

Variety of Configurations  
Single and Dual Junction  
Stainless Steel Case

Custom Designs Available with:

- Degree Specific Case Bends
- Connector Options



The **Thermocouple Probe–Compression Fitting** is constructed with a Stainless Steel case. The sensing junction is embedded into the tip of the sheath. With the junction located in the tip of the case this is the area that needs to be in contact with the process to obtain correct temperature measurement. Fittings associated with the probe designs are related to the mounting technique required by your application. These sensors can be utilized in many different industries and applications. Probe sensors are ideal for immersion in processes.

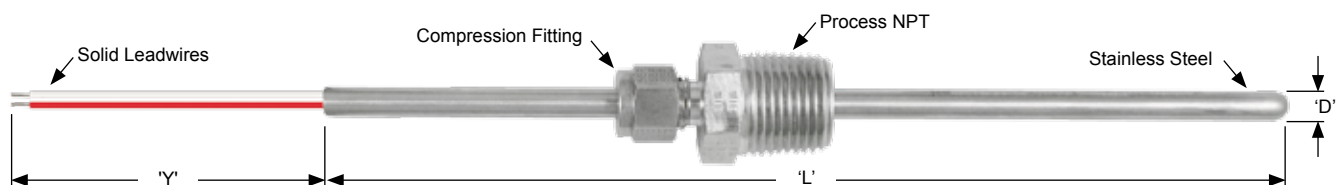
## FEATURES

- Sheath Styles:
  - » Stainless Steel
- Junction Types, Single and Dual:
  - » J, K, T, E
  - » Grounded or Ungrounded
- Sheath Diameters:
  - » 0.125", 0.188", 0.250"
- Leadwire/Cable Options

## APPLICATIONS

- Process

## dimensions



'D' = Sheath Diameter  
'L' = Sheath Length  
'Y' = Leadwire/Cable Length

# Thermocouple Probe– Compression Fitting

## performance specifications

### Insulation Resistance – Ungrounded Models:

1,000 megohms @ 500 V, leads to case

### Vibration:

Withstands 5 to 500 Hz at 3 g-level peak for 3 hours. Per ASTM E 644, Sec. 10.

### Shock:

Withstands 50 g-level peak sine wave shock of 11 milliseconds duration. Per ASTM E 644, Sec. 11

### Pressure Rating:

1,500 psi

### Thermocouple Temperature Accuracy Specifications:

Type	Temp Range	Standard Limits of Error	Special Limits of Error
T	-200 to 0°C	±1°C or 1.5%	Not ASTM Defined
	0 to 350°C	±1°C or 0.75%	±0.5°C or 0.4%
J	0 to 750°C	±2.2°C or 0.75%	±1.1°C or 0.4%
E	-200 to 0°C	±1.7°C or 1%	Not ASTM Defined
	0 to 900°C	±1.7°C or 0.5%	±1°C or 0.4%
K	-200 to 0°C	±2.2°C or 2%	Not ASTM Defined
	0 to 1,250°C	±2.2°C or 0.75%	±1.1°C or 0.4%

## ordering info

### Thermocouple Probe–Compression Fitting

#### Model Temperature Range

201M Moderate: -50 to 250°C (-58 to 482°F)

201H High: Mineral Insulated

#### Model Thermocouple Type

Model	Thermocouple Type	Element	Color Code
J	J	Single	Red/White [Constantan/Iron]
K	K	Single	Red/Yellow [Alumel/Chromel]
T	T	Single	Red/Blue [Constantan/Copper]
E	E	Single	Red/Purple [Constantan/Chromel]
JJ	JJ	Dual	Red/White // Red/White
KK	KK	Dual	Red/Yellow // Red/Yellow
TT	TT	Dual	Red/Blue // Red/Blue
EE	EE	Dual	Red/Purple // Red/Purple

#### Model Junction Style

A Grounded Junction  
B Ungrounded Junction

#### Model Limits of Error

A Standard Limits of Error  
B Special Limits of Error

#### Model 'D' Sheath Diameter

A .125" Diameter (Single Junction Only) (1/8" or 1/4" NPT Only)  
B .188" Diameter (1/8" or 1/4" NPT Only)  
C .250" Diameter

#### Model Sheath Material

B Stainless Steel  
E Inconel (H Only)

#### Model Fitting Thread Size

1 1/8" NPT  
2 1/4" NPT  
3 3/8" NPT  
4 1/2" NPT  
5 3/4" NPT

#### Model Compression Fitting Material

A 316 SS (TFE Ferrule Included)  
B 316 SS (SS Ferrule Included)  
C Brass (Brass Ferrule Included)

#### Model 'L' Sheath Length

--- Define 'L' Length in Inches (12 = 12.0") Note: Minimum 1.5" / Maximum 36.0"

#### Model 'Y' Leadwire/Cable Options

N No Options, Stranded TFE Leadwires (36.0" Standard)  
W Leadwire Options

## 联系方式



深圳市亿为测控电子有限公司  
Shenzhen Bill-Well Measurement & Control Electronics Co., Ltd.

广东省深圳市南山区创业路怡海广场东座2407 邮编：518000

电话：+86 755 2641 9890 传真：+86 755 2641 9680

电子邮箱：sales@bill-well.com