



## MEAS MICRO-THERMOCOUPLES

- Welded or soldered
- Encapsulated or bare
- Bifilar construction
- Moisture seal (encapsulated only)
- Flexible tip
- High volume, low cost
- Custom packaging

Our Micro-Thermocouples (MTC) are flexible fine gage thermocouples used whenever fast, accurate temperature measurements are required. The thermocouple consists of two dissimilar metals, joined together at one end. A small voltage is produced by the two metals, which can be measured and interpreted by a control system. The dissimilar metals are individually insulated, and an overcoat is present to maintain an intimate bifilar configuration.

### Features

- Junction Types:
  - » Welded, Soldered
- Joint Encapsulation Types:
  - » Polymer Encapsulated, Bare
- Thermocouple Gauges:
  - » 44 AWG, 40 AWG, 38 AWG, 36 AWG
- Wire Insulation
  - » Polyesterimide, Polyimide

### Applications

- Medical



Individual Packaging on Spools

**Dimensions**

**Model 600** Soldered, Non-Insulated Junction



**Model 601** Welded, Non-Insulated Junction



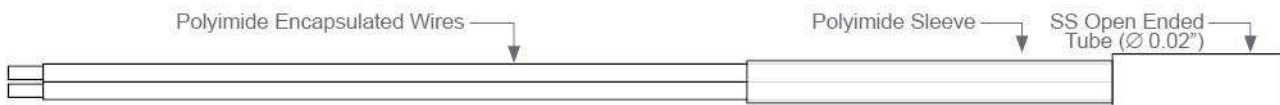
**Model 605** Soldered, Insulated Junction



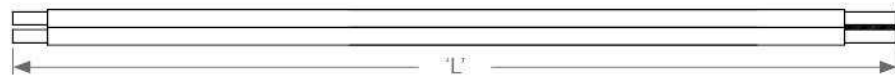
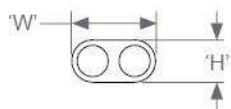
**Model 606** Soldered Welded, Insulated Junction



**Model 602** Welded Junction, Hypo Tube



**Model 607** Soldered Junction, Polyimide Tube



### Performance Specifications

**Wire Strip Length (Tail):** 0.50"  $\pm$  0.25"

**Solder Joint Length:** 0.10" Max.

**Encapsulation Length:** 0.25" Max.

**Encapsulation Profile:**

0.010" Max. for 44 AWG

0.013" Max. for 40 AWG

0.015" Max. for 38 AWG

0.017" Max. for 36 AWG

**Wire length tolerance:**  $\pm$  3.0"

**Packaging:** Sensors wrapped on white plastic spools

**Note:**

Specifications listed above are standard.

Other options are available upon request. Consult factory for details.

#### Commonly Stocked Wire

Type	AWG	Insulation Type	Insulation Color	Limits of Error
T	40	Polyesterimide	Green/Red	Special
T	40	Polyesterimide	Gold/Red	Special
T	44	Polyesterimide	Green/Red	Special
T	44	Polyesterimide	Black/Red	Special
T	36	Polyesterimide	Green/Red	Special
K	40	Polyimide	Amber/Black	Special