

Plastics Industry Thermocouples

Type J, K, and T Thermocouples

- Grounded
- Ungrounded

Sheath Materials

- 304 Stainless Steel
- 316 Stainless Steel

Junction Fittings

- Crimped
- Single Slot Spring Loaded Bayonet Fitting

Termination Options

- T/C Wire with Stripped Leads
- Spade Lugs
- Thermocouple Plugs

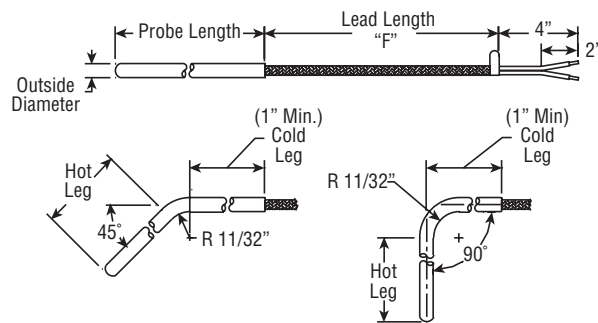


Description

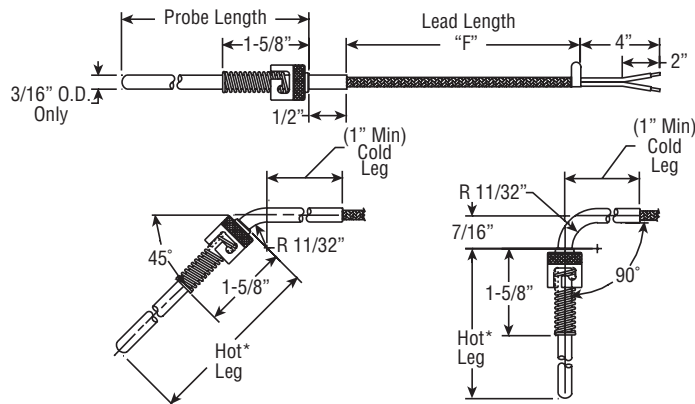
This style of thermocouple is commonly used on plastic extruders and injection molding machines. They are also commonly used on presses such as those used in the rubber industry.

The hollow tube thermocouple typically has a spring loaded bayonet cap. When properly installed, the spring enables sensing tip to press against the bottom of the probe area for accurate temperature readings. A wide selection of sensors, lead wire termination options and accessories is available from stock or can quickly be manufactured to customer specifications.

Dimensions (Crimped Junction)



Dimensions (Quick Detach Style, 3/16 Diameter)



*NOTE: Hot leg minimum dimension is 2 inches.

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Ordering Information

CODE	Thermocouple Alloy	Min Temp. °F	Max Temp °F
JP	Iron/Constantan	32	700
KP	Chromel/Alumel	32	1600
TP	Copper/Constantan	-328	400
CODE	Number of Elements		
S	One (Single)		
D	Two (Dual)		
CODE	Sheath Diameter		
B	1/8" (Not Available in Dual Elements)		
C	3/16"		
E	1/4"		
CODE	Sheath Material		
2	304 Stainless Steel = General Purpose, Good Corrosion Resistance		
3	316 Stainless Steel = Superior Corrosion Resistance		
CODE	Junction	Note: Round Tip Standard	
G	Grounded		
U	Ungrounded		
CODE	PROBE LENGTH (Max. Length 120") (On Bent T/Cs PROBE LENGTH = Hot Leg + Cold Leg)		
XXX	XXX = Lead Length in Inches		
CODE	Fraction of an Inch Probe Lengths**		
A	None		
B	1/4"		
C	1/2"		
E	3/4"		
CODE	Sheath Bend Angle and Length**		
000	None		
2XX	45° Sheath Bend XX = Length in inches from probe tip to start of bend (Hot Leg).		
3XX	90° Sheath Bend XX = Length in inches from probe tip to start of bend (Hot Leg).		
CODE	Junction Fitting		
J2	Crimped		
J9	7/16" ID Single slot spring loaded bayonet fitting (3/16" Diameter Sheath Only)		
CODE	Lead-Wire Type	Thermocouple Types	
NA	None	J, K, T	
F1	Fiberglass insulation - Solid conductor	J, K, T	
F2	Fiberglass insulation - Solid conductor - flexible armor	J, K, T	
F3	Fiberglass insulation - Solid conductor - stainless steel overbraid	J, K	
F4	Fiberglass insulation - Stranded conductor	J, K	
F5	Fiberglass insulation - Stranded conductor	J, K	
F6	Fiberglass insulation - Stranded conductor - stainless steel overbraid	J	
T1	Teflon insulation - Solid conductor	J, K, T	
T2	Teflon insulation - Solid conductor - flexible armor	J, K, T	
T3	Teflon insulation - Stranded conductor	J, K	
T4	Teflon insulation - Stranded conductor - flexible armor	J, K	
CODE	Lead Length "F" Dimension		
XXX	XXX = Lead Length in Inches		
CODE	Termination Options	Thermocouple Types	
01	None	J, K, T	
02	Leads stripped 2 inches	J, K, T	
03	Leads stripped 2 inches with spade lugs	J, K, T	
04	Leads stripped 2" with 1/2" NPT Bx Connector	J, K, T	
05	Leads stripped 2" with Spade Lugs & 1/2" NPT Bx Connector	J, K, T	
06	Standard thermocouple plug*	J, K, T	
07	Standard thermocouple jack*	J, K, T	
08	Standard thermocouple plug with mating connector*	J, K, T	
09	Standard thermocouple jack with mating connector*	J, K, T	
10	Miniature thermocouple plug*	J, K	
11	Miniature thermocouple jack*	J, K	
12	Miniature thermocouple plug with mating connector	J, K	
13	Miniature thermocouple jack with mating connector	J, K	

*Plugs & jacks 500° maximum temperatures, Single element thermocouples only

JP S C 3 U- 012 A 000- J9 T3 036 02 Typical Model Number

**Under 10" probe lengths can be combined to obtain fractional sizes. Examples: 29C = 45°, 9-1/2"; 36E = 90°, 6-3/4"