

THERMOCOUPLE EXTENSION TYPE UNARMOURED/WIRE ARMoured, UNSHIELDED/OVERALL /INDIVIDUAL SHIELDED



- Application** : Can be used for instrumentation /process control in chemical and petrochemical industries and are required to transfer reference junction to the control room.
- Specification** : As per ANSI MC 96.1

	CONSTRUCTION	TECHNICAL DATA	
Conductor	Solid type of J (Iron/Constantan), K(Chromel/Alumel), T(Copper/Constantan) E(Chromel/Constantan), Type S&R(Copper/Alloy#11) as per spec. ANSI MC 96.1 in 16AWG(1.29mm) for single pair & 20AWG(0.81mm) for multi pair cables	Temperature range. EX type JX type KXtype TXtype	-18 to 204 Degree. C - 18 to 204 Degree. C - 18 to 204 Degree. C - 59 to 93 Degree. C
Insulation	PVC Type T11 as per BS:7655. Thickness shall be 0.38 mm Min.	Working voltage	300/500 Volts
Colour code	EX type: Chromel(+)-Purple & Constantan(-)-Red JX type: Iron(+)-White & Constantan(-)-Red KX type: Chromel(+)-Yellow & Alumel(-)-Red TX type Copper(+)-Blue & Constantan(-)-Red	Minimum bending radius	12 X cable diameter
Pair shield (In case of individual shielded cables)	Each twisted pair shielded with aluminium polyester tape and a stranded tinned copper drain wire of size 0.5 mm ² for maximum electrostatic noise and cross talk rejection. All pair shields are electrically isolated from each other.	Conductor Loop resistance at 20°C -	Refer spec. ANSI MC 96.1
Overall shield (In case of Ind. & Overall shielded as well as Overall shielded cables)	Individually shielded pairs are cabled with non-hygroscopic fillers if necessary, and the entire assembly is shielded with aluminium polyester tape and a stranded tinned copper drain wire of size 0.5 mm ² .	R.M.S. test voltage: Core to core & Core to screen	1000 V rmsfor 1 minute.
Bedding (In case of armoured cables)	Extruded Black PVC Type TM1 of BS:7655.	Inductance (Max.)	0.9 Micro Henry/Km.
Wire Armour (In case of Armoured cables)	A serving of round galvanized steel wires as per BS:1442, is applied with 90% minimum coverage.	Thermal EMF test	As per ANSI MC 96.1
Sheath	Extruded PVC Type TM1 of BS:7655. The colour of the sheath shall be PURPLE, BLACK, YELLOW & BLUE respectively for Type EX, JX, KX & TX cable.	Mutual Capacitance Core to Core Core to Screen	250 nF/Km. Max. 450nF/Km. Max.
Printing Legend	INSTRUMENTATION CABLE SHIELDED # PRX Area of cross section Type of conductor 300/500 V DELTON YEAR	Min. Insulation Resistance	100 Meg Ohms/Km.

PACKING : In Wooden Drums of 500/1000 Meters.

- NOTE:-**
- ❑ Sheath material shall be FR/FRLS/ZERO HALOGEN compound as per customer's request.
 - ❑ As an alternate armoured cable shall be supplied with flat strip/ Double Steel Tape/ Wire Braided as per customer requirement.
 - ❑ Higher pair count cables shall also be supplied Upto maximum overall diameter of 70mm .
 - ❑ The given picture of the product may differ to its actual in construction/colour.