



THERMOCOUPLE EXTENSION AND COMPENSATING CABLES



Thermocouple Extension and Compensating Cables are used for connecting thermocouples to control and measurement devices (pyrometers etc.) that may be some distance away from each other in control rooms. Conforming to standard specifications such as IS: 8784, ANSI MC 96.1, DIN 43714, 43, ENI-0163, BS 4937 (Part IIIX).

Configuration

Single or Multiple Pairs, usually upto 24 pairs. Higher pairs on customer request.

Conductor

As per Cable Codes KX, KK (A), JX, TX, EX, SX/RX, BX. 16, 18 & 20 AWG, other conductor sizes on request.

Insulation

PVC or HR PVC.

Screening

Individual or overall Aluminium Mylar tape screened with ATC Drain wire.

Ripcord

For easy removal of sheath.

Armouring

GI, Round Wire or Flat Strips.

Inner and Outer Sheath

PVC, PVC HR, PVC FRLS or PVC FR.



MULTIPAIR, STRANDED ANNEALED COPPER CONDUCTOR, PVC INSULATED, OVERALL/ INDIVIDUALLY & OVERALL SHIELDED WITH ALUMINIUM MYLAR TAPE ALONG WITH TINNED COPPER DRAIN WIRE, PVC SHEATHED CABLE.

No. of Pairs	No. & Diameter of Wires	Insulation Thickness (Nom.) mm	Nominal Overall Diameter		Approx. Weight		Min. Installed bending radius	
			Overall shielded mm	Individual & Overall Shielded mm	Overall shielded Kg./Km.	Individual & Overall Shielded Kg./Km.	Overall shielded mm.	Individual & Overall Shielded mm.
2	7/0.3	0.35	7.0	8.7	65	90	70	90
4	7/0.3	0.35	10.0	10.9	110	135	100	110
6	7/0.3	0.35	10.9	13.0	140	200	110	130
8	7/0.3	0.35	12.4	14.9	180	245	125	150
10	7/0.3	0.35	13.6	16.3	215	295	140	160
12	7/0.3	0.35	14.9	17.9	315	350	150	180
16	7/0.3	0.35	17.0	20.4	330	450	170	210
20	7/0.3	0.35	18.7	22.6	390	555	190	230
24	7/0.3	0.35	20.4	24.7	465	670	210	250
36	7/0.3	0.35	24.7	29.9	680	960	250	300
50	7/0.3	0.35	29.1	35.5	905	1330	300	350

GENERAL ELECTRICAL CHARACTERISTICS

Particulars	Value	Units
Conductor resistance @ 20°C	< 39.0	Ohms/Km.
Insulation resistance @ 20°C	> 100.0	M Ohms/Km.
Max. working voltage	600	VDC
Capacitance of pairs	< 150	nt/Km.
Inductance @ 1 KHz	< 1.0	mH/Km.
L/R Ratio	< 25	H/Ohms
Cross talk between pairs at 1. KHz	<100	dB/100 mtr.

Data for other sizes can be provided on request.

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ISO 9001 & 14001 Certified

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