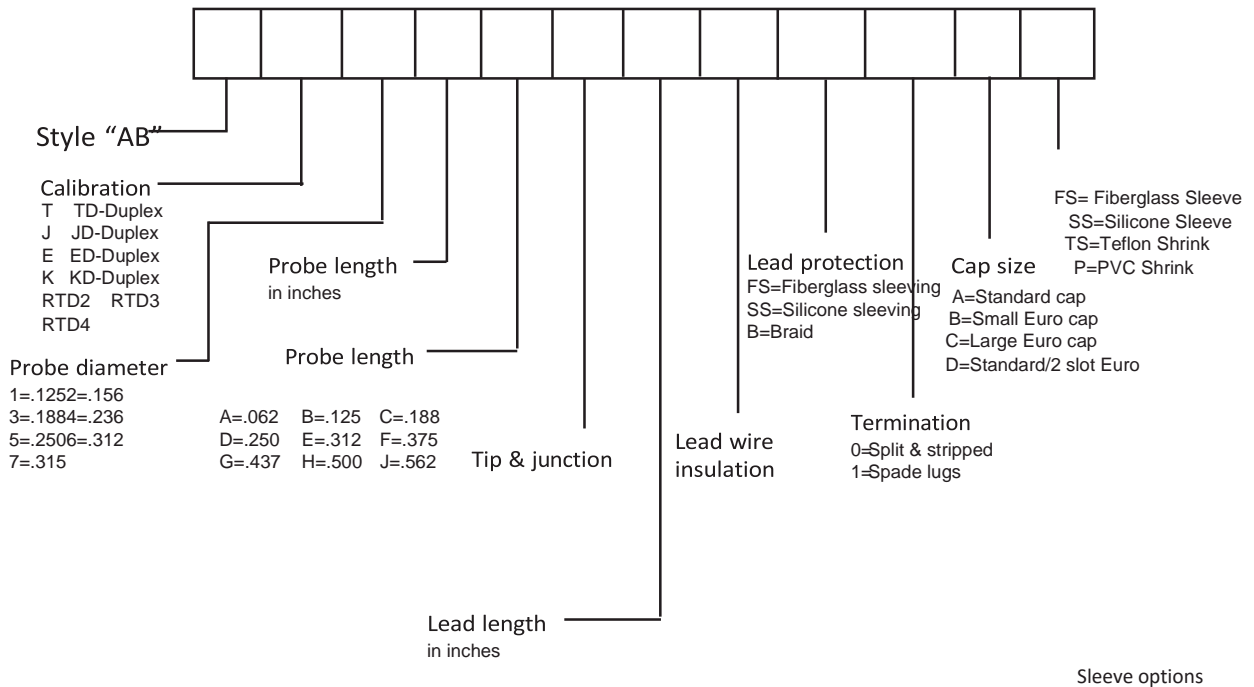
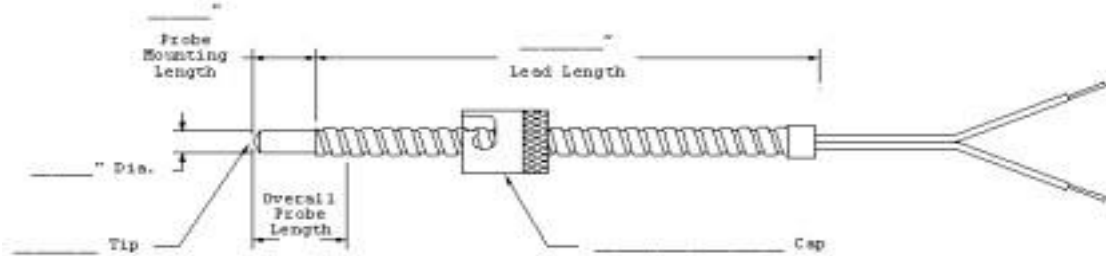
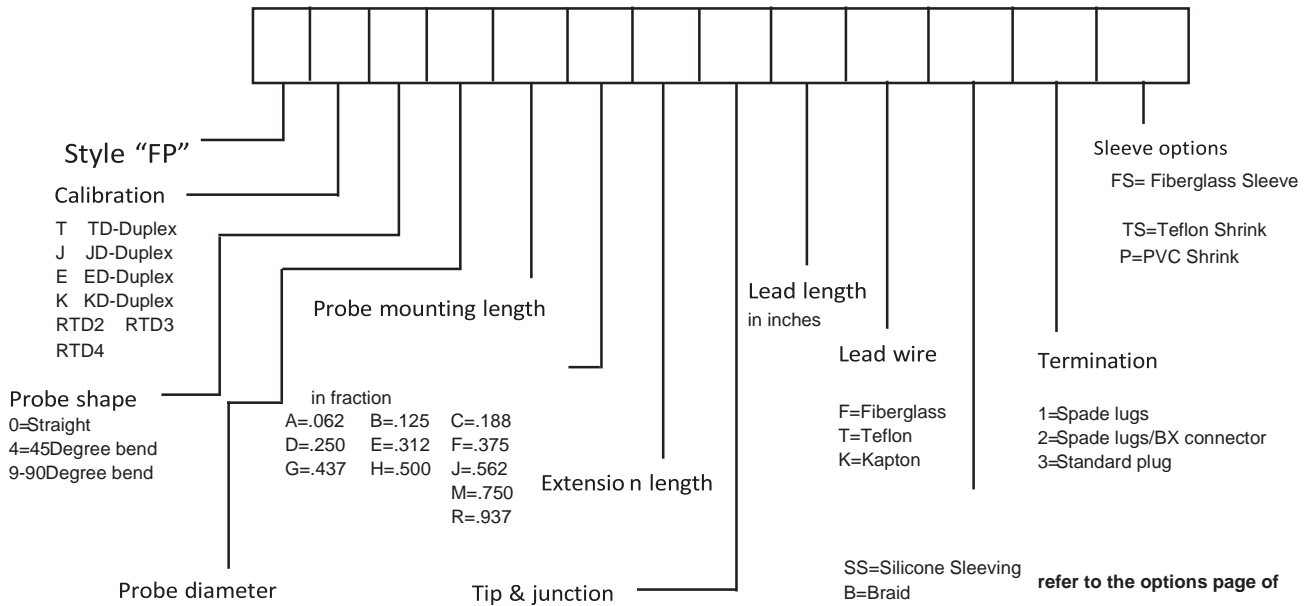
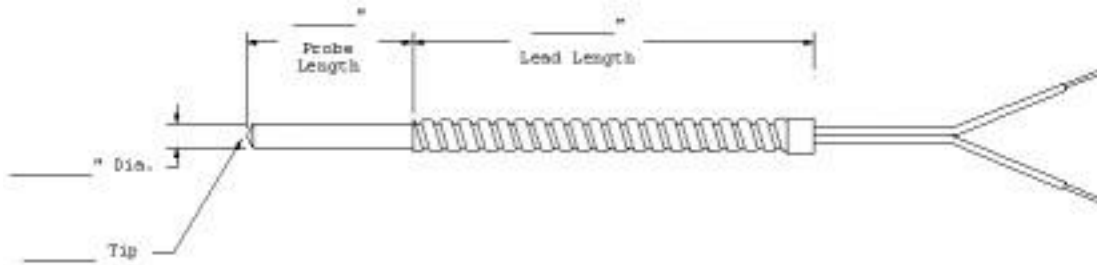


Adjustable Bayonet Thermocouple: Easily obtaining a desired probe depth, the adjustable bayonet sensor uses a tension spring or armor hose to create a spring loaded effect. The bayonet cap rotates up and down a 10" spring or the full length of the armor hose. This allows for positive contact between the probe tip and surface for accurate temperature readings. Our adjustable bayonet style thermocouples are also available in metric sizes.



- Probe diameter
 - 1=.1252=.156
 - 3=.1884=.236
 - 5=.2506=.312
 - 7=.315
- Probe length in inches
 - A=.062 B=.125 C=.188
 - D=.250 E=.312 F=.375
 - G=.437 H=.500 J=.562
- Tip & junction
 - K=.625 L=.687 M=.750 GD GR GF
 - N=.812 P=.875 R=.937 UD UR UF
 - Z=0 EJ=Exposed junction OF=Open end flush tip
- Lead length in inches
 - A=Armor BA=Braid/Armor
- Lead wire insulation
 - FS=Fiberglass sleeve
 - SS=Silicone sleeve
 - B=Braid
- Lead protection
 - FS=Fiberglass sleeving
 - SS=Silicone sleeving
 - B=Braid
- Termination
 - 0=Split & stripped
 - 1=Spade lugs
 - 2=Spade lugs/BX connector
 - 3=Standard plug
 - 4=Standard jack
 - 5=Mini plug
 - 6=Mini jack
- Cap size
 - A=Standard cap
 - B=Small Euro cap
 - C=Large Euro cap
 - D=Standard/2 slot Euro
- Sleeve options
 - FS= Fiberglass Sleeve
 - SS=Silicone Sleeve
 - TS=Teflon Shrink
 - P=PVC Shrink

Fixed Probe Thermocouple: Fixed probe sensors can be used in drilled holes where mounting is not an issue. This type of construction can be submerged in liquids as well. Moisture proofing the lead exit is a popular option for immersion applications.



SS=Silicone Sleeve

in inches

Probe mounting length

insulation

0=Split & stripped

K=.625 L=.687

N=.812 P=.875

Z=0

4=Standard jack

5=Mini plug

6=Mini jack

Lead protection

FS=Fiberglass sleeving

A=Armor

BA=Braid/Armor

For additional terminations call a sales engineer.

0=.118 1=.125

2=.156 3=.188

4=.236 5=.250

6=.312 7=.315

8=.375

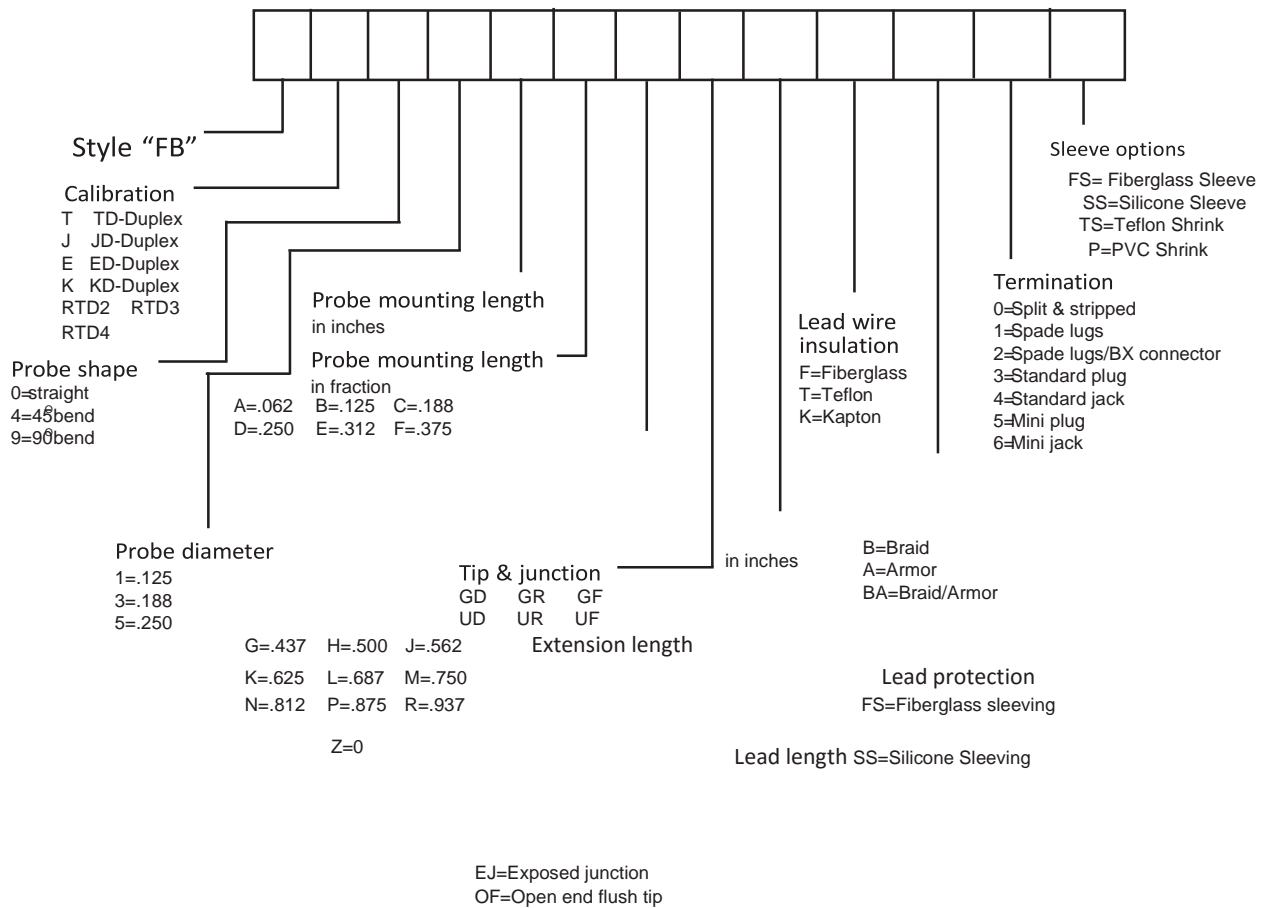
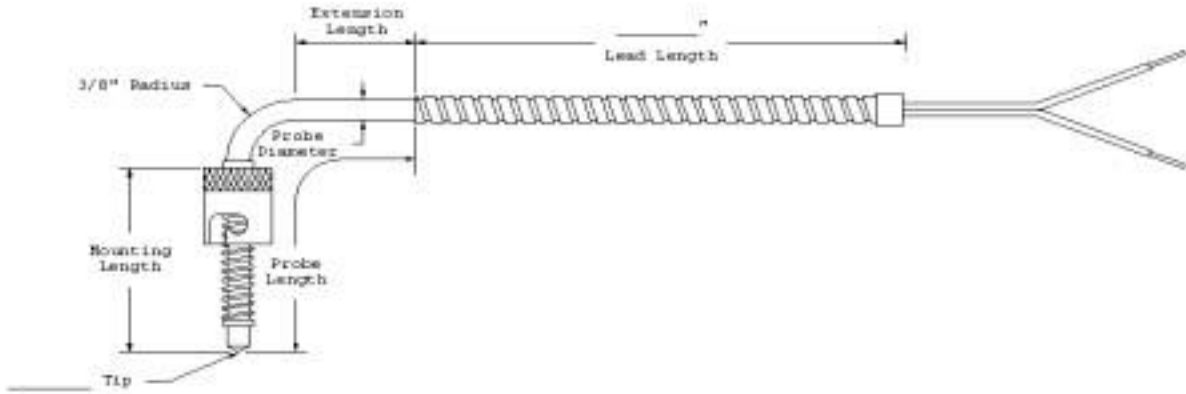
GD GR GF

UD UR UF

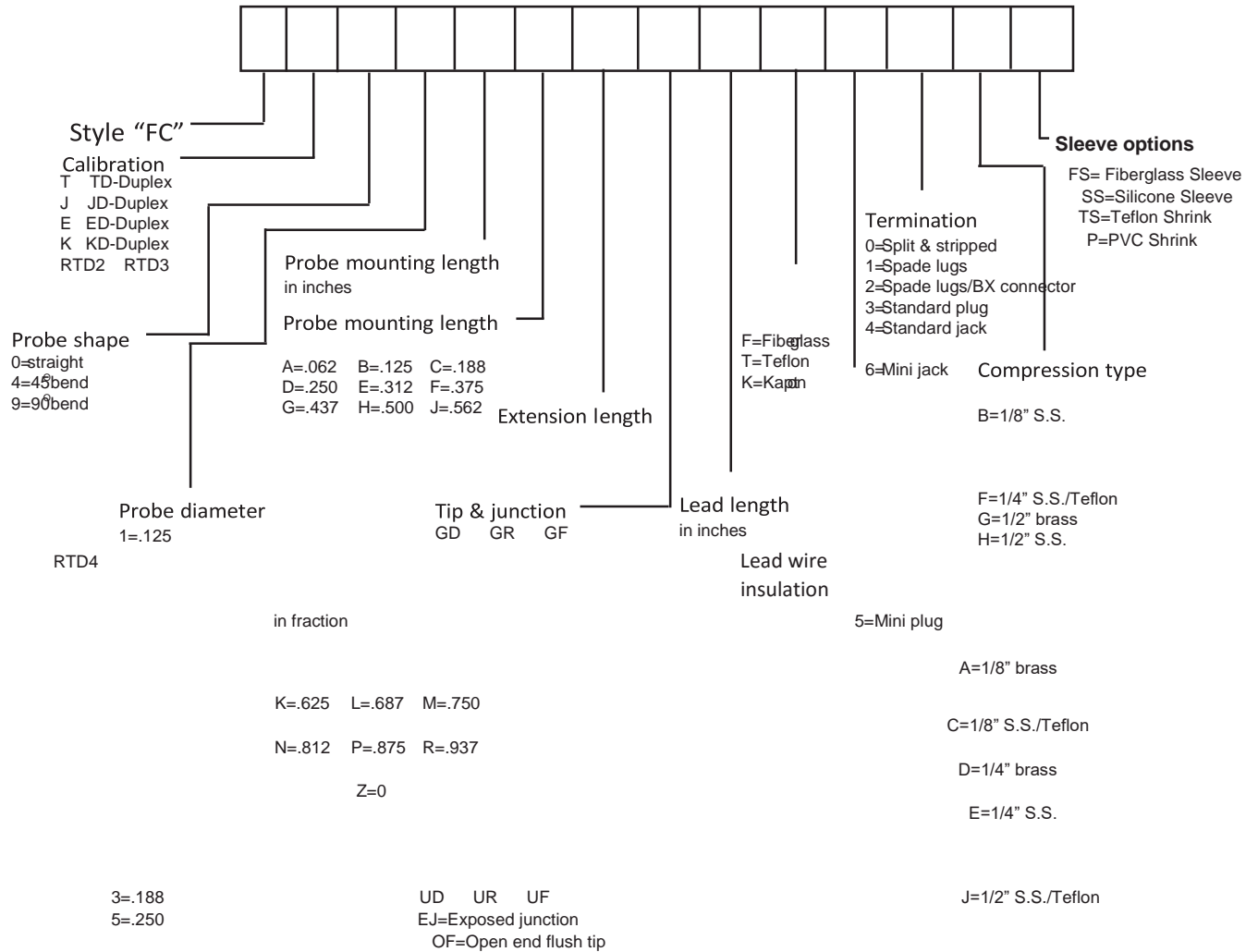
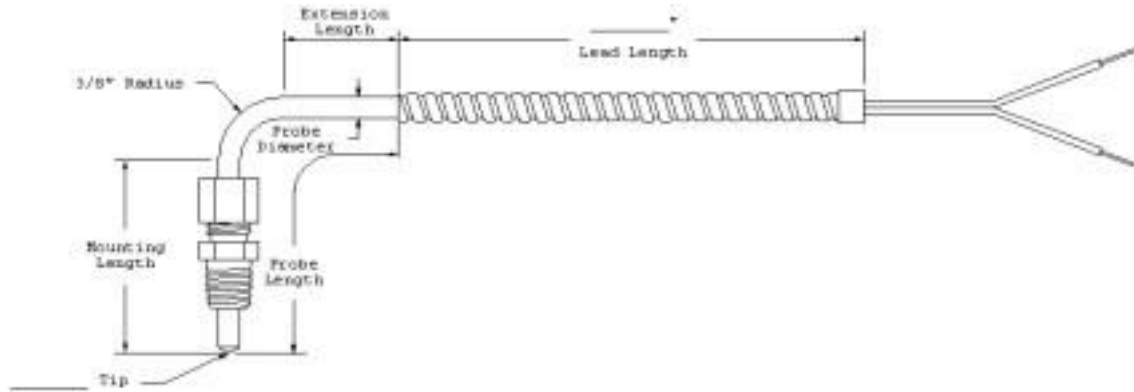
EJ=Exposed junction

OF=Open end flush tip

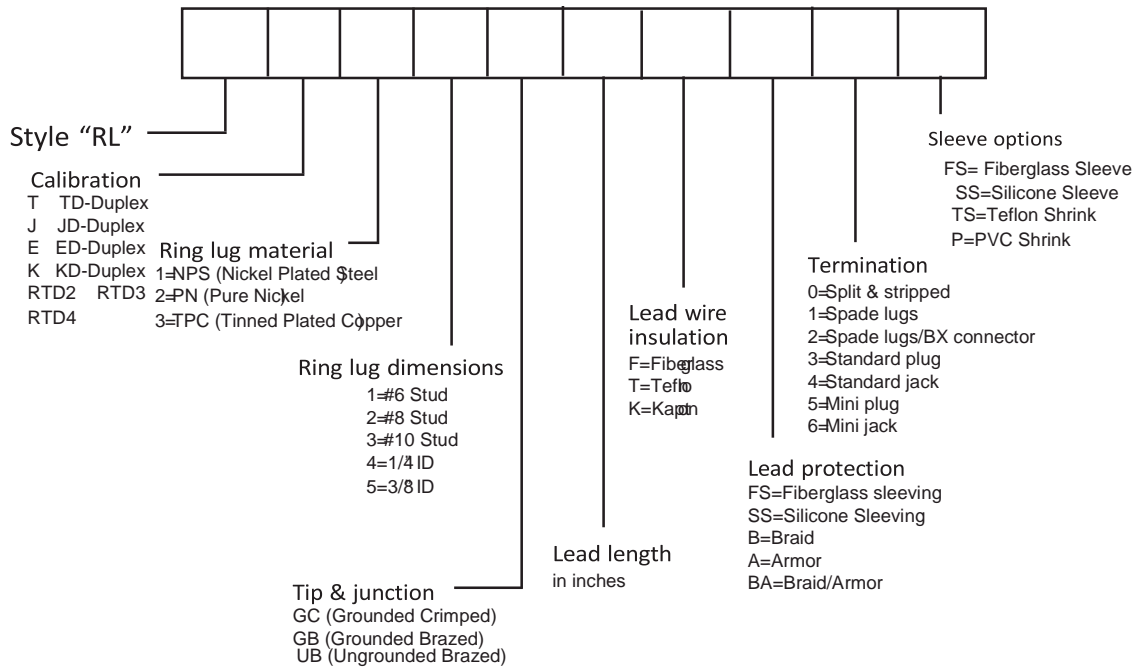
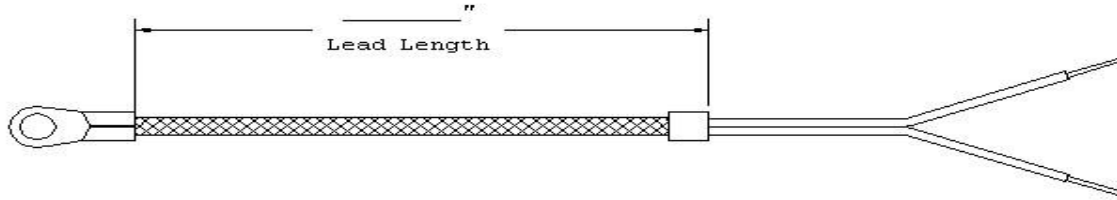
Fixed Bayonet Thermocouple: Fixed bayonet style thermocouples provide constant spring pressure in the well. Replacement is fast and consistent. This style of thermocouple can be provided with a connector attached to the back of the probe, eliminating the need for lead wires. The critical dimension for this style of thermocouple is from the tip to the back of the cap. Standard extension length is one and one quarter inches, other lengths are available. Minimum extension length is one half inch.



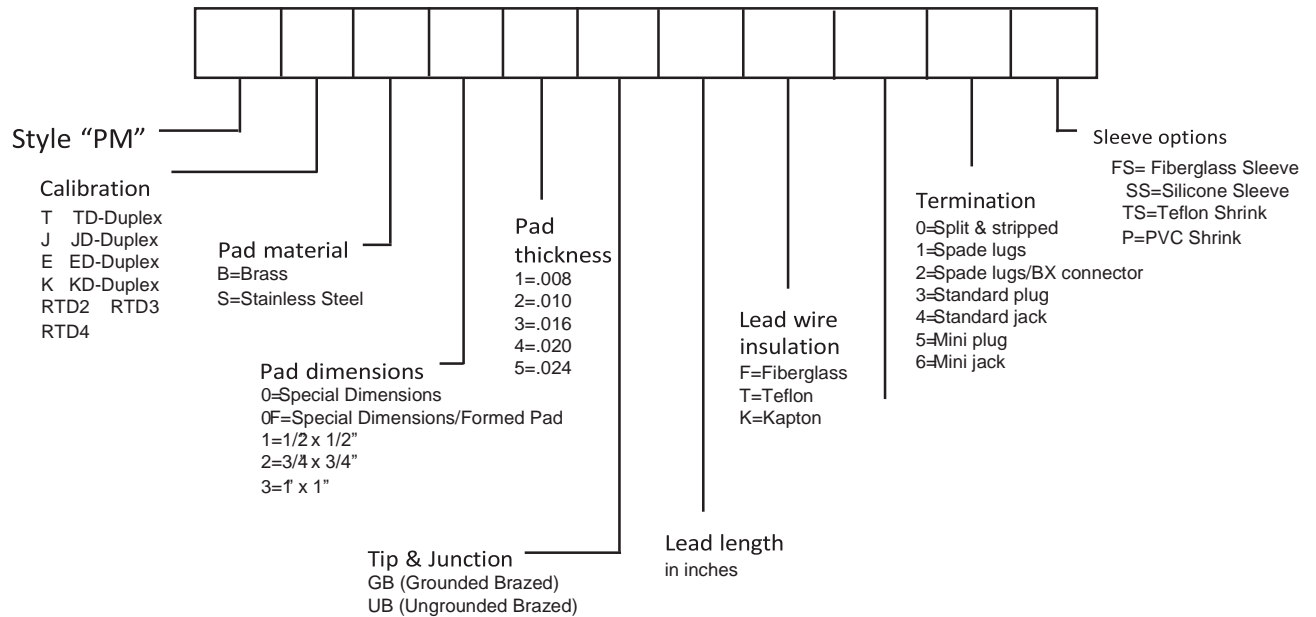
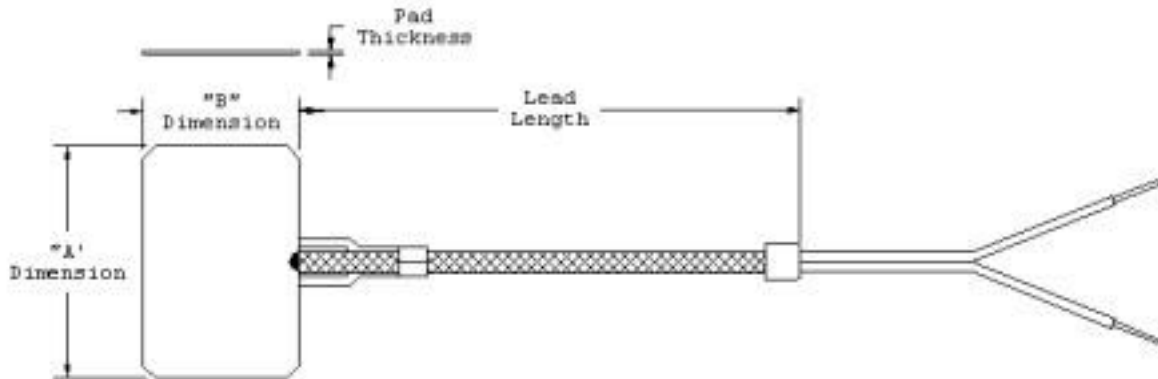
Fixed Compression Sensor: Another means of attaching a thermocouple probe is by using it in conjunction with a compression fitting. By drilling and tapping threads, the compression fitting is tightened into the process hole and again onto the probe therefore holding the probe into place. Replacement is fast and consistent. A 1/8" NPT is standard while many others are available.



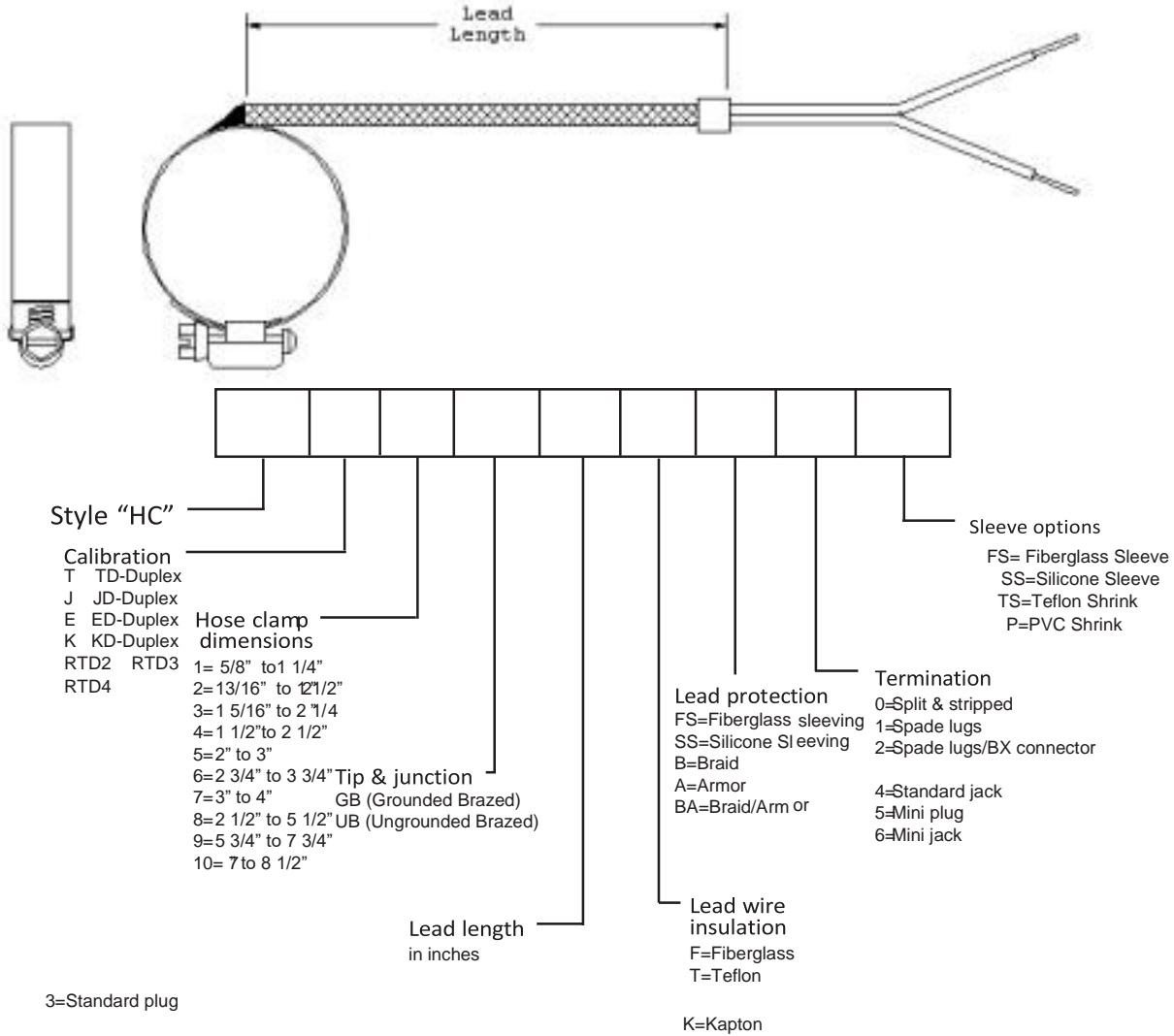
Ring Lug Sensor: A ring lug thermocouple is used to measure surface temperature. A hole is drilled and tapped. A screw or bolt is inserted through the lug and tightened down, securing the lug to the surface. Standard lug size is a #10 stud. Twenty gage wires are normally used with most size lugs.



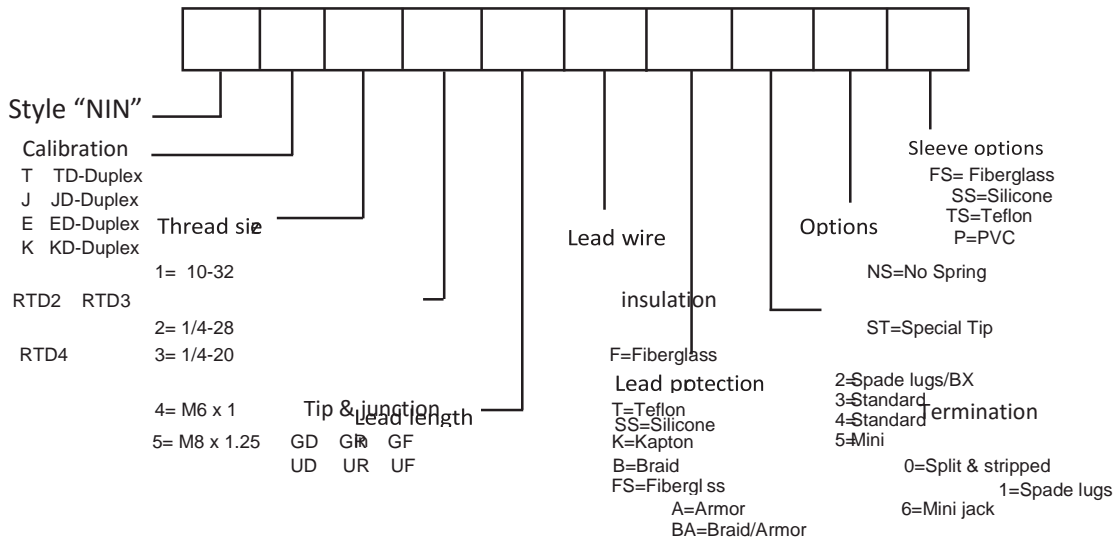
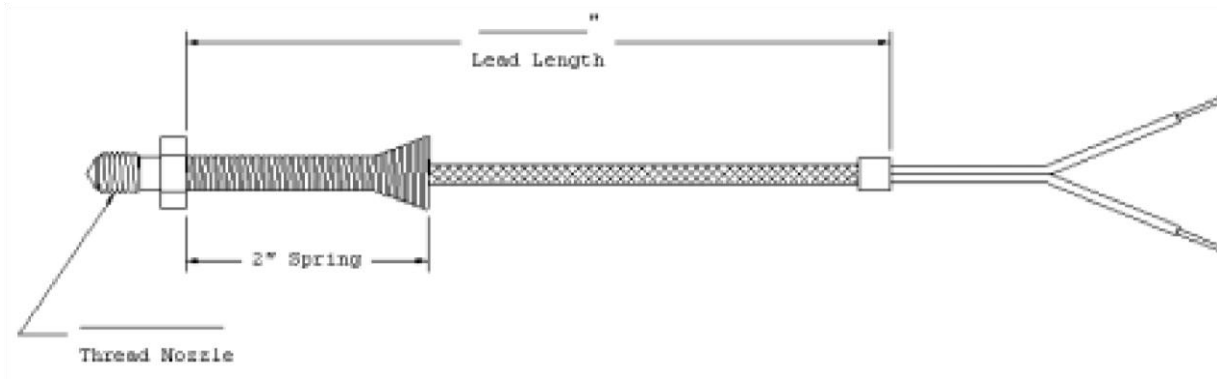
Pad Mount Sensor: The pad mount sensor is another constructed method of measuring surface temperature. The low profile allows this to be placed between components for sensing temperature. The pads can be made using rigid or flexible material. Be sure to specify pad dimensions.



Hose Clamp Sensor: A hose clamp thermocouple is used to measure the temperature of a pipe or tube. There are various methods of attaching leads to the hose clamp. The most common practice is to silver solder the leads directly to the hose clamp. Other options are available.

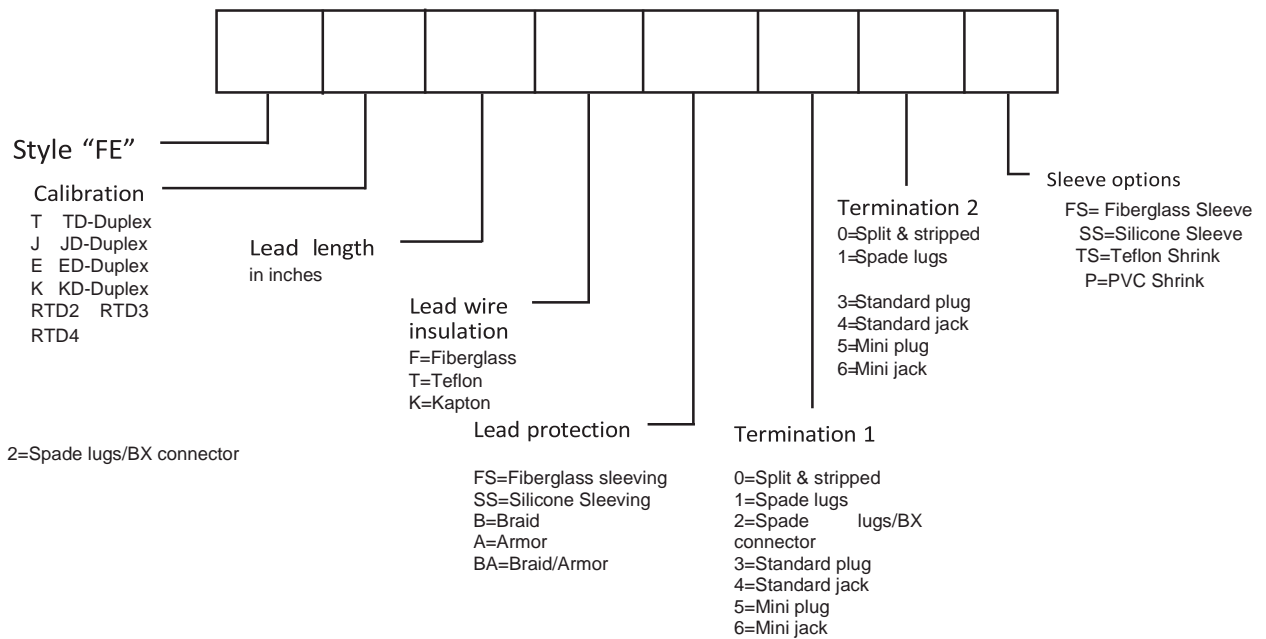
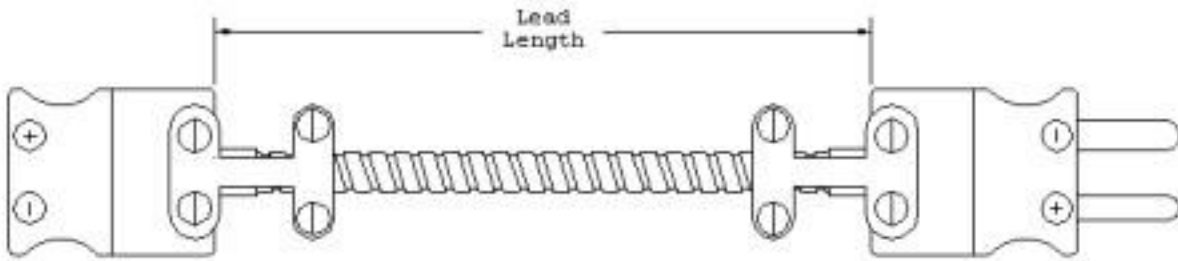


Non-Immersion Nozzle Thermocouple: The non-immersion nozzle style is typically used to measure the temperature of the nozzle. The rotating bolt, when tightened, seats the tip against the process. The tip is not in the plastic flow. This type of construction can be used in numerous other applications. A 1/4-28 bolt is the most common size used. Other sizes are available.

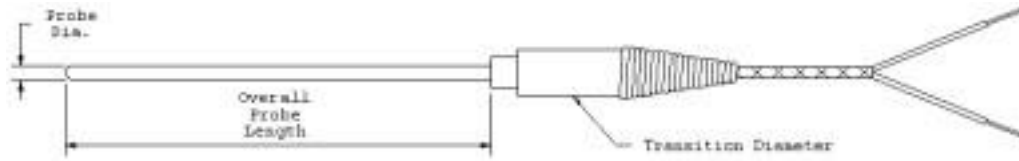


Flexible Extension Thermocouple

Extension: The flexible extension allows for connecting and disconnecting in accessible areas. These are suitable when long leads are required. All types of mating connectors can be attached.

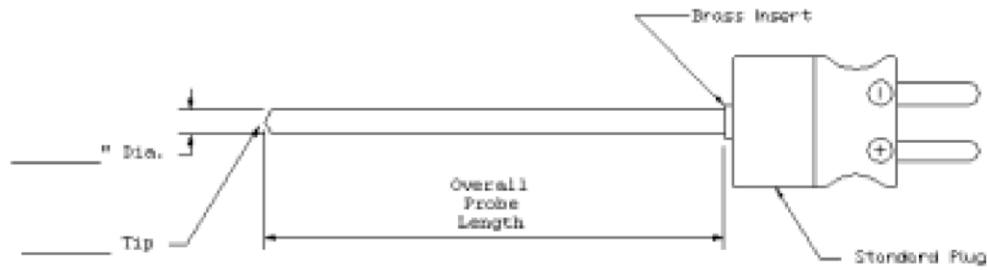


Mineral Insulated RTD: Due to their insulation properties, mineral insulated RTD assemblies are durable, fast-responding sensors. Other attractive features include the ability to tolerate higher temperatures, thermal shock resistance, flexibility and moisture-proofing.



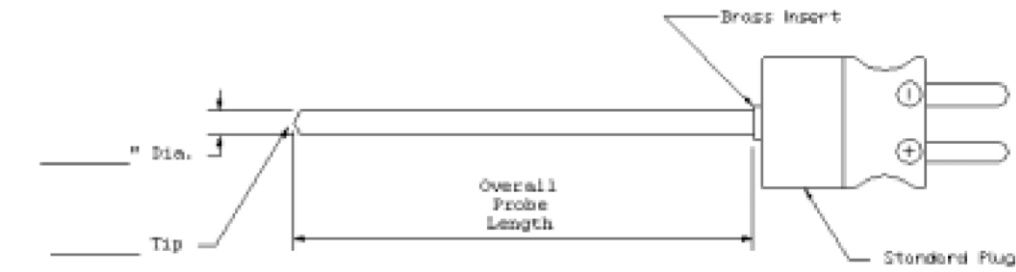
Style "MR"													Transition Fill E=Epoxy C=Cement
RTD Code RTD2=Two wire RTD3=Three wire RTD4=Four wire RTDD2=Dual two-wire RTDD3=Dual three-wire Note: Dual RTD's available in 3/16" diameter probe and larger													Optional Transition Spring Diameter S=Spring Relief Standard Spring SP=Special Spring Required A=.250 B=.312 C=.375
Probe Diameter & Sheath Material .125, .188, .156, .188, .250, .312, .375 A=304SS B=316SS													Termination 0=Split & Stripped 1=Spade Lugs 2=Spade Lugs/BX Connector 3=Standard Plug 4=Standard Jack 5=Mini Plug 6=Mini Jack For Additional Terminations, Refer to Options Page of the Catalog
Probe Mount Length													Lead Wire Insulation F=Fiberglass T=Teflon K=Kapton
Probe Mount Length In Fraction													Lead Protection FS=Fiberglass Sleeving SS=Silicone Sleeving B=Braid A=Armor BA=Braid/Armor
	Tip & Junction UD UR UF EJ=Exposed Junction OF=Open End Flush Tip												Lead Length In Inches

MI with Connector: Mineral insulated cable terminated with plug or jack connector. The probe is easily installed and can be bent.



<p>MT</p> <p>Calibration T TD-Duplex J JD-Duplex E ED-Duplex K KD-Duplex</p> <p>Probe Diameter & Sheath Material</p> <table border="0"> <tr> <td>.020</td> <td>.062</td> <td>.156</td> </tr> <tr> <td>.032</td> <td>.078</td> <td>.188</td> </tr> <tr> <td>.039</td> <td>.098</td> <td>.250</td> </tr> <tr> <td>.040</td> <td>.118</td> <td>.312</td> </tr> <tr> <td>.059</td> <td>.125</td> <td>.375</td> </tr> </table> <p>A=304 SS B=316 SS C=I600 D=Hastelloy</p>	.020	.062	.156	.032	.078	.188	.039	.098	.250	.040	.118	.312	.059	.125	.375	<p>Probe Mount Length</p> <p>In Fraction</p>	<p>Termination 1=Plug w/ Braze Insert 2=Plug w/ Compression Bracket 3=Jack w/ Braze Insert 4=Jack w/ Compression Bracket 5=Mini Plug w/ Braze Insert 6=Mini Plug w/ Compression Bracket 7=Mini Jack w/ Braze Insert 8=Mini Jack w/ Compression Bracket</p> <p>Tip & Junction GD GR GF UD UR UF EJ=Exposed Junction OF=Open End Flush Tip</p>	<p>Plug Fill R=RTV E=Epoxy</p>
.020	.062	.156																
.032	.078	.188																
.039	.098	.250																
.040	.118	.312																
.059	.125	.375																

MI Cable with Connector RTD: Mineral insulated cable terminated with plug or jack connector. The probe is easily installed and can be formed.



RTD Code

RTD2=Two wire
 RTD3=Three wire
 RTD4=Four wire
 RTDD2=Dual two-wire
 RTDD3=Dual three-wire
 Note: Dual RTD's available in 3/16" diameter probe and larger

Probe Diameter & Sheath Material

.118 .250
 .125 .312
 .156 .375
 .188 A=304 SS
 B=316 SS

Probe Mount Length In Inches

Probe Mount Length In Fraction

Tip & Junction

UD UR UF
 EJ=Exposed Junction
 OF=Open End Flush Tip

Plug Fill

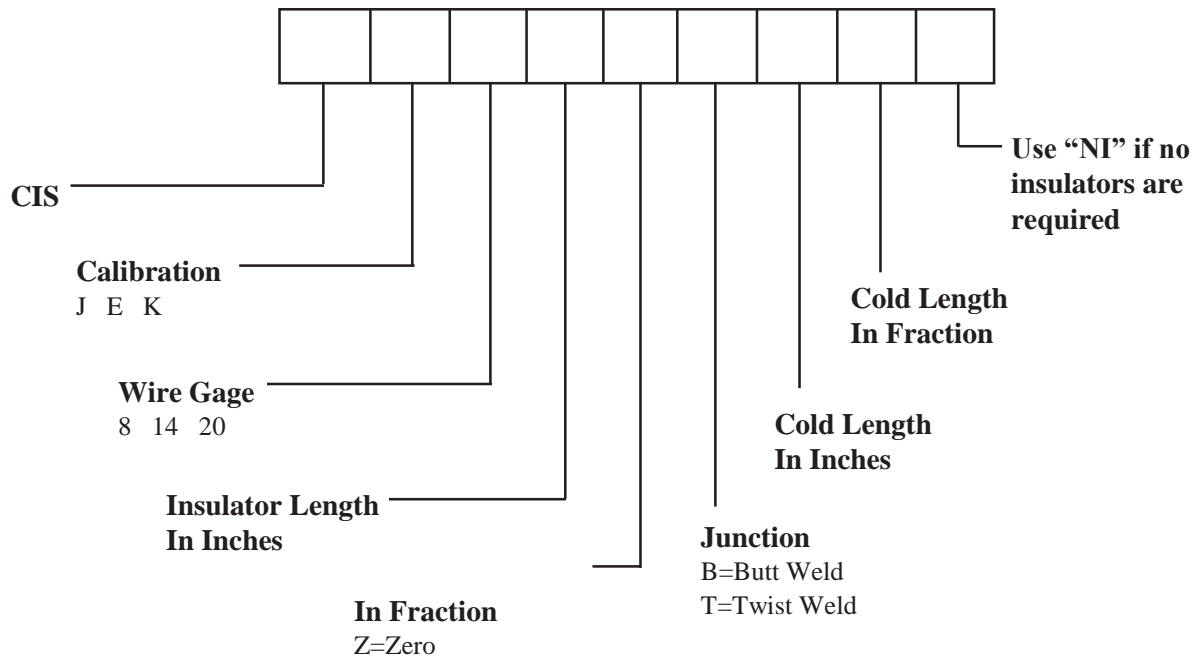
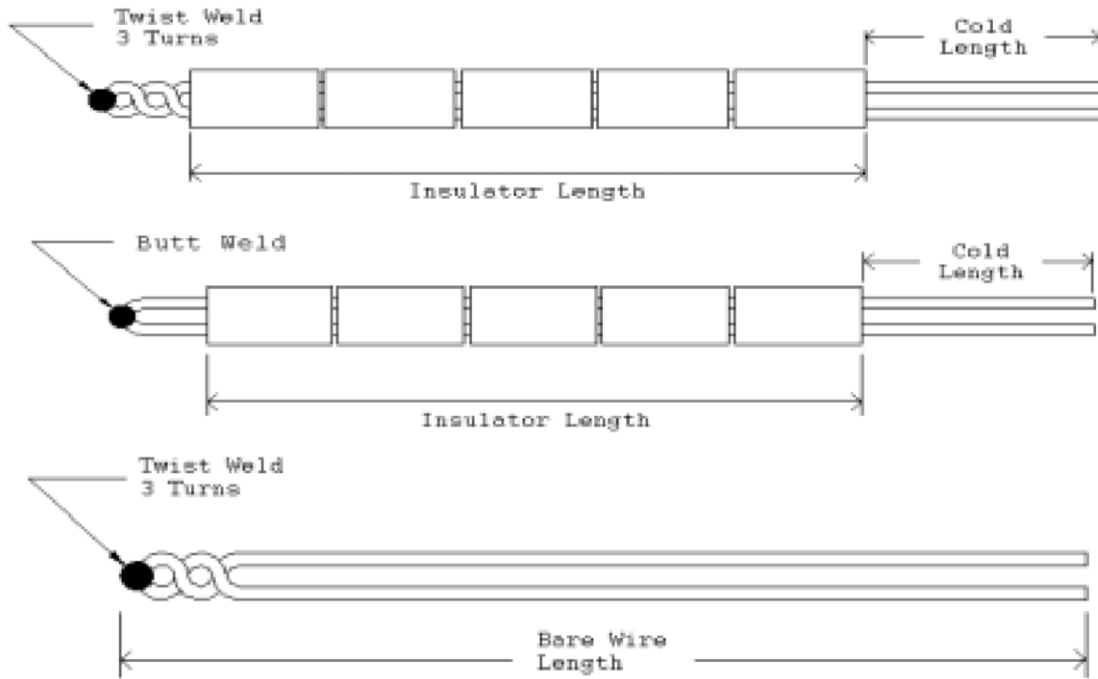
R=RTV
 E=Epoxy

Termination

1=2 Pin Plug/Braze Insert
 2=2 Pin Plug/Compression Bracket
 3=3 Pin Plug/Braze Insert
 4=3 Pin Plug/Compression Bracket
 5=2 Pin Jack/Braze Insert
 6=2 Pin Jack/Compression Bracket
 7=3 Pin Jack/Braze Insert
 8=3 Pin Jack/Compression Bracket
 9=Mini 2 Pin Plug/Braze Insert
 10=Mini 3 Pin Plug/Braze Insert
 11=Mini 2 Pin Jack/Braze Insert
 12=Mini 3 Pin Jack/Braze Insert

MTR

Solid Conductor/Ceramic Insulator Thermocouple



wire
RTDD3=Dual threewire
Note: Dual RTD's
available in 3/16"
diameter probe and
larger

**Probe Diameter &
Sheath Material**
.118 .250 A=304 SS
.125 .312 B=316 SS
.188 .375

3S=1/2" SS
4B=3/4" Brass
4S=3/4" SS
5B=1" Brass
5S=1" SS

B=3/4" NPT Single Ended SS
C=1/8" NPT Compression Fitting SS
D=Flange-Specify

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