





MINERAL INSULATED THERMOCOUPLE



Thermocouples with magnesium oxide insulation are recommended where the thermocouple is immersed in liquids, high moisture, corrosive gases, or high pressure. The thermocouple can be formed to reach otherwise inaccessible areas. The magnesium oxide has a high dielectric strength, responds quickly to temperature changes, and is very durable.

APPLICATIONS

PRODUCT FEATURES

Immersion in liquids	Wider Temperature Range up to 1100 °C
High Moistures Applications	Can be easily bent, flattened or twisted
Corrosive Gases, Oils & Petrochemical Industries	SS Sheathing coupled with tightened magnesia ensure longer life
Power, Steel & Sponge Iron	High Die Electric Strength
Temperature Measurement in Chemical Reactors	 Thermal Accuracy as per ANSI MC 96.1 & ASTM E230
General Industrial Applications	Faster Response

PRODUCT TECHNICAL SPECIFICTIONS		
Element	J (Fe / Const) 0 °C - 760 °C K (Chromel / Alumel) -200 °C - 1260 °C T (Copper / Const) -250 °C - 350 °C E (Chromel / Const) -200 °C - 900 °C N (Nicrosil / Nisil) -270 °C - 1300 °C	
No. of Element	Simplex / Duplex	
Junction	Grounded / Ungrounded	
Insulation	Tightly Packed Magnesia (MgO) powder in Metal Tubes	
Sheath OD	1.5 / 3 / 4.5 / 6 / 8 mm or other on request	
Sheath Length	Up to 20000 mm	
Sheath Material	SS 316 / 310 / INCONEL 600 and some other on specific request	
Mounting	Fixed Threaded, Adj. Ferrule fittings, Flanged, Nipple Union Nipple etc.	
Termination	Seal Pot with flying leads Seal Pot with Male Female Connectors Ceramic Terminal Block with SS Base Plate Ceramic Terminal Block with Nickel Plated Brass Terminal & Optional spring loaded Terminal SS Base Plate with flying leads for Temperature Transmitter	
Enclosure	Weatherproof & Explosion Proof Head with Double Entry & Single Entry Cable Entry of Alu. Die Cast & Stainless Steel	
Optional Accessories	Thermo well for external sensor protection, Head mounted transmitter etc. & Extension Wire	

Thermocoupole can be custom configured & designed depending upon its environmnetal condtions & its demanding applications within the above TECHNICAL CONSTURCTIONAL SPECIFICATIONS



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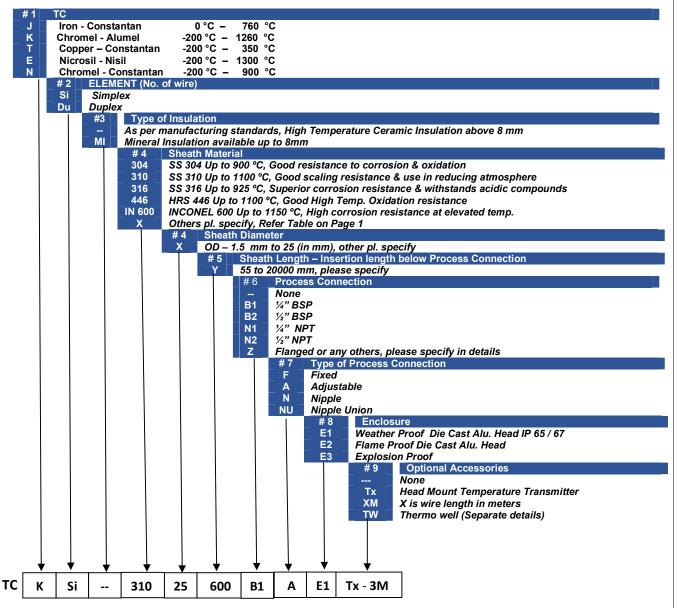
Tel.: +91 281 2480400 URL: www.thermocouplewire.co.in E-mail: eltecin@gmail.com | | | | sales@thermocouplewire.co.in |







THERMOCOUPLE with CONNECTION HEAD ORDERING CODE



TC K Si 310 25 x 600 B1 A E1 T - 3M

Thermocouple K Type Duplex, Sheath: SS 310, OD: 8 mm, Legth: 2000 mm, ½ "BSP Adjustable Connection, Weatherproof Enclosure with Head Mount Temperature Transmitter & 3 Meter wire length

- For Simplex Thermocouple, standard enclosure offered is single cable entry Alu. Die Cast Head
- For Duplex Thermocouple, standard enclosure offered is double cable entry Alu. Die Cast Head
- Other enclosure with different colors, size & types are available on request



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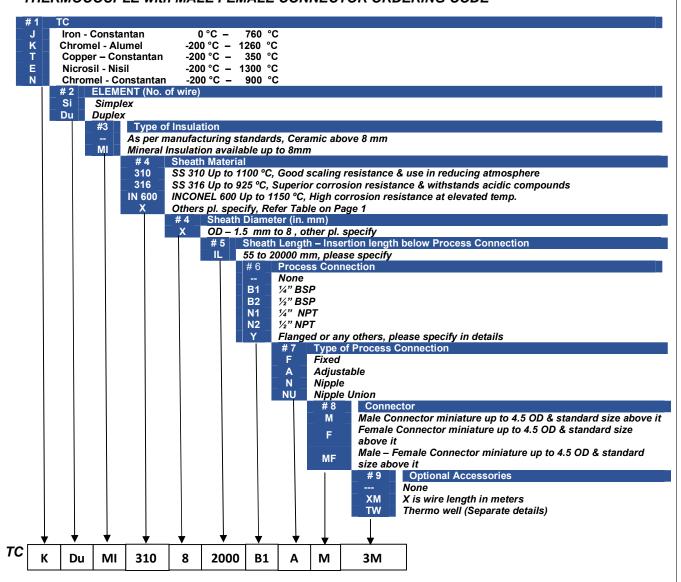
Tel.: +91 281 2480400 URL: www.thermocouplewire.co.in E-mail: eltecin@gmail.com | I | sales@thermocouplewire.co.in







THERMOCOUPLE with MALE FEMALE CONNECTOR ORDERING CODE



TC K Du MI 310 8 x 1000 B1 A M T - 3M

Thermocouple K Type Duplex, Sheath: SS 310, OD: 8 mm, Legth: 2000 mm, ½ "BSP Adjustable Connection, with Male Connector with 3 meter wire

- Upto 4.5 mm OD sensor, connecotor offered is miniature size i.e. jack & plug with flat pin, temp. Up to 180 °C
- Above 4.5mm OD sensor, connector offered is standard size i.e. jack & plug with round pin temp. Up to 180 °C
- Connector offered as per ANSI MC 96.1 color code unless and other wise specified for any other standards
- High Temperature Ceramic Connector up to 650 °C are available on request.
- Any speical type connector like flanged, round etc. are also availabe on request



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