



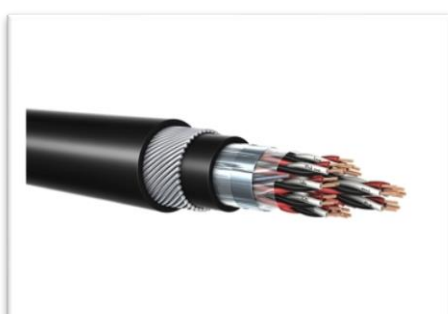
Wires, Cables & Cords

Instrumentation Cables

ELECTRIFYING YOUR FUTURE



Deltacab Instrumentation cables offer total interference free data transfer in measuring, process-control and security systems. These cables are mainly used for process instrumentation. Instrumentation cables play a vital role in measurement, supervision and control of the process in various projects related to power generation and distribution, automation industry, chemical and fertilizer industries and various other types of engineering industries. Instrumentation process in any industry is a vital one since it is involved in controlling various parameters in the process. Deltacab believes in careful designing and manufacturing of the cables with stringent quality control measure since microprocessor-based control devices demand very low noise level and attenuation of signals in the cable.



Applications:

Instrumentation cables are utilized in process plants for communication of instruments with each other. They can be screened, laid up in pairs, armoured etc. They can be insulated in PVC, PE, HRFR, FRLS and sheathed in PVC, PE, HRFR, FRLS according to customer's requirement.

Construction	: Cores, Pairs, Triads or Quads
Voltage Grade	: Up to 1100 V
Conductor	: Electrolytic grade copper Bare / Tinned Solid / Stranded / Flexible Conductors
Range	: 0.5 / 0.75 / 1.0 / 1.5 / 2.5 Sq mm up to 48 Pair
Primary Insulation	: General purpose PVC / Heat Resistant PVC / LDPE
Screening	: Individual and/or overall with following options. <ul style="list-style-type: none">- Aluminum Mylar / Copper Tape with Tinned Copper Drain Wire or- Braided with Bare or Tinned or Nickel Plated or Silver Plated Copper
Inner Sheath	: PVC / HRPVC / FRPVC / FRLS PVC / ZHFR / LSF
Armouring	: GI Round Wire / Flat Strip or Wire Braiding
Outer Sheath	: PVC / HRPVC / FRPVC / FRLS PVC / ZHFR / LSF
Rip Cord	: For easy removal of sheath

General parameters for Instrumentation Cables

Parameter	Unit	Conductor Area				
		0.50sqm m	0.75sqm m	1.00sqm m	1.50sqm m	2.50sqm m
Maximum D.C. Resistance of bare Copper conductor at 20 Degree Celsius	Ω/km	39.7	26.5	18.5	12.3	7.56
Maximum D.C. Resistance of tinned Copper conductor at 20 Degree Celsius	Ω/km	40.5	27.0	18.9	12.5	7.7
Maximum D.C. Resistance of 0.50 sqmm ATC Drain Wire at 20 Degree Celsius	Ω/km	30	30	30	30	30
Maximum Mutual Capacitance core to core (PVC Insulated)	nF/km	250	250	250	250	250
Maximum Mutual Capacitance core to core (PE Insulated)	nF/km	115	115	115	115	115
L/R Ratio	μH/oh m	25	25	30	40	70
Electrostatic Noise Rejection Ratio as per IEEE Vol3 (minimum)	dB	76	76	76	76	76
Minimum Insulation Thickness	mm	0.5	0.5	0.5	0.5	0.5
Minimum Insulation Resistance at 27 Degree Celsius (PVC Insulated) at 500 V	MΩ/km	10	10	10	10	10
Minimum Insulation Resistance at 27 Degree Celsius (PE Insulated) at 500 V	MΩ/km	100	100	100	100	100