

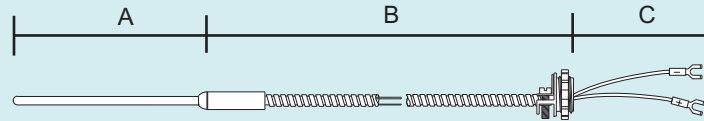


# Mineral Insulated Thermocouples and RTD's

Mineral Insulated Thermocouples and RTDs are known for their excellent mechanical durability and resistance to electrical breakdown. Available in outside diameters from 0.020 inch (0.5mm) to 0.500 inch (12.7mm), Mineral Insulated Thermocouples can be bent to most any angle without special equipment. Because of its flexibility, the mineral insulated material can be made to extremely long lengths, coiled for inexpensive shipment, and straightened upon arrival without damage.

Ungrounded and exposed junctions are electronically isolated from the sheath. Minimum resistance is 1.5 megohms at 500 VDC.

Due to the varying sized of connection wire and cable, a transition fitting is used between the cold end of the sheath and the connecting wires. This fitting measures 1-1/4" long by 1/4" outside diameter for 1/8" or smaller sheaths, and 1-1/2" long by 3/8" outside diameter for 3/16" and 1/4" sheaths. Larger sheaths are usually connected to bushings or connector heads, and usually do not require transition fittings. Sheaths terminating in connectors other than wire or cable do not require transition fittings.



## Mineral Insulated Transitions



Basic Sheath Configuration



Sheath and Transition Fitting  
(when made with Flex Hose)



Sheath and Transition Fitting  
(when made with SS Overbraid Wire)



Sheath and Transition Fitting  
(when made with Fiberglass Wire)

Temperature

## Model Coding

Fill in the appropriate numbers or letters to specify the probe of your choice. Fill in all boxes. If an item or dimension does not apply, fill those boxes with zeros '0'.

<p><b>8</b> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> - <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> - <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> - <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> - <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> - <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> - <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> - <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/></p>	<p>A in 1/10 inch</p>	<p>AA in 1/10 inch</p>	<p>B in inches</p>	<p>C in inches</p>		
<p><b>SENSOR TYPE</b>          J (T/C)          K (T/C)          E (T/C)          T (T/C)          6 (RTD DIN)          4 (RTD NIST)          Z (1K RTD DIN)          5 (RTD DIN 2-Wire)          7 (RTD DIN 1K 2-Wire)</p>	<p><b>EXTENSION TYPE</b>          0 - No extension          1 - Fiberglass Insulation          3 - Stainless Steel Overbraid          4 - FEP Insulation          5 - SS Flex Hose          6 - FEP over SS Flex Hose</p>	<p><b>SENSOR TERMINALS</b>          0 - Stripped Ends          1 - Lugs          2 - Lugs with BX          3 - Standard Plug          4 - Standard Jack          5 - Open Terminals          6 - Mini Plug          7 - Mini Jack          8 - Snap Cover, Al Head          9 - Fastabs          A - Fastabs with BX          B - Snap Cover, Plastic Head          C - 3/4 NPT Hex Threaded End          D - 3/4 NPT Hex Nipple          E - Screw Cover, Al Head w/ 3/4 NPT Conduit          F - Screw Cover, Plastic Head w/ 3/4 NPT Conduit          G - SS Weatherproof Head w/ 1/2 NPT Conduit          H - 1/2 NPT Hex Nipple</p>	<p><b>ELEMENTS</b>          1 - Single          2 - Dual</p>	<p><b>JUNCTION TYPE</b>          1 - Grounded          2 - Ungrounded          3 - Exposed</p>	<p><b>SENSOR O.D.</b>          1 - 1/16"          2 - 1/8"          3 - 3/16"          4 - 1/4"          5 - 3/8"          6 - 1/2"</p>	<p><b>BEND</b>          1 - None          2 - 45°          3 - 90°</p>
<p><b>HARDWARE TYPE</b>          1 - 304 SS Sheath          2 - 316 SS Sheath          3 - Inconel® 600 Sheath          4 - Inconel® 601 Sheath</p>						

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