

Instrumentation Cable



Type 4. Multi-Triad, Overall Shield

Standard

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

Design

Conductor	Stranded (7 strands) Annealed Bare or Tinned Copper As per IS 8130
Insulation	PVC/ XLPE
Color Code	Black - White - Red With number printing on one core of each pair
Stranding	Three cores twisted together to form a pair
Screening (Overall)	Aluminum/ Mylar Tape + ATC Drain wire
Inner Sheath	PVC ST 2 As per BS EN 50290 (LSZH also available)
Armouring (Optional)	SWA / Steel Strip
Outer Sheath	PVC ST2 As per BS EN 50290 (LSZH also available)
Outer Sheath Color	Black (Other colors available on request)



Instrumentation Cable

Characteristics

Voltage Rating	250/ 500V
Test Voltage	1500V
Temperature Rating	Fixed: -20°C to +70°C Flexing: -5°C to +70°C
Min. Bending Radius	Fixed: 12 X OD Flexing: 20 X OD
Flame Retardant	IEC 60332-1 (Optional)
Insulation Resistance (Min.)	20 MΩ X km - XLPE 5 MΩ X km - PVC
Mutual Capacitance (Max.)	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
L/R Ratio	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.



Instrumentation Cable

Part NO	Triad	Insulation Thickness (In mm)	Armour Size (In mm)	Overall Diameter (In mm)
0.5 sq.mm.				
UP210101W2	1	0.44	0.9	10.2
UP210102W2	2	0.44	0.9	12.6
UP210103W2	3	0.44	0.9	13.1
UP210104W2	4	0.44	0.9	14.0
UP210106W2	6	0.44	0.9	15.9
UP210108W2	8	0.44	0.9	17.4
UP210110W2	10	0.44	0.9	19.3
UP210112W2	12	0.44	0.9	19.8
UP210114W2	14	0.44	1.25	21.4
UP210116W2	16	0.44	1.25	22.6
UP210118W2	18	0.44	1.25	23.4
UP210124W2	24	0.44	1.25	26.7
UP210136W2	36	0.44	1.25	30.0
0.75 sq.mm.				
UP212201W2	1	0.44	0.9	10.6
UP212202W2	2	0.44	0.9	13.3
UP212203W2	3	0.44	0.9	13.9
UP212204W2	4	0.44	0.9	14.8
UP212206W2	6	0.44	0.9	17.0
UP212208W2	8	0.44	0.9	18.7
UP212210W2	10	0.44	1.25	21.5
UP212212W2	12	0.44	1.25	22.0
UP212214W2	14	0.44	1.25	23.0
UP212216W2	16	0.44	1.25	24.0
UP212218W2	18	0.44	1.25	25.0
UP212224W2	24	0.44	1.25	38.8
UP212236W2	36	0.44	1.6	33.0
1.0 sq.mm.				
UP210201W2	1	0.44	0.9	11.0
UP210202W2	2	0.44	0.9	13.8
UP210203W2	3	0.44	0.9	14.5
UP210204W2	4	0.44	0.9	15.6
UP210206W2	6	0.44	0.9	17.9
UP210208W2	8	0.44	1.25	19.6
UP210210W2	10	0.44	1.25	22.6



Instrumentation Cable

UP210212W2	12	0.44	1.25	23.2
UP210214W2	14	0.44	1.25	24.3
UP210216W2	16	0.44	1.25	25.4
UP210218W2	18	0.44	1.25	26.6
UP210224W2	24	0.44	1.6	30.6
UP210236W2	36	0.44	1.6	35.3
1.5 sq.mm.				
UP210301W2	1	0.44	0.9	11.7
UP210302W2	2	0.44	0.9	14.9
UP210303W2	3	0.44	0.9	15.7
UP210304W2	4	0.44	0.9	16.8
UP210306W2	6	0.44	1.25	19.5
UP210308W2	8	0.44	1.25	22.2
UP210310W2	10	0.44	1.25	24.7
UP210312W2	12	0.44	1.25	25.4
UP210314W2	14	0.44	1.25	26.7
UP210316W2	16	0.44	1.25	27.9
UP210318W2	18	0.44	1.25	29.2
UP210324W2	24	0.44	1.6	34.5
UP210336W2	36	0.44	1.6	39.1
2.5 sq.mm.				
UP210401W2	1	0.53	0.9	13.0
UP210402W2	2	0.53	0.9	16.7
UP210403W2	3	0.53	0.9	17.7
UP210404W2	4	0.53	0.9	19.1
UP210406W2	6	0.53	1.25	23.1
UP210408W2	8	0.53	1.25	25.6
UP210410W2	10	0.53	1.25	28.6
UP210412W2	12	0.53	1.25	29.4
UP210414W2	14	0.53	1.6	30.8
UP210416W2	16	0.53	1.6	33.1
UP210418W2	18	0.53	1.6	34.7
UP210424W2	24	0.53	1.6	40.3
UP210436W2	36	0.53	1.6	45.7

* Table 4. Armoured Instrumentation cable - 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