0.8	22.5
UP090336F2	37	0.6	4 x 0.8	26.0
2.5 sq.mm.				
UP090402W2	2	0.6	0.9	12.5
UP090403W2	3	0.6	0.9	14.0
UP090404W2	4	0.6	0.9	14.5
UP090406W2	6	0.6	0.9	16.0
UP090408W2	7	0.6	0.9	17.0
UP090410F2	10	0.6	4 x 0.8	18.5
UP090412F2	12	0.6	4 x 0.8	19.5
UP090414F2	14	0.6	4 x 0.8	20.5
UP090416F2	16	0.6	4 x 0.8	21.5
UP090418F2	19	0.6	4 x 0.8	23.0
UP090424F2	24	0.6	4 x 0.8	25.0
UP090436F2	37	0.6	4 x 0.8	29.5

\* Table 5. Armoured Instrumentation cable - Multi core Overall Shielded

\* Cable also available in FRLS & ZHLS sheathing. Replace 2 by S or H respectively at the end of Part No.

\* For Tinned Copper configuration add TC at the end of the Part Number