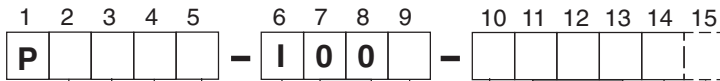
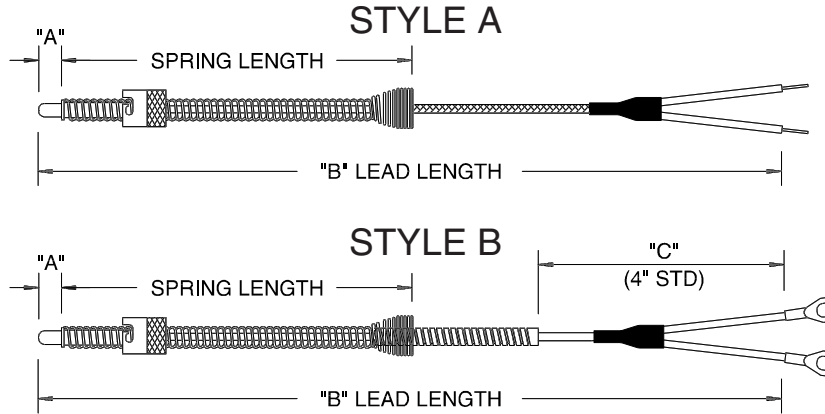


# SPRING ADJUSTABLE DEPTH THERMOCOUPLES



## CONSTRUCTION

A = 8" Spring  
B = 12" Spring

## CALIBRATION

J = Type "J"  
K = Type "K"  
E = Type "E"  
T = Type "T"

## SINGLE/DUPLEX

0 = Single (2 wire)  
4 = Duplex (4 wire)

## JUNCTION TYPE

G = Grounded, Round Tip  
U = Ungrounded, Round Tip

## SHEATH DIAMETER (Inch)

I = 3/16 (.188)

## SHEATH LENGTH ("A")

Whole Inches: Example 00 = None

## SHEATH LENGTH ("A" Fractional)

A = None	J = 3/8
B = 1/16	L = 1/2
C = 1/8	N = 5/8
E = 3/16	Q = 3/4
G = 1/4	S = 7/8

## SPECIAL OPTIONS

C = Cable Clamp on Connector  
F = BX Connector on Leads

## LEADWIRE TERMINATIONS

A = None  
B = 2-1/2" Split Leads  
C = 2-1/2" Split Leads w/#8 Spade Lugs  
D = 2-1/2" Split Leads w/#8 Spade Lugs & BX Connector  
E = 2-1/2" Split Leads w/1/4" Push-on Connectors  
K = Standard Male Plug (200°C)  
L = Standard Plug with Mating Jack (200°C)  
M = Standard Female Jack (200°C)  
Q = Miniature Male Plug (200°C)  
R = Miniature Plug Mating Jack (200°C)  
S = Miniature Female Jack (200°C)

## LEADWIRE LENGTH ("B")

Whole Inches: Example 048 = 48 Inches

**NOTE:** For leads beyond flex armor ("C" length), include length after "B" length. Example 048 (012)

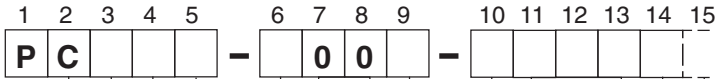
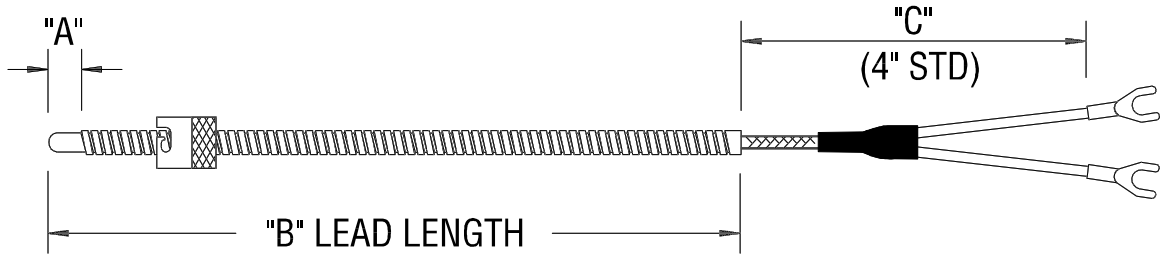
## LEADWIRE TYPE

B = Solid Fiberglass with SS Flex Armor  
C = Solid Fiberglass with SS Overbraid  
E = Stranded Fiberglass with SS Flex Armor  
F = Stranded Fiberglass with SS Overbraid  
8 = Stranded Fiberglass with SS Overbraid & Flex Armor

**NOTES:** Duplex and 1/8" OD sensors are generally constructed with 24 ga. wire. All others are generally constructed with 20 ga. wire.

# FLEX ARMOR ADJUSTABLE DEPTH THERMOCOUPLES

## STYLE C



### CONSTRUCTION

C = Flex Armor

### CALIBRATION

J = Type "J"  
K = Type "K"  
E = Type "E"  
T = Type "T"

### SINGLE/DUPLEX

0 = Single (2 wire)  
4 = Duplex (4 wire)

### JUNCTION TYPE

G = Grounded, Round Tip  
U = Ungrounded, Round Tip

### SHEATH DIAMETER (Inch)

I = 3/16 (.188)  
.280" OD Flex Armor

### SHEATH LENGTH ("A")

Whole Inches: Example 00 = None

### SHEATH LENGTH ("A" Fractional)

A = None	J = 3/8
B = 1/16	L = 1/2
C = 1/8	N = 5/8
E = 3/16	Q = 3/4
G = 1/4	S = 7/8

### SPECIAL OPTIONS

C = Cable Clamp on Connector  
F = BX Connector on Leads

### LEADWIRE TERMINATIONS

A = None  
B = 2-1/2" Split Leads  
C = 2-1/2" Split Leads w/#8 Spade Lugs  
D = 2-1/2" Split Leads w/#8 Spade Lugs & BX Connector  
E = 2-1/2" Split Leads w/1/4" Push-on Connectors  
K = Standard Male Plug (200°C)  
L = Standard Plug with Mating Jack (200°C)  
M = Standard Female Jack (200°C)  
Q = Miniature Male Plug (200°C)  
R = Miniature Plug Mating Jack (200°C)  
S = Miniature Female Jack (200°C)

### LEADWIRE LENGTH ("B")

Whole Inches: Example: 048 = 48 Inches

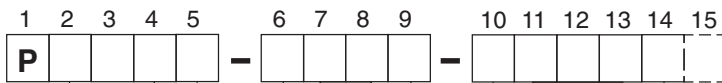
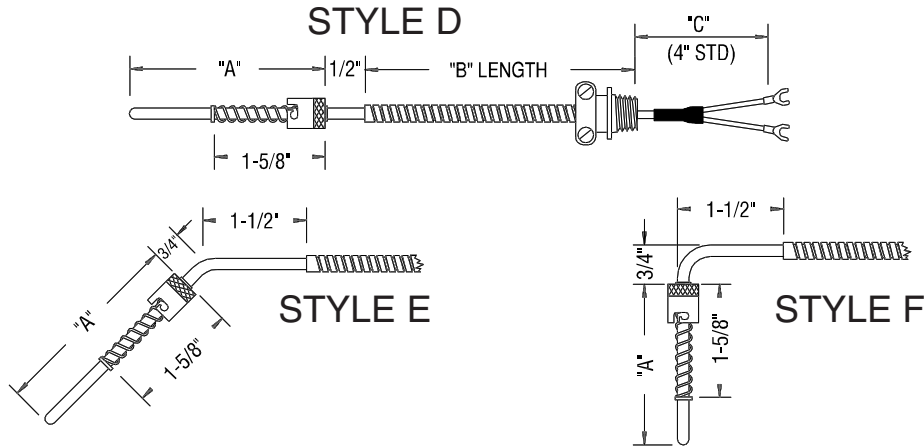
**NOTE:** For leads beyond flex armor ("C" length), include length after "B" length. Example 048 (012)

### LEADWIRE TYPE

B = Solid Fiberglass with SS Flex Armor  
E = Stranded Fiberglass with SS Flex Armor  
8 = Stranded Fiberglass with SS Overbraid & Flex Armor

**NOTES:** Duplex and 1/8" OD sensors are generally constructed with 24 ga. wire. All others are generally constructed with 20 ga. wire.

# FIXED BAYONET THERMOCOUPLES



## CONSTRUCTION

- D = Straight
- E = Bent 45°
- F = Bent 90°

## CALIBRATION

- J = Type "J"
- K = Type "K"
- E = Type "E"
- T = Type "T"

## SINGLE/DUPLEX

- 0 = Single (2 wire)
- 4 = Duplex (4 wire)

## JUNCTION TYPE

- G = Grounded, Round Tip
- U = Ungrounded, Round Tip

## SHEATH DIAMETER (Inch)

- G = 1/8 (.125)
- I = 3/16 (.188)
- K = 1/4 (.250)

## SHEATH LENGTH ("A")<sup>1</sup>

Whole Inches: Example 02 = 2 inches

## SHEATH LENGTH ("A" Fractional)

- |          |         |
|----------|---------|
| A = None | J = 3/8 |
| B = 1/16 | L = 1/2 |
| C = 1/8  | N = 5/8 |
| E = 3/16 | Q = 3/4 |
| G = 1/4  | S = 7/8 |

## SPECIAL OPTIONS

- C = Cable Clamp/Tube Adapter on Connector
- F = BX Connector on Leads

## LEADWIRE TERMINATIONS

- A = None
- B = 2-1/2" Split Leads
- C = 2-1/2" Split Leads w/#8 Spade Lugs
- D = 2-1/2" Split Leads w/#8 Spade Lugs & BX Connector
- E = 2-1/2" Split Leads w/1/4" Push-on Connectors
- K = Standard Male Plug (200°C)
- L = Standard Plug with Mating Jack (200°C)
- M = Standard Female Jack (200°C)
- Q = Miniature Male Plug (200°C)
- R = Miniature Plug Mating Jack (200°C)
- S = Miniature Female Jack (200°C)

## LEADWIRE LENGTH ("B")

Whole Inches: Example: 048 = 48 Inches

**NOTE:** For leads beyond flex armor ("C" length), include length after "B" length. Example 048 (012)

## LEADWIRE TYPE

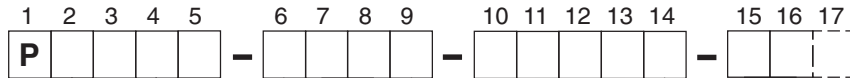
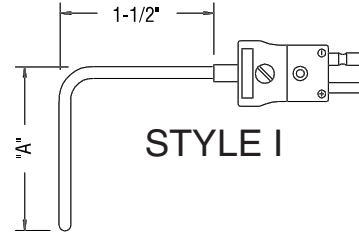
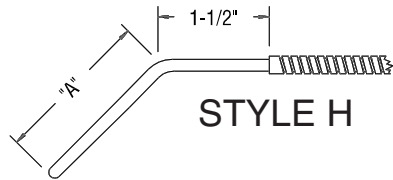
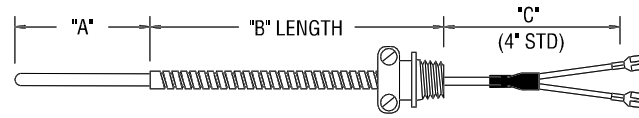
- A = Solid Fiberglass
- B = Solid Fiberglass with SS Flex Armor
- C = Solid Fiberglass with SS Overbraid
- D = Stranded Fiberglass
- E = Stranded Fiberglass with SS Flex Armor
- F = Stranded Fiberglass with SS Overbraid

**NOTES:** Duplex and 1/8" OD sensors are generally constructed with 24 ga. wire. All others are generally constructed with 20 ga. wire.

<sup>1</sup>Refer to Table A on page P-21 for immersion depth calculations

# RIGID TUBE THERMOCOUPLES

## STYLE G



### CONSTRUCTION

- G = Straight
- H = Bent 45°
- I = Bent 90°

### CALIBRATION

- J = Type "J"
- K = Type "K"
- E = Type "E"
- T = Type "T"

### SINGLE/DUPLEX

- 0 = Single (2 wire)
- 4 = Duplex (4 wire)

### JUNCTION TYPE

- G = Grounded, Round Tip
- U = Ungrounded, Round Tip

### SHEATH DIAMETER (Inch)

- G = 1/8 (.125)
- I = 3/16 (.188)
- K = 1/4 (.250)

### SHEATH LENGTH ("A")

Whole Inches: Example 02 = 2 inches

### SHEATH LENGTH ("A" Fractional)

- |          |         |
|----------|---------|
| A = None | J = 3/8 |
| B = 1/16 | L = 1/2 |
| C = 1/8  | N = 5/8 |
| E = 3/16 | Q = 3/4 |
| G = 1/4  | S = 7/8 |

### LEADWIRE TYPE

- A = Solid Fiberglass
- B = Solid Fiberglass with SS Flex Armor
- C = Solid Fiberglass with SS Overbraid
- D = Stranded Fiberglass
- E = Stranded Fiberglass with SS Flex Armor
- F = Stranded Fiberglass with SS Overbraid

### SPECIAL OPTIONS

- C = Cable Clamp/Tube Adapter on Connector
- F = BX Connector on Leads

### SHEATH MOUNTING FITTINGS

- 1A = Adjustable SS Compression Fitting, 1/8" NPT
- 2A = Adjustable Brass Compression Fitting, 1/8" NPT
- 2B = Adjustable Brass Compression Fitting, 1/4" NPT
- 3A = Re-Adjustable SS Compression Fitting, 1/8" NPT
- 25 = Mounting Flange with Brass Compression Fitting
- 28 = Adjustable Bayonet Fitting (1/8" OD Sheath Only)
- 00 = None

### LEADWIRE TERMINATIONS

- A = None
- B = 2-1/2" Split Leads
- C = 2-1/2" Split Leads w/#8 Spade Lugs
- D = 2-1/2" Split Leads w/#8 Spade Lugs & BX Connector
- E = 2-1/2" Split Leads w/1/4" Push-on Connectors
- K = Standard Male Plug (200°C)
- L = Standard Plug with Mating Jack (200°C)
- M = Standard Female Jack (200°C)
- Q = Miniature Male Plug (200°C)
- R = Miniature Plug Mating Jack (200°C)
- S = Miniature Female Jack (200°C)

### LEADWIRE LENGTH ("B")

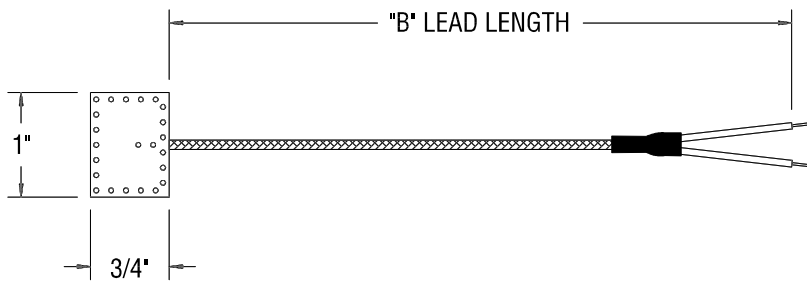
Whole Inches: Example: 048 = 48 Inches

**NOTES:** For leads beyond flex armor ("C" length), include length after "B" length.  
Example 048 (012)

Duplex and 1/8" OD sensors are generally constructed with 24 ga. wire. All others are generally constructed with 20 ga. wire.

# SPADE THERMOCOUPLES

## STYLE J



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15  
**P J** **0 G** - **X X X** -

### CONSTRUCTION

J = Spade T/C

### CALIBRATION

J = Type "J"  
 K = Type "K"  
 E = Type "E"  
 T = Type "T"

### SINGLE

0 = Single (2 wire)

### JUNCTION TYPE

G = Grounded

### SPADE MATERIAL

B = Brass  
 S = Stainless Steel

X

X

X

### LEADWIRE TYPE

A = Solid Fiberglass  
 C = Solid Fiberglass with SS Overbraid  
 D = Stranded Fiberglass  
 F = Stranded Fiberglass with SS Overbraid

### SPECIAL OPTIONS

C = Cable Clamp on Connector  
 F = BX Connector on Leads

### LEADWIRE TERMINATIONS

A = None  
 B = 2-1/2" Split Leads  
 C = 2-1/2" Split Leads w/#8 Spade Lugs  
 D = 2-1/2" Split Leads w/#8 Spade Lugs & BX Connector  
 E = 2-1/2" Split Leads w/1/4" Push-on Connectors  
 K = Standard Male Plug (200°C)  
 L = Standard Plug with Mating Jack (200°C)  
 M = Standard Female Jack (200°C)  
 Q = Miniature Male Plug (200°C)  
 R = Miniature Plug Mating Jack (200°C)  
 S = Miniature Female Jack (200°C)

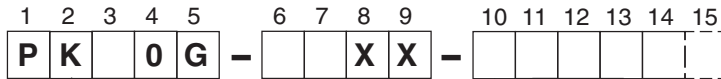
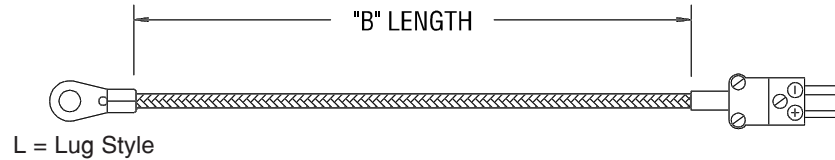
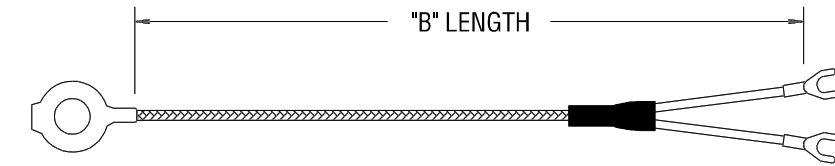
### LEADWIRE LENGTH ("B")

Whole Inches: Example: 048 = 48 Inches

**NOTES:** These assemblies are generally constructed with 20 ga. wire.

# WASHER/LUG THERMOCOUPLES

## STYLE K



### CONSTRUCTION

K = Washer/Lug T/C

### CALIBRATION

J = Type "J"  
 K = Type "K"  
 E = Type "E"  
 T = Type "T"

### SINGLE

0 = Single

### JUNCTION TYPE<sup>1</sup>

G = Grounded

### RING TYPE

D = Double Cupped Washer  
 L = Electrical Lug

### BOLT/STUD SIZE

Code	Washer ID	Lug ID
1=#6	.187"	.144"
2=#8	.187"	.144"
3=#10	.203"	.196"
4=1/4"	.328"	.266"
5=5/16"	.328"	.328"
6=3/8"	.406"	.390"

X

X

### LEADWIRE TYPE

A = Solid Fiberglass  
 C = Solid Fiberglass with SS Overbraid  
 D = Stranded Fiberglass

### SPECIAL OPTIONS

C = Cable Clamp on Connector  
 F = BX Connector on Leads

### LEADWIRE TERMINATIONS

A = None  
 B = 2-1/2" Split Leads  
 C = 2-1/2" Split Leads w/#8 Spade Lugs  
 D = 2-1/2" Split Leads w/#8 Spade Lugs & BX Connector  
 E = 2-1/2" Split Leads w/1/4" Push-on Connectors  
 K = Standard Male Plug (200°C)  
 L = Standard Plug with Mating Jack (200°C)  
 M = Standard Female Jack (200°C)  
 Q = Miniature Male Plug (200°C)  
 R = Miniature Plug Mating Jack (200°C)  
 S = Miniature Female Jack (200°C)

### LEADWIRE LENGTH ("B")

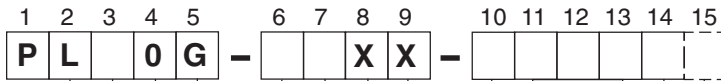
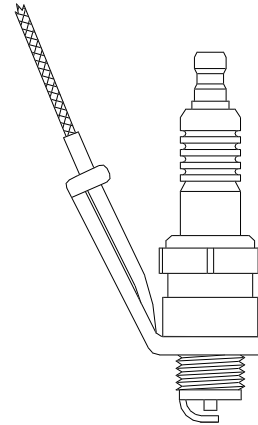
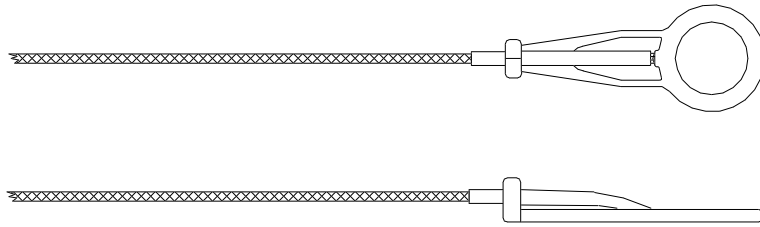
Whole Inches: Example: 048 = 48 Inches

**NOTES:** These assemblies are generally constructed with 20 ga. wire.

<sup>1</sup>Ungrounded t/c available only in Electrical Lug style. Consult sales for availability.

# SPARK PLUG GASKET THERMOCOUPLES

STYLE L



**CONSTRUCTION**

L = Gasket T/C

**CALIBRATION**

J = Type "J"  
 K = Type "K"  
 E = Type "E"  
 T = Type "T"

**SINGLE**

0 = Single (2 wire)

**JUNCTION TYPE**

G = Grounded

**GASKET SIZE**

J = 10mm (.39"ID)  
 L = 12mm (.47"ID)  
 M = 14mm (.55"ID)

**FORK STYLE**

S = Straight  
 B = Bent 70°

X

X

**LEADWIRE TYPE**

C = Solid Fiberglass with SS Overbraid  
 F = Stranded Fiberglass with SS Overbraid  
 6 = Solid Teflon with SS Overbraid (500°F)  
 4 = Solid Teflon (500°F)

**SPECIAL OPTIONS**

C = Cable Clamp on Connector  
 F = BX Connector on Leads

**LEADWIRE TERMINATIONS**

A = None  
 B = 2-1/2" Split Leads  
 C = 2-1/2" Split Leads w/#8 Spade Lugs  
 D = 2-1/2" Split Leads w/#8 Spade Lugs & BX Connector  
 E = 2-1/2" Split Leads w/1/4" Push-on Connectors  
 K = Standard Male Plug (200°C)  
 L = Standard Plug with Mating Jack (200°C)  
 M = Standard Female Jack (200°C)  
 Q = Miniature Male Plug (200°C)  
 R = Miniature Plug Mating Jack (200°C)  
 S = Miniature Female Jack (200°C)

**LEADWIRE LENGTH ("B")**

Whole Inches: Example: 048 = 48 Inches

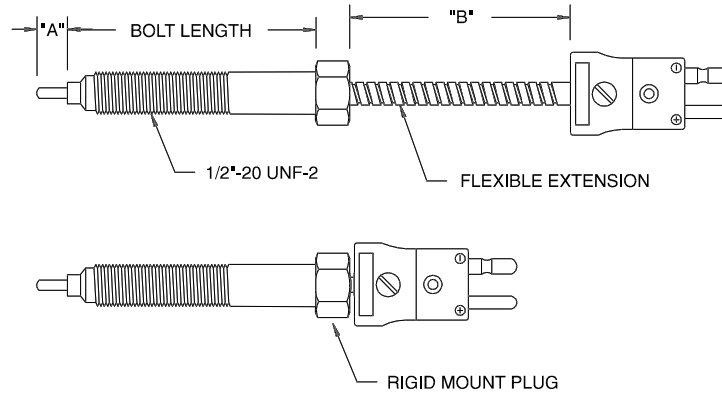
**NOTES:** These assemblies are generally constructed with 24 ga. wire.

Consult sales for other gasket sizes.

The Spark Plug Gasket Thermocouple is a simple effective method to monitor the cylinder head temperature on a variety of single and multiple cylinder engines. The spark plug is inserted through the sensor and then torqued into the head as usual. SensorTec's unique one piece design allows the use of the standard spark plug and eliminates the need for machining of the cylinder head.

# MELT BOLT THERMOCOUPLES

## STYLE M, N, & O



### CONSTRUCTION

M = 3" Melt Bolt  
N = 4" Melt Bolt  
O = 6" Melt Bolt

### CALIBRATION

J = Type "J"  
K = Type "K"  
E = Type "E"  
T = Type "T"

### SINGLE/DUPLEX

0 = Single (2 wire)  
4 = Duplex (4 wire)

### JUNCTION TYPE

G = Grounded, Round Tip  
U = Ungrounded, Round Tip

### SHEATH DIAMETER (Inch)

G = 1/8 (.125)  
I = 3/16 (.188)

### SHEATH LENGTH ("A")

Whole Inches: Example 00 = None

### SHEATH LENGTH ("A" Fractional)

A = Flush	J = 3/8
B = 1/16	L = 1/2
C = 1/8	N = 5/8
E = 3/16	Q = 3/4
G = 1/4	S = 7/8

### SPECIAL OPTIONS

C = Cable Clamp on Connector  
F = BX Connector on Leads

### LEADWIRE TERMINATIONS

A = None  
B = 2-1/2" Split Leads  
C = 2-1/2" Split Leads w/#8 Spade Lugs  
D = 2-1/2" Split Leads w/#8 Spade Lugs & BX Connector  
E = 2-1/2" Split Leads w/1/4" Push-on Connectors  
K = Standard Male Plug (200°C)  
L = Standard Plug with Mating Jack (200°C)  
M = Standard Female Jack (200°C)  
Q = Miniature Male Plug (200°C)  
R = Miniature Plug Mating Jack (200°C)  
S = Miniature Female Jack (200°C)

### LEADWIRE LENGTH ("B")<sup>1</sup>

Whole Inches: Example: 048 = 48 Inches

**NOTE:** For leads beyond flex armor ("C" length), include length after "B" length. Example 048 (012)

### LEADWIRE TYPE

B = Solid Fiberglass with SS Flex Armor  
C = Solid Fiberglass with SS Overbraid  
E = Stranded Fiberglass with SS Flex Armor  
F = Stranded Fiberglass with SS Overbraid

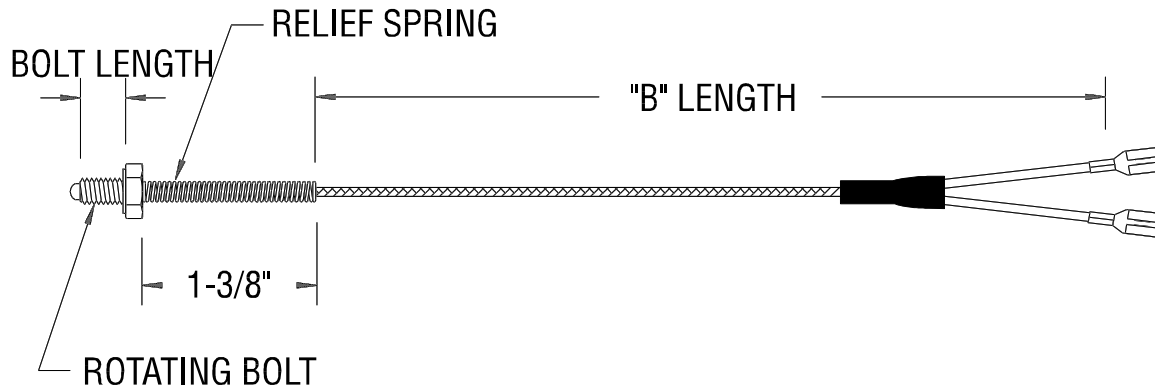
**NOTES:** Duplex and 1/8" OD sensors are generally constructed with 24 ga. wire. All others are generally constructed with 20 ga. wire.

<sup>1</sup>For rigid mount connector, insert 000



# THREADED NOZZLE BOLT THERMOCOUPLES

## STYLE R



1 2 3 4 5      6 7 8 9      10 11 12 13 14      15 16  
**P R**      **0**      -      **G 0 1 A**      -      [ ] [ ] [ ] [ ] [ ]      -      [ ] [ ]

### CONSTRUCTION

R = Threaded Nozzle T/C

### CALIBRATION

J = Type "J"  
 K = Type "K"  
 E = Type "E"  
 T = Type "T"

### SINGLE

0 = Single (2 wire)

### JUNCTION TYPE

G = Grounded, Round Tip  
 U = Ungrounded, Round Tip

### SHEATH DIAMETER (Inch)

G = 1/8 (.125)

### SHEATH LENGTH ("A")

Whole Inches: Example 01=1"

### SHEATH LENGTH (Fractional)

A = None

### LEADWIRE TYPE

A = Solid Fiberglass  
 B = Solid Fiberglass with SS Flex Armor  
 C = Solid Fiberglass with SS Overbraid  
 D = Stranded Fiberglass  
 E = Stranded Fiberglass with SS Flex Armor  
 F = Stranded Fiberglass with SS Overbraid

### SPECIAL OPTIONS

C = Cable Clamp on Connector  
 F = BX Connector on Leads

### BOLT SIZES

1 = 1/4"-20 X 3/8" Long  
 2 = 1/4"-28 X 3/8" Long  
 3 = M6 X 1.00 X 12  
 4 = M8 X 1.25 X 12

Consult factory for other bolt sizes

### LEADWIRE TERMINATIONS

A = None  
 B = 2-1/2" Split Leads  
 C = 2-1/2" Split Leads w/#8 Spade Lugs  
 D = 2-1/2" Split Leads w/#8 Spade Lugs & BX Connector  
 E = 2-1/2" Split Leads w/1/4" Push-on Connectors  
 K = Standard Male Plug (200°C)  
 L = Standard Plug with Mating Jack (200°C)  
 M = Standard Female Jack (200°C)  
 Q = Miniature Male Plug (200°C)  
 R = Miniature Plug Mating Jack (200°C)  
 S = Miniature Female Jack (200°C)

### LEADWIRE LENGTH ("B")

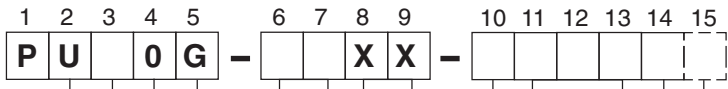
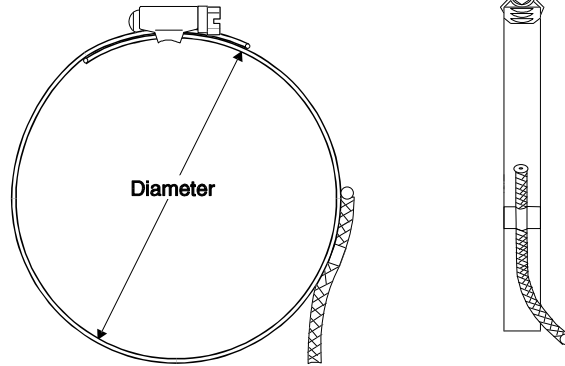
Whole Inches: Example: 048 = 48 Inches

**NOTES:** For leads beyond flex armor ("C" length), include length after "B" length.  
 Example 048 (012).

These assemblies are generally constructed with 24 ga. wire.

# PIPE CLAMP THERMOCOUPLES

## STYLE U



### CONSTRUCTION

U = Pipe Clamp

### CALIBRATION

J = Type "J"  
 K = Type "K"  
 E = Type "E"  
 T = Type "T"

### SINGLE

0 = Single (2 wire)

### JUNCTION TYPE<sup>1</sup>

G = Grounded

### CLAMP DIAMETER RANGE

Code	Diameter	IPS Size
12	11/16 to 1-1/4"	1/2 & 3/4"
24	1-1/16 to 2"	1 & 1-1/2"
44	2 to 3-1/4"	2 & 2-1/2"
60	3 to 4-1/4"	3 & 3-1/2"
88	4-3/4 to 6"	4"
96	5-1/4 to 6-1/2"	5"
98	5-3/4 to 7"	6"

X

### LEADWIRE TYPE

C = Solid Fiberglass with SS Overbraid  
 F = Stranded Fiberglass with SS Overbraid

### SPECIAL OPTIONS

C = Cable Clamp on Connector  
 F = BX Connector on Leads

### LEADWIRE TERMINATIONS

A = None  
 B = 2-1/2" Split Leads  
 C = 2-1/2" Split Leads w/#8 Spade Lugs  
 D = 2-1/2" Split Leads w/#8 Spade Lugs & BX Connector  
 E = 2-1/2" Split Leads w/1/4" Push-on Connectors  
 K = Standard Male Plug (200°C)  
 L = Standard Plug with Mating Jack (200°C)  
 M = Standard Female Jack (200°C)  
 Q = Miniature Male Plug (200°C)  
 R = Miniature Plug Mating Jack (200°C)  
 S = Miniature Female Jack (200°C)

### LEADWIRE LENGTH ("B" )

Whole Inches: Example: 048 = 48 Inches

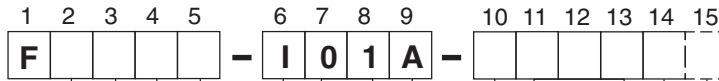
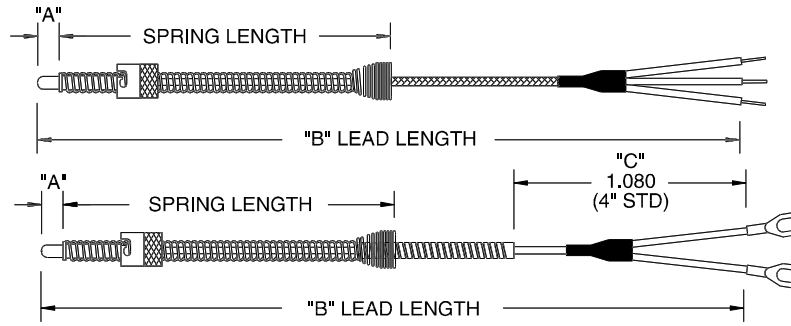
**NOTES:** These assemblies are generally constructed with 20 ga. wire.

Pipe clamps are made of stainless steel.

<sup>1</sup>Consult sales for ungrounded style thermocouple availability.

# SPRING ADJUSTABLE DEPTH RTD'S

## STYLE A & B



### CONSTRUCTION

A = 8" Spring  
B = 12" Spring

### ELEMENT TYPE

Resistance @ 0°C	2 Wire	3 Wire
Platinum 100Ω Single	A	B
Platinum 100Ω Dual	D	E

### ACCURACY & TEMPERATURE COEFFICIENT

Accuracy @ 0°C	Din.00385	Jis.00392
Class B (.12%)	G	H
Class A (.06%)	J	K

### TEMPERATURE RANGE

-50 to +200° C L  
Note: Requires Leadwire Type M or N.  
-50 to +450° C M  
Note: Requires Leadwire Type D, E, or F.

### SHEATH DIAMETER (Inch)

I = 3/16 (.188)

### SHEATH LENGTH ("A")

Whole Inches: Example 01 = 1 inch

### SHEATH LENGTH ("A" Fractional)

A = None

### SPECIAL OPTIONS

C = Cable Clamp on Connector  
F = BX Connector on Leads

### LEADWIRE TERMINATIONS

A = None  
B = 2-1/2" Split Leads  
C = 2-1/2" Split Leads w/#8 Spade Lugs  
D = 2-1/2" Split Leads w/#8 Spade Lugs & BX Connector  
E = 2-1/2" Split Leads w/1/4" Push-on Connectors  
K = Standard Male Plug (200°C)  
L = Standard Plug with Mating Jack (200°C)  
M = Standard Female Jack (200°C)  
Q = Miniature Male Plug (200°C)  
R = Miniature Plug Mating Jack (200°C)  
S = Miniature Female Jack (200°C)

### LEADWIRE LENGTH ("B")

Whole Inches: Example: 048 = 48 Inches

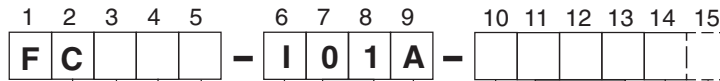
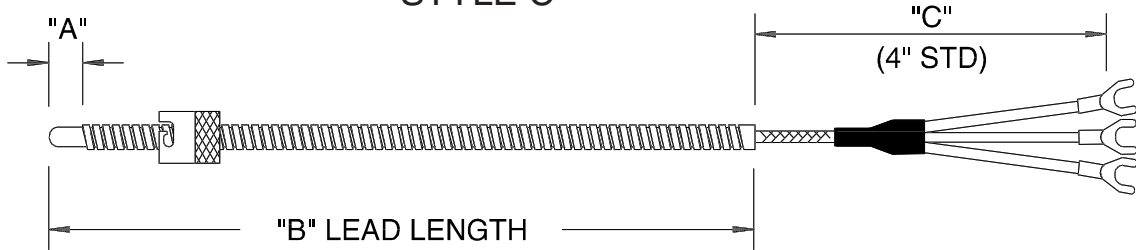
**NOTE:** For leads beyond flex armor ("C" length), include length after "B" length. Example 048 (012)

### LEADWIRE TYPE

D = Stranded Fiberglass (450°C)  
E = Stranded Fiberglass with SS Flex Armor  
F = Stranded Fiberglass with SS Overbraid  
M = Stranded Teflon (200°C)  
N = Stranded Teflon with SS Flex Armor  
O = Stranded Teflon with SS Overbraid

# FLEX ARMOR ADJUSTABLE DEPTH RTD'S

## STYLE C



### CONSTRUCTION

C = Flex Armor

### ELEMENT TYPE

Resistance @ 0°C	2 Wire	3 Wire
Platinum 100Ω Single	A	B
Platinum 100Ω Dual	D	E

### ACCURACY & TEMPERATURE COEFFICIENT

Accuracy @ 0°C	Din.00385	Jis.00392
Class B (.12%)	G	H
Class A (.06%)	J	K

### TEMPERATURE RANGE

-50 to +200° C	L
Note: Requires Leadwire Type M or N.	
-50 to +450° C	M
Note: Requires Leadwire Type D, E, or F.	

### SHEATH DIAMETER (Inch)

I = 3/16 (.188)

### SHEATH LENGTH ("A")

Whole Inches: Example 01 = 1 inch

### SHEATH LENGTH ("A" Fractional)

A = None

### SPECIAL OPTIONS

C = Cable Clamp on Connector  
F = BX Connector on Leads

### LEADWIRE TERMINATIONS

A = None  
B = 2-1/2" Split Leads  
C = 2-1/2" Split Leads w/#8 Spade Lugs  
D = 2-1/2" Split Leads w/#8 Spade Lugs & BX Connector  
E = 2-1/2" Split Leads w/1/4" Push-on Connectors  
K = Standard Male Plug (200°C)  
L = Standard Plug with Mating Jack (200°C)  
M = Standard Female Jack (200°C)  
Q = Miniature Male Plug (200°C)  
R = Miniature Plug Mating Jack (200°C)  
S = Miniature Female Jack (200°C)

### LEADWIRE LENGTH ("B")

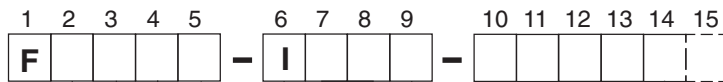
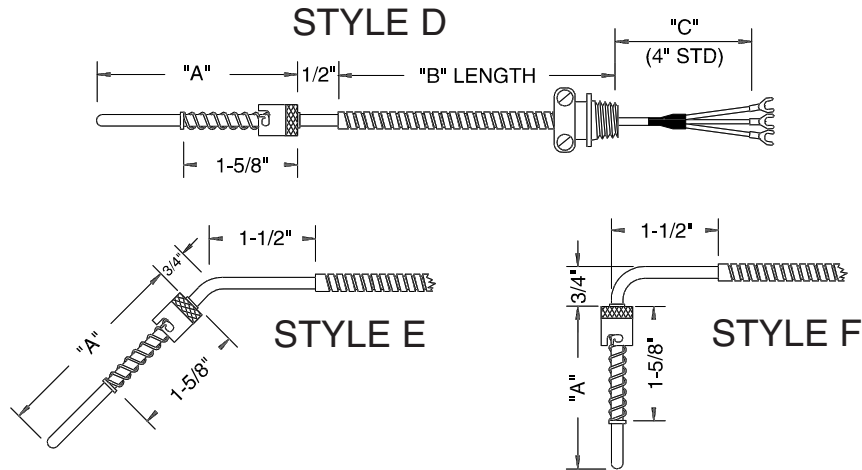
Whole Inches: Example: 048 = 48 Inches

**NOTE:** For leads beyond flex armor ("C" length), include length after "B" length.  
Example 048 (012)

### LEADWIRE TYPE

D = Stranded Fiberglass (450°C)  
E = Stranded Fiberglass with SS Flex Armor  
F = Stranded Fiberglass with SS Overbraid  
M = Stranded Teflon (200°C)  
N = Stranded Teflon with SS Flex Armor

# FIXED BAYONET RTD'S



### CONSTRUCTION

- D = Straight
- E = Bent 45°
- F = Bent 90°

### ELEMENT TYPE

Resistance @ 0°C	2 Wire	3 Wire
Platinum 100Ω Single	A	B
Platinum 100Ω Dual	D	E

### ACCURACY & TEMPERATURE COEFFICIENT

Accuracy @ 0°C	Din.00385	Jis.00392
Class B (.12%)	G	H
Class A (.06%)	J	K

### TEMPERATURE RANGE

- 50 to +200° C L
- Note: Requires Leadwire Type M or N.
- 50 to +450° C M
- Note: Requires Leadwire Type D, E, or F.

### SHEATH DIAMETER (Inch)

- I = 3/16 (.188)
- K = 1/4 (.250)

### SHEATH LENGTH ("A")<sup>1</sup>

Whole Inches: Example 03 = 3 inches

### SHEATH LENGTH ("A" Fractional)

- |          |         |
|----------|---------|
| A = None | J = 3/8 |
| B = 1/16 | L = 1/2 |
| C = 1/8  | N = 5/8 |
| E = 3/16 | Q = 3/4 |
| G = 1/4  | S = 7/8 |

### SPECIAL OPTIONS

- C = Cable Clamp/Tube Adapter on Connector
- F = BX Connector on Leads

### LEADWIRE TERMINATIONS

- A = None
- B = 2-1/2" Split Leads
- C = 2-1/2" Split Leads w/#8 Spade Lugs
- D = 2-1/2" Split Leads w/#8 Spade Lugs & BX Connector
- E = 2-1/2" Split Leads w/1/4" Push-on Connectors
- K = Standard Male Plug (200°C)
- L = Standard Plug with Mating Jack (200°C)
- M = Standard Female Jack (200°C)
- Q = Miniature Male Plug (200°C)
- R = Miniature Plug Mating Jack (200°C)
- S = Miniature Female Jack (200°C)

### LEADWIRE LENGTH ("B")

Whole Inches: Example: 048 = 48 Inches

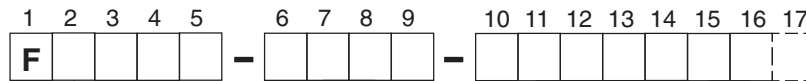
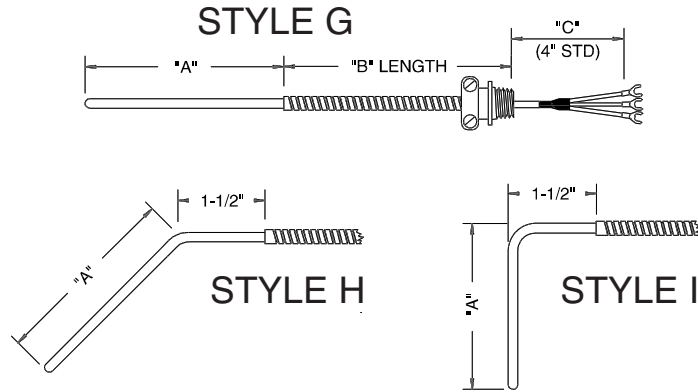
**NOTE:** For leads beyond flex armor ("C" length), include length after "B" length.  
Example 048 (012)

### LEADWIRE TYPE

- D = Stranded Fiberglass (450°C)
- E = Stranded Fiberglass with SS Flex Armor
- F = Stranded Fiberglass with SS Overbraid
- M = Stranded Teflon (200°C)
- N = Stranded Teflon with SS Flex Armor
- O = Stranded Teflon with SS Overbraid

<sup>1</sup>Refer to Table A on page P-21 for immersion depth calculations

# RIGID TUBE RTD'S



### CONSTRUCTION

G = Straight  
 H = Bent 45°  
 I = Bent 90°

### ELEMENT TYPE

Resistance @ 0°C	2 Wire	3 Wire
Platinum 100Ω Single	A	B
Platinum 100Ω Dual	D	E

### ACCURACY & TEMPERATURE COEFFICIENT

Accuracy @ 0°C	Din.00385	Jis.00392
Class B (.12%)	G	H
Class A (.06%)	J	K

### TEMPERATURE RANGE

-50 to +200° C      L  
 Note: Requires Leadwire Type M or N.  
 -50 to +450° C      M  
 Note: Requires Leadwire Type D, E, or F.

### SHEATH DIAMETER (Inch)

I = 3/16 (.188)  
 K = 1/4 (.250)

### SHEATH LENGTH ("A")

Whole Inches: Example 06 = 6 Inches

### SHEATH LENGTH ("A" Fractional)

A = None	J = 3/8
B = 1/16	L = 1/2
C = 1/8	N = 5/8
E = 3/16	Q = 3/4
G = 1/4	S = 7/8

### SPECIAL OPTIONS

C = Cable Clamp/Tube Adapter on Connector  
 F = BX Connector on Leads

### SHEATH MOUNTING FITTINGS

1A = Adjustable SS Compression Fitting, 1/8" NPT  
 2A = Adjustable Brass Compr. Fitting, 1/8" NPT  
 2B = Adjustable Brass Compr. Fitting, 1/4" NPT  
 3A = Re-Adjustable SS Compr. Fitting, 1/8" NPT  
 25 = Mounting Flange with Brass Compr. Fitting  
 00 = None

### LEADWIRE TERMINATIONS

A = None  
 B = 2-1/2" Split Leads  
 C = 2-1/2" Split Leads w/#8 Spade Lugs  
 D = 2-1/2" Split Leads w/#8 Spade Lugs & BX Connector  
 E = 2-1/2" Split Leads w/1/4" Push-on Connectors  
 K = Standard Male Plug (200°C)  
 L = Standard Plug with Mating Jack (200°C)  
 M = Standard Female Jack (200°C)  
 Q = Miniature Male Plug (200°C)  
 R = Miniature Plug Mating Jack (200°C)  
 S = Miniature Female Jack (200°C)

### LEADWIRE LENGTH ("B")

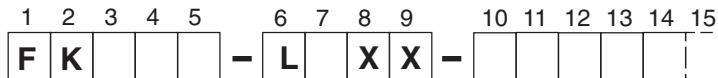
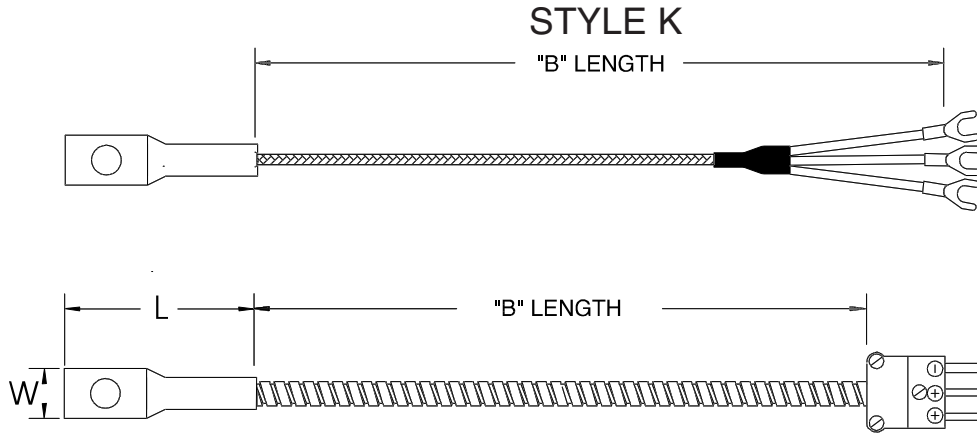
Whole Inches: Example: 048 = 48 Inches

**NOTE:** For leads beyond flex armor ("C" length), include length after "B" length.  
 Example 048 (012)

### LEADWIRE TYPE

D = Stranded Fiberglass (450°C)  
 E = Stranded Fiberglass with SS Flex Armor  
 F = Stranded Fiberglass with SS Overbraid  
 M = Stranded Teflon (200°C)  
 N = Stranded Teflon with SS Flex Armor  
 O = Stranded Teflon with SS Overbraid

# LUG STYLE SURFACE MOUNT RTD'S



### CONSTRUCTION

K = Lug Style RTD

### ELEMENT TYPE

Resistance @ 0°C	2 Wire	3 Wire
Platinum 100Ω Single	A	B
Platinum 100Ω Dual	D	E

### ACCURACY & TEMPERATURE COEFFICIENT

Accuracy @ 0°C	Din.00385	Jis.00392
Class B (.12%)	G	H
Class A (.06%)	J	K

### TEMPERATURE RANGE

-50 to +200° C	L
-50 to +450° C	M

### LUG TYPE

L = Heavy Duty Lug

### BOLT/STUD SIZE

Code	Lug ID	"W"	"L"
3=#10	.196"	.50	1.80
4=1/4"	.266"	.50	1.80
5=5/16"	.328"	.59	1.95

X  
X

### SPECIAL OPTIONS

C = Cable Clamp on Connector  
F = BX Connector on Leads

### LEADWIRE TERMINATIONS

A = None  
B = 2-1/2" Split Leads  
C = 2-1/2" Split Leads w/#8 Spade Lugs  
D = 2-1/2" Split Leads w/#8 Spade Lugs & BX Connector  
E = 2-1/2" Split Leads w/1/4" Push-on Connectors  
K = Standard Male Plug (200°C)  
L = Standard Plug with Mating Jack (200°C)  
M = Standard Female Jack (200°C)  
Q = Miniature Male Plug (200°C)  
R = Miniature Plug Mating Jack (200°C)  
S = Miniature Female Jack (200°C)

### LEADWIRE LENGTH ("B")

Whole Inches: Example: 048 = 48 Inches

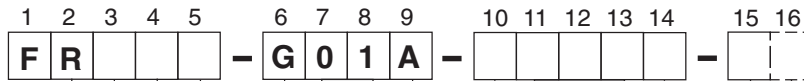
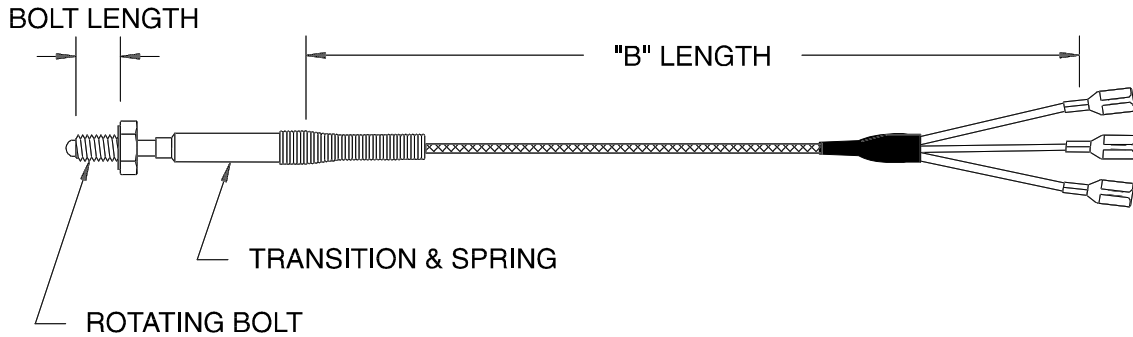
**NOTE:** For leads beyond flex armor ("C" length), include length after "B" length.  
Example 048 (012)

### LEADWIRE TYPE

E = Stranded Fiberglass with SS Flex Armor  
F = Stranded Fiberglass with SS Overbraid  
M = Stranded Teflon (200°C)  
N = Stranded Teflon with SS Flex Armor  
O = Stranded Teflon with SS Overbraid

# THREADED NOZZLE BOLT RTD'S

## STYLE R



### CONSTRUCTION

R = Threaded Nozzle RTD

### ELEMENT TYPE

Resistance @ 0°C	2 Wire	3 Wire
Platinum 100Ω Single	A	B
Platinum 100Ω Dual	D	E

### ACCURACY & TEMPERATURE COEFFICIENT

Accuracy @ 0°C	Din.00385	Jis.00392
Class B (.12%)	G	H
Class A (.06%)	J	K

### TEMPERATURE RANGE

-50 to +200° C	L
-50 to +450° C	M

### SHEATH DIAMETER (Inch)

G = 1/8 (.125)

### SHEATH LENGTH ("A")

Whole Inches: 01 = 1 "

### SHEATH LENGTH ("A" Fractional)

A = None

### SPECIAL OPTIONS

C = Cable Clamp on Connector  
F = BX Connector on Leads

### BOLT SIZES

1 = 1/4" - 20 X 3/8" Long
2 = 1/4" - 28 X 3/8" Long
3 = M6 X 1.00 X 12
4 = M8 X 1.25 X 12

### LEADWIRE TERMINATIONS

A = None  
B = 2-1/2" Split Leads  
C = 2-1/2" Split Leads w/#8 Spade Lugs  
D = 2-1/2" Split Leads w/#8 Spade Lugs & BX Connector  
E = 2-1/2" Split Leads with 1/4" Push-on Connectors  
K = Standard Male Plug (200°C)  
L = Standard Plug with Mating Jack (200°C)  
M = Standard Female Jack (200°C)  
Q = Miniature Male Plug (200°C)  
R = Miniature Plug with Mating Jack (200°C)  
S = Miniature Female Jack (200°C)

### LEADWIRE LENGTH ("B")

Whole Inches: Example: 048 = 48 Inches

**NOTE:** For leads beyond flex armor ("C" length), include length after "B" length. Example 048 (012)

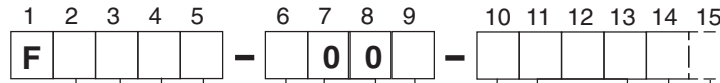
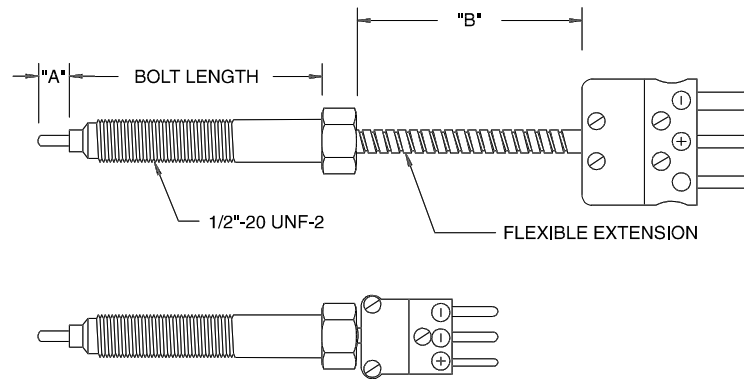
### LEADWIRE TYPE

D = Stranded Fiberglass (450°C)  
E = Stranded Fiberglass with SS Flex Armor  
F = Stranded Fiberglass with SS Overbraid  
M = Stranded Teflon (200°C)  
N = Stranded Teflon with SS Flex Armor  
O = Stranded Teflon with SS Overbraid



# MELT BOLT RTD'S

## STYLE M, N, & O



### CONSTRUCTION

M = 3" Melt Bolt  
 N = 4" Melt Bolt  
 O = 6" Melt Bolt

### ELEMENT TYPE

Resistance @ 0°C	2 Wire	3 Wire
Platinum 100Ω Single	A	B
Platinum 100Ω Dual	D	E

### ACCURACY & TEMPERATURE COEFFICIENT

Accuracy @ 0°C	Din.00385	Jis.00392
Class B (.12%)	G	H
Class A (.06%)	J	K

### TEMPERATURE RANGE

-50 to +200° C	L
-50 to +450° C	M

### SHEATH DIAMETER (Inch)

G = 1/8	(.125)
I = 3/16	(.188)

### SHEATH LENGTH ("A")

Whole Inches: Example 00 = None

### SHEATH LENGTH ("A" Fractional)

A = Flush	J = 3/8
B = 1/16	L = 1/2
C = 1/8	N = 5/8
E = 3/16	Q = 3/4
G = 1/4	S = 7/8

### SPECIAL OPTIONS

C = Cable Clamp on Connector  
 F = BX Connector on Leads

### LEADWIRE TERMINATIONS

A = None  
 B = 2-1/2" Split Leads  
 C = 2-1/2" Split Leads w/#8 Spade Lugs  
 D = 2-1/2" Split Leads w/#8 Spade Lugs & BX Connector  
 E = 2-1/2" Split Leads w/1/4" Push-on Connectors  
 K = Standard Male Plug (200°C)  
 L = Standard Plug with Mating Jack (200°C)  
 M = Standard Female Jack (200°C)  
 Q = Miniature Male Plug (200°C)  
 R = Miniature Plug Mating Jack (200°C)  
 S = Miniature Female Jack (200°C)

### LEADWIRE LENGTH ("B")<sup>1</sup>

Whole Inches: Example: 048 = 48 Inches

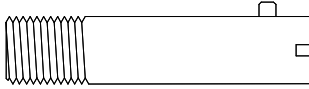
**NOTES:** For leads beyond flex armor ("C" length), include length after "B" length.  
 Example 048 (012)

<sup>1</sup>For rigid mount connector, insert 000.

### LEADWIRE TYPE

E = Stranded Fiberglass with SS Flex Armor  
 F = Stranded Fiberglass with SS Overbraid  
 N = Stranded Teflon with SS Flex Armor

# ACCESSORIES FOR PLASTICS INDUSTRY SENSORS

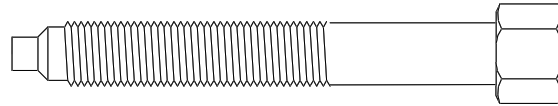


## BAYONET ADAPTERS

(See Table A)

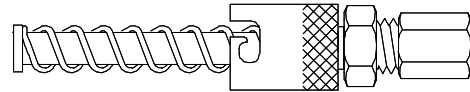
NICKEL PLATED STEEL		
Part #	Length	Thread
441050	7/8"	1/8" NPT
441052	1-1/4"	1/8" NPT
441053	1-1/2"	1/8" NPT
441055	2"	1/8" NPT
441056	2-1/4"	1/8" NPT
441057	2-1/2"	1/8" NPT
441058	3"	1/8" NPT
441059	3-1/2"	1/8" NPT
441060	4"	1/8" NPT
441061	5"	1/8" NPT
441062	6"	1/8" NPT
441065	7/8"	3/8"-24
441066	1-1/2"	3/8"-24
441068	2-1/2"	3/8"-24
441069	3-1/2"	3/8"-24

STAINLESS STEEL		
Part #	Length	Thread
441050S	7/8"	1/8"-27 NPT
441052S	1-1/4"	1/8"-27 NPT
441053S	1-1/2"	1/8"-27 NPT
441055S	2"	1/8"-27 NPT
441056S	2-1/4"	1/8"-27 NPT
441057S	2-1/2"	1/8"-27 NPT
441058S	3"	1/8"-27 NPT
441059S	3-1/2"	1/8"-27 NPT
441060S	4"	1/8"-27 NPT
441061S	5"	1/8"-27 NPT
441062S	6"	1/8"-27 NPT
441065S	7/8"	3/8"-24
441066S	1-1/2"	3/8"-24
441067S	1-3/4"	3/8"-24
441068S	2-1/2"	3/8"-24
441069S	3-1/2"	3/8"-24
441075S	2-1/2"	M10 X 1.5
441076S	2-3/8"	M10 X 1.5



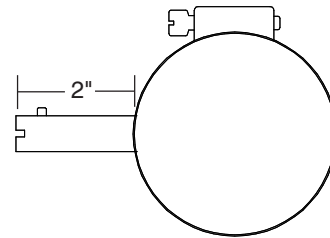
## BLANK MELT BOLTS

Part #	Description
45203B	3" Long Blank Bolt
45204B	4" Long Blank Bolt
45206B	6" Long Blank Bolt



## ADJUSTABLE BAYONET FITTING

Part #	Description (For 1/8" OD Sheath Only)
441080	Adjustable Bayonet w/Brass Ferrule
441080N	Adjustable Bayonet w/Nylon Ferrule
441080S	Adjustable Bayonet w/SST Ferrule



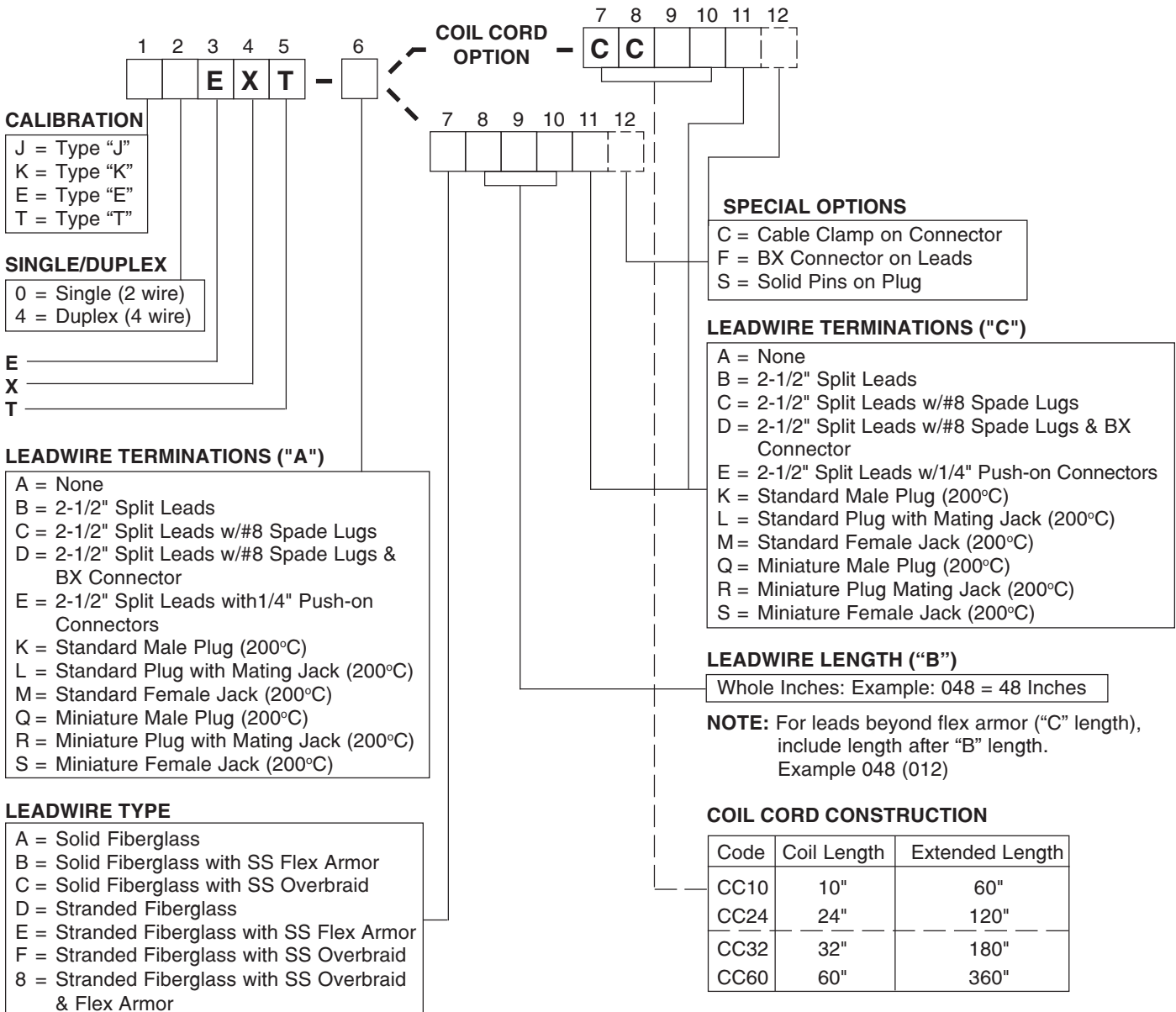
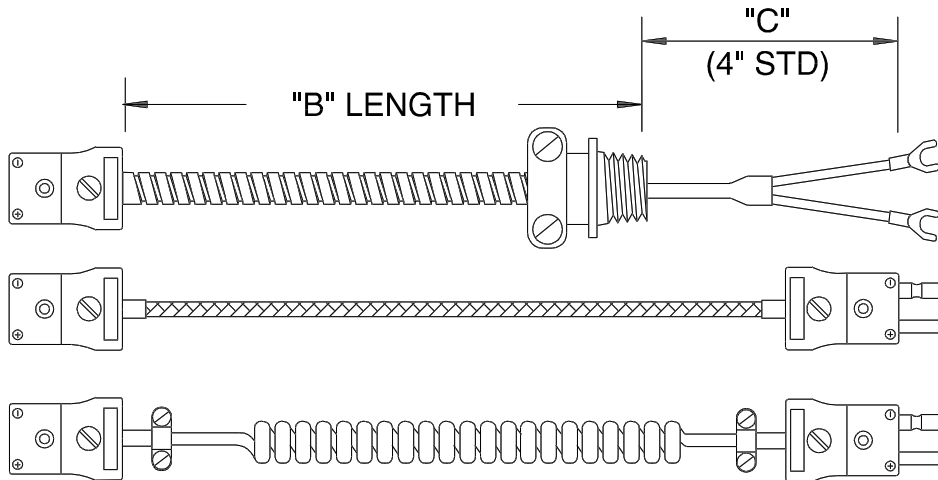
## PIPE CLAMP ADAPTERS

Part #	Clamp Diameter	Pipe Size
PA 12	11/16 to 1-1/4"	1/2 to 3/4"
PA 24	1-1/6 to 2"	1 to 1-1/2"
PA 44	2 to 3-1/4"	2 to 2-1/2"
PA 60	3 to 4-1/4"	3 to 3-1/2"
PA 88	4-3/4 to 6"	4"
PA 96	5-1/4 to 6-1/2"	5"
PA 98	5-3/4 to 7"	6"

**TABLE A - IMMERSION DEPTH CALCULATION**

"A" Dimension	Immersion Depth For Various Bayonet Adapter Lengths					
	7/8"	1-1/4"	1-1/2"	2"	2-1/4"	2-1/2"
2"	5/8 to 1-1/8"	1/4 to 3/4"	-----	-----	-----	-----
2-1/2"	1-1/8 to 1-5/8"	3/4 to 1-1/4"	1/2 to 1"	-----	-----	-----
3"	1-5/8 to 2-1/8"	1-1/4 to 1-3/4"	1 to 1-1/2"	1/2 to 1"	1/4 to 3/4"	-----
3-1/2"	2-1/8 to 2-5/8"	1-3/4 to 2-1/4"	1-1/2 to 2"	1 to 1-1/2"	3/4 to 1-1/4"	1/2 to 1"
4"	2-5/8 to 3-1/8"	2-1/4 to 2-3/4"	2 to 2-1/2"	1-1/2 to 2"	1-1/4 to 1-3/4"	1 to 1-1/2"
4-1/2"	3-1/8 to 3-5/8"	2-3/4 to 3-1/4"	2-1/2 to 3"	2 to 2-1/2"	1-3/4 to 2-1/4"	1-1/2 to 2"
5"	3-5/8 to 4-1/8"	3-1/4 to 3-3/4"	3 to 3-1/2"	2-1/2 to 3"	2-1/4 to 2-3/4"	2 to 2-1/2"
5-1/2"	4-1/8 to 4-5/8"	3-3/4 to 4-1/4"	3-1/2 to 4"	3 to 3-1/2"	2-3/4 to 3-1/4"	2-1/2 to 3"
6"	4-5/8 to 5-1/8"	4-1/4 to 4-3/4"	4 to 4-1/2"	3-1/2 to 4"	3-1/4 to 3-3/4"	3 to 3-1/2"

# FLEXIBLE THERMOCOUPLE EXTENSIONS



NOTE: 26 Gauge stranded conductors maximum temperature rating, 221°F

# FLEXIBLE RTD EXTENSIONS

