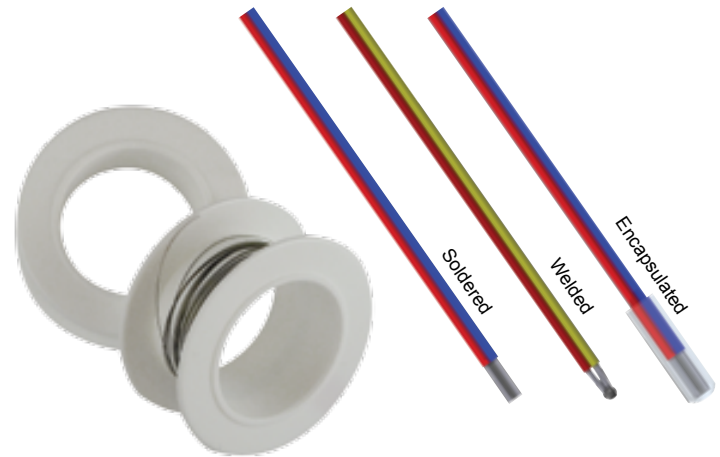


Micro-Thermocouples

Welded or Soldered
Insulated or Non-Insulated
Bifilar Construction
Moisture Seal
Flexible Tip
High Volume, Low Cost
Custom Packaging



Our **Micro-Thermocouples** 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 thermocouple thermometer. 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 Types:
 - » T, K
- Thermocouple Gauges:
 - » 44 AWG, 40 AWG, 38 AWG, 36 AWG
- Wire Insulation:
 - » Polyesterimide, Polyimide

APPLICATIONS

- Medical

Bulk Packaging



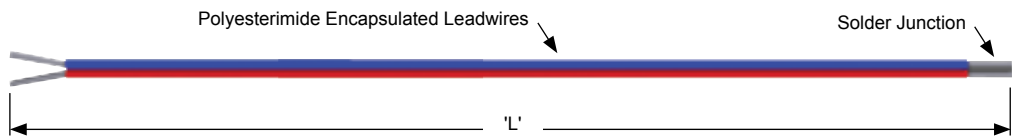
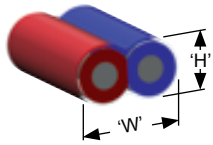
Individual Packaging



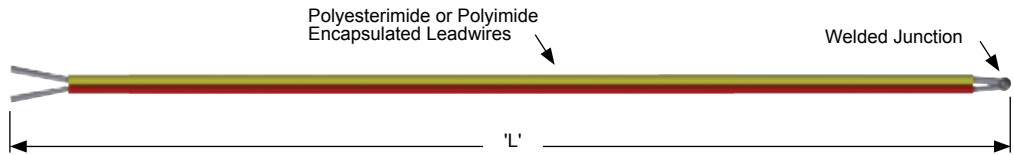
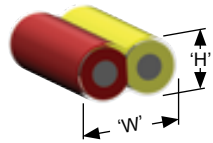
Micro-Thermocouples

dimensions

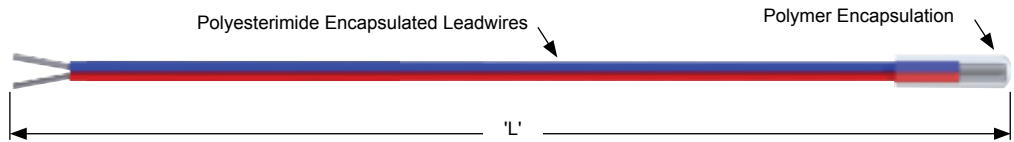
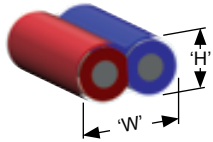
Soldered Junction, Non-Insulated



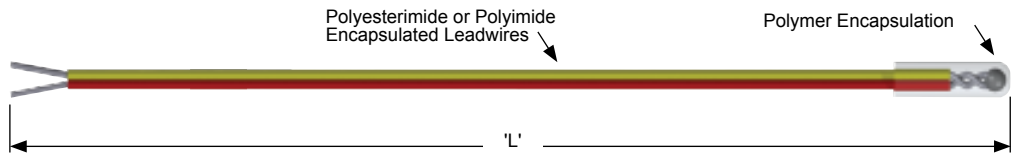
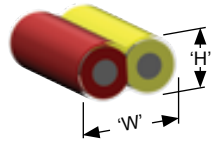
Welded Junction, Non-Insulated



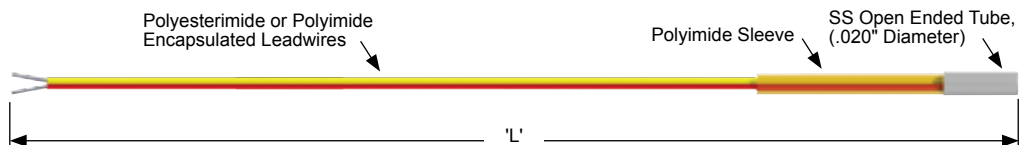
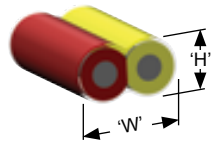
Soldered Junction, Insulated



Welded Junction, Insulated



Welded Junction, Hypo Tube



Micro-Thermocouples

performance specifications

Wire Strip Length (Tail): 0.50" ± 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; 0.017" Max. for 36 AWG

Wire length tolerance: ± 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	44	Polyesterimide	Green/Red	Special
T	44	Polyesterimide	Black/Red	Special
T	36	Polyesterimide	Green/Red	Standard

The information in this sheet has been carefully reviewed and is believed to be accurate; however, no responsibility is assumed for inaccuracies. Furthermore, this information does not convey to the purchaser of such devices any license under the patent rights to the manufacturer. Measurement Specialties, Inc. reserves the right to make changes without further notice to any product herein. Measurement Specialties, Inc. makes no warranty, representation or guarantee regarding the suitability of its product for any particular purpose, nor does Measurement Specialties, Inc. assume any liability arising out of the application or use of any product or circuit and specifically disclaims any and all liability, including without limitation consequential or incidental damages. Typical parameters can and do vary in different applications. All operating parameters must be validated for each customer application by customer's technical experts. Measurement Specialties, Inc. does not convey any license under its patent rights nor the rights of others.

ordering info

Micro-Thermocouples					
Model	Junction Type	Junction Insulation	Profile	Common	Notes
600	Soldered (Lead Free)	Non-Insulated (Bare)	Low Profile (Flat)	Yes	Model Type T Only.
601	Welded	Non-Insulated (Bare)	Round Profile	Yes	---
605	Soldered (Lead Free)	Insulated	Low Profile (Flat)	Yes	Model Type T Only. Encapsulation Rated to 200°C.
606	Welded	Insulated	Round Profile	Yes	Encapsulation Rated to 200°C.
602	Welded	Insulated	Round Profile	No	Junction Epoxy Potted in SS Hypo Tube. Rated to 140°C.
Model	Thermocouple Type	Stocked Wire Gauges	Special Order Gauges	Common	
T	T [Constantan/Copper]	40 AWG, 44 AWG	38 AWG, 36 AWG	Yes	
K	K [Alumel/Chromel]	40 AWG	44 AWG, 38 AWG, 36 AWG	Yes	
Model	Thermocouple Gauge	Bare Conductor Diameter	Bifilar Insulated Wire Profile	Common	
44	44 AWG	0.002"	0.0030" x 0.0060" (H x W) Max.	Yes	
40	40 AWG	0.003"	0.0041" x 0.0081" (H x W) Max.	Yes	
38	38 AWG	0.004"	0.0052" x 0.0104" (H x W) Max.	No	
36	36 AWG	0.005"	0.0065" x 0.0128" (H x W) Max.	No	
Model	Wire Insulation Type	Max. Temp		Common	
PE	Polyesterimide	180°C	Nylon Bondcoat	Yes	
PI	Polyimide	240°C	Nylon Bondcoat	No	
Model	Wire Length 'Y'				
---	Define 'Y' length in inches (120 = 120.0")				
Model	Limits of Error	Limits for Type T	Limits for Type K / J	Common	
ST	Standard	± 1.0°C	± 2.2°C	Yes	
SP	Special	± 0.5°C	± 1.1°C	Yes	
C	Custom	Consult Factory	Consult Factory	No	