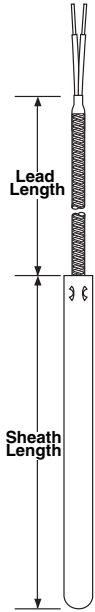


# Thermocouples

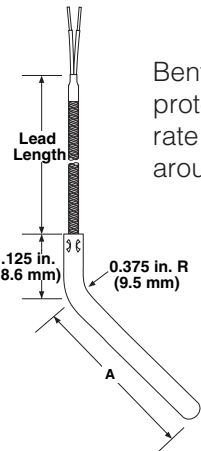
## General Applications

### Rigid Sheath

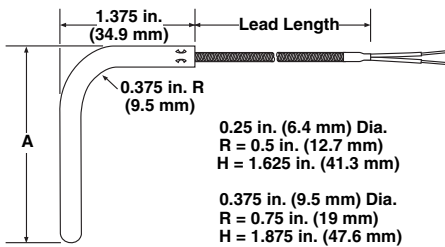
**1/8 and 3/16 inch Diameter**



Rigid sheath provides protection and accurate placement through bulkheads or platens. Use with a compression fitting for water tight immersion application.



Bent rigid tube offers protection and accurate lead placement around machinery.



\*Not available with 1/8 inch diameter sheath.

Metric sizes available for made-to-order units, consult factory. Minimum order quantity may apply.

### Rapid Ship Sensors

Rapid Ship sensors come with 3/16 inch diameter sheath, 24 gauge stranded fiberglass lead with stainless steel overbraid, grounded junction and split lead termination.

Calibration	Sheath Length in. (mm)	Lead Length in. (mm)	Part Number
J	1 (25)	48 (1219)	20DJSGB048A
		96 (2438)	20DJSGB096A
	2 (51)	48 (1219)	20DJSGD048A
		96 (2438)	20DJSGD096A
	4 (102)	48 (1219)	20DJSGH048A
		96 (2438)	20DJSGH096A

**Custom Ordering Information**—Items in **Bolded Green Type** are preferred with shorter lead times.

1 2 3 4 5 6 7 8 9 10 11

#### 1-2. Construction Style

**20 = Plain sheath, straight**

21 = Plain sheath, 45° bend

22 = Plain sheath, 90° bend

#### 3. Sheath Diameter (inch), 316 SS

**C = 1/8** S = 1/8 epoxy sealed 149°C (300°F)

**D = 3/16** T = 3/16 epoxy sealed 149°C (300°F)

#### 4. Calibration

**J = Type J** T = Type T

**K = Type K** E = Type E

#### 5. Lead Protection

**F = Fiberglass (24 gauge stranded)**

**S = Fiberglass with stainless steel overbraid (24 gauge stranded)**

H = Fiberglass with stainless steel hose (24 gauge stranded)

\*P = Fiberglass (20 gauge stranded)

\*B = Fiberglass with stainless steel overbraid (20 gauge stranded)

\*C = Fiberglass with stainless steel hose (20 gauge stranded)

O = Plug or jack termination on sheath fiberglass (24 gauge stranded)

**T = PFA (24 gauge stranded)**

U = PFA with stainless steel overbraid (24 gauge stranded)

K = PFA with stainless steel hose (24 gauge stranded)

\*V = PFA (20 gauge stranded)

\*W = PFA with stainless steel overbraid (20 gauge stranded)

\*Y = PFA with stainless steel hose (20 gauge stranded)

#### 6. Junction

F = Grounded, flat tip P = Ungrounded, drill point

**G = Grounded, round tip** E = Exposed

D = Grounded, drill point \*H = Grounded, round tip, dual element

R = Ungrounded, flat tip \*S = Ungrounded, round tip, dual element

**U = Ungrounded, round tip**

#### 7. Sheath Length (inches)

A = 1/2 **D = 2** G = 3 1/2 K = 5 N = 6 1/2 R = 8 U = 9 1/2 Z = 12

**B = 1** E = 2 1/2 **H = 4** L = 5 1/2 P = 7 S = 8 1/2 W = 10

**C = 1 1/2 F = 3** J = 4 1/2 M = 6 Q = 7 1/2 T = 9 Y = 11

#### 8-10. Lead Length (inches)

**012, 024, 036, 040, 048, 060, 072, 079, 096 and 120**

Available lengths: 006 to 360, over 360 consult factory

#### 11. Terminations/Options

**A = Standard, 2 1/2 inch split leads**

**B = 2 1/2 inch split leads with #6 spade lugs**

C = 2 1/2 inch split leads with #6 spade lugs and BX connector

**D = Standard male plug, quick disconnect**

E = Standard female jack, quick disconnect

**F = Miniature male plug, quick disconnect**

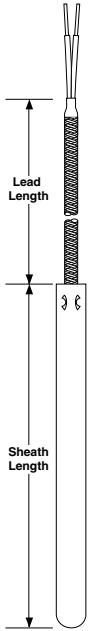
G = Miniature female jack, quick disconnect

H = 1/4 inch push-on connector

# Thermocouples

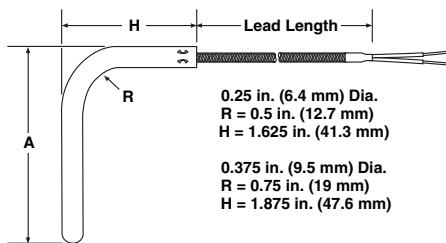
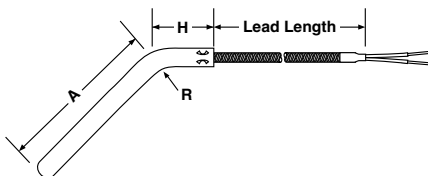
## General Applications

### Large Diameter Rigid Sheath Style 1/4 and 3/8 inch Diameter



Rigid sheath provides protection and accurate placement through bulkheads or platens. Use with a compression fitting for water tight immersion application.

Bent rigid tube offers protection and accurate lead placement around machinery.



Metric sizes available for made-to-order units, consult factory. Minimum order quantity may apply.

### Rapid Ship Sensors

Rapid Ship sensors come with 1/4 inch diameter sheath, 20 gauge stranded fiberglass lead with stainless steel overbraid, grounded junction and a split lead termination.

Calibration	Sheath Length		Lead Length		Part Number
	in.	(mm)	in.	(mm)	
J	4	(102)	48	(1219)	40EJBGD048A
			96	(2438)	40EJBGD096A
	6	(152)	48	(1219)	40EJBGF048A
			96	(2438)	40EJBGF096A

**Custom Ordering Information**—Items in **Bolded Green Type** are preferred with shorter lead times.

1 2 3 4 5 6 7 8 9 10 11

#### 1-2. Construction Style

- 40= Plain sheath, straight, large, diameter**
- 41= Plain (45°) large diameter
- 42= Plain (90°) large diameter

#### 3. Sheath Diameter (inch), 316 SS

- E = 1/4** U = 1/4 epoxy sealed 149°C (300°F)
- G = 3/8** V = 3/8 epoxy sealed 149°C (300°F)

#### 4. Calibration

- J = Type J** T = Type T
- K = Type K** E = Type E

#### 5. Lead Protection

- F = Fiberglass (24 gauge stranded)
- S = Fiberglass with stainless steel overbraid (24 gauge stranded)
- H = Fiberglass with stainless steel hose (24 gauge stranded)
- P = Fiberglass (20 gauge stranded)**
- B = Fiberglass with stainless steel overbraid (20 gauge stranded)**
- C = Fiberglass with stainless steel hose (20 gauge stranded)
- T = PFA (24 gauge stranded)
- U = PFA with stainless steel overbraid (24 gauge stranded)
- K = PFA with stainless steel hose (24 gauge stranded)
- V = PFA (20 gauge stranded)
- W = PFA with stainless steel overbraid (20 gauge stranded)
- Y = PFA with stainless steel hose (20 gauge stranded)

#### 6. Junction

- F = Grounded, flat tip
- G = Grounded, round tip**
- R = Ungrounded, flat tip
- U = Ungrounded, round tip**
- E = Exposed
- H = Grounded, round tip, dual element
- S = Ungrounded, round tip, dual element

#### 7. Sheath Length (inches)

- A = 1 D = 4 G = 7 K = 10 N = 13 R = 16 U = 19 Z = 24
- B = 2** E = 5 H = 8 L = 11 P = 14 S = 17 W = 20
- C = 3** F = 6 J = 9 M = 12 Q = 15 T = 18 Y = 22

#### 8-10. Lead Length (inches)

**012, 024, 036, 040, 048, 060, 072, 079, 096 and 120**

Available lengths: 006 to 360, over 360 consult factory

#### 11. Terminations/Options

- A = Standard, 2 1/2 inch split leads**
- B = 2 1/2 inch split leads with #6 spade lugs
- C = 2 1/2 inch split leads with #6 spade lugs and BX connector
- D = Standard male plug, quick disconnect**
- E = Standard female jack, quick disconnect
- F = Miniature male plug, quick disconnect
- G = Miniature female jack, quick disconnect
- H = 1/4 inch push-on connector