

Temperature Sensors

Thermocouples

Manufactured to recognized agency standards, Watlow thermocouple temperature sensors deliver reliable, accurate temperature measurement.

Stock Type J thermocouple sensor assemblies meet the most popular demands of the plastics processing industry.

Made-to-order and non-stock ANSI Type E, K and T also available.

Availability

All stock thermocouple sensors listed in the following pages are available for same day shipment.

Made-to-Order

If stock units do not meet your application needs, Watlow Richmond can custom manufacture to your special requirements. Consult your authorized Watlow Plastics Distributor for price and shipment details.



Temperature Sensors

Thermocouples

Spring Adjustable Style

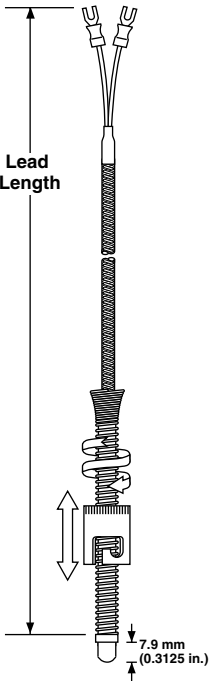
Adjustable spring thermocouple fits a large range of hole depths. Bends to any angle for easy installation.

- **Sheath:** 304 stainless steel
- **Spring:** 305 mm (12 in.) long
6.35 mm (0.25 in.) O.D.

- **Junction:** grounded
- **Leads:** 20 gauge stranded fiberglass insulation with stainless steel braid

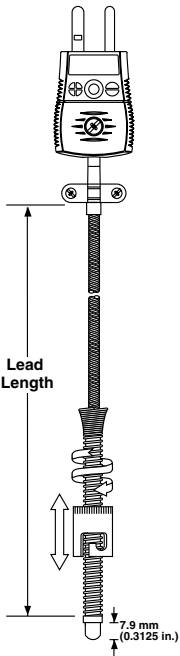
Termination Style: 64 mm (2.5 in.) split leads with spade lugs

Type	Lead Length		Watlow Code No.
	mm	(in.)	
J	609.6	(24)	80DJBGB024B
J	914.4	(36)	80DJBGB036B
J	1219.2	(48)	80DJBGB048B
J	1524.0	(60)	80DJBGB060B
J	1828.8	(72)	80DJBGB072B
J	2438.4	(96)	80DJBGB096B
J	3048.0	(120)	80DJBGB120B
J	3657.6	(144)	80DJBGB144B



Termination Style: Plug

Type	Lead Length		Watlow Code No.
	mm	(in.)	
J	609.6	(24)	80DJBGB024D
J	914.4	(36)	80DJBGB036D
J	1219.2	(48)	80DJBGB048D
J	1524.0	(60)	80DJBGB060D
J	1828.8	(72)	80DJBGB072D
J	2438.4	(96)	80DJBGB096D
J	3048.0	(120)	80DJBGB120D
J	3657.6	(144)	80DJBGB144D



Temperature Sensors

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Adjustable Armor Style

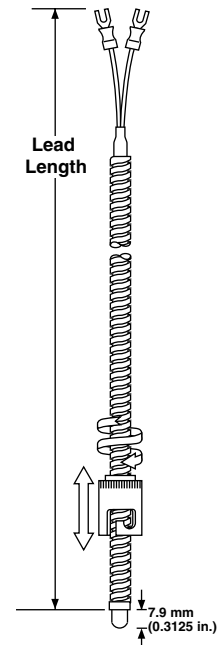
Adjustable thermocouple fits a large range of hole depths. Bends to any angle. Stainless steel hose offers additional lead protection in demanding applications.

- **Junction:** grounded
- **Leads:** 20 gauge stranded fiberglass insulation with stainless steel hose

- **Sheath:** 304 stainless steel
- **Aarmor:** 6.7 mm (0.265 in.) O.D.

Termination Style: 64 mm (2.5 in.) split leads with spade lugs

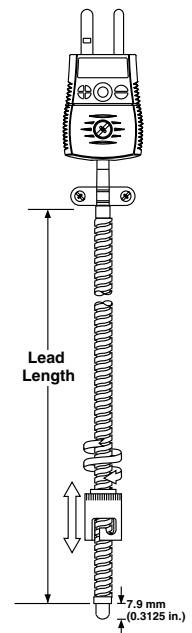
Type	Lead Length mm (in.)	Watlow Code No.
J	609.6 (24)	81DJCGB024B
J	914.4 (36)	81DJCGB036B
J	1219.2 (48)	81DJCGB048B
J	1524.0 (60)	81DJCGB060B
J	1828.8 (72)	81DJCGB072B
J	2438.4 (96)	81DJCGB096B
J	3048.0 (120)	81DJCGB120B
J	3657.6 (144)	81DJCGB144B



Injection Molding
Temperature Sensors

Termination Style: Plug

Type	Lead Length mm (in.)	Watlow Code No.
J	609.6 (24)	81DJCGB024D
J	914.4 (36)	81DJCGB036D
J	1219.2 (48)	81DJCGB048D
J	1524.0 (60)	81DJCGB060D
J	1828.8 (72)	81DJCGB072D
J	2438.4 (96)	81DJCGB096D
J	3048.0 (120)	81DJCGB120D
J	3657.6 (144)	81DJCGB144D



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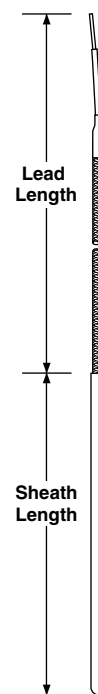
Rigid Sheath Style

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

- **Sheath:** 304 stainless steel
4.76 mm (0.1875 in.) diameter
25.4 or 76.2 mm (1 or 3 in.) long

- **Junction:** grounded
- **Terminations:** standard, 64 mm (2.5 in.) split leads
- **Leads:** 20 gauge stranded fiberglass insulation with stainless steel braid

Type	Sheath Length		Lead Length		Watlow Code No.
	mm	(in.)	mm	(in.)	
J	25.4	(1)	1219.2	(48)	82DJBGB048A
J	25.4	(1)	1828.8	(72)	82DJBGB072A
J	76.2	(3)	1219.2	(48)	82DJBGF048A
J	76.2	(3)	1828.8	(72)	82DJBGF072A



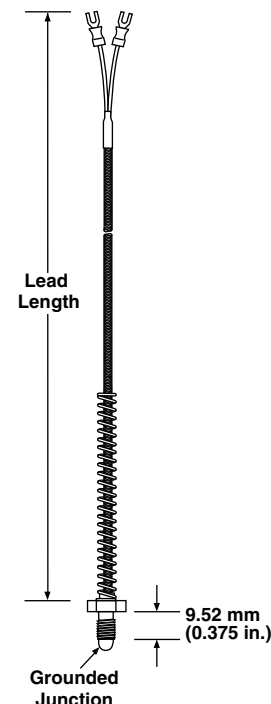
Nozzle Style

The nozzle thermocouple's short installation depth and low profile makes it well suited to measure the temperature of thin platens.

- **Bolt:** 304 stainless steel
6.35 mm (0.25 in.) X 28 UNF
9.52 mm (0.375 in.) thread depth

- **Junction:** grounded
- **Termination:** 64 mm (2.5 in.) split leads with spade lugs
- **Leads:** 20 gauge stranded fiberglass insulation with stainless steel overbraid

Type	Lead Length		Watlow Code No.
	mm	(in.)	
J	1219.2	(48)	87XJBGA048B
J	1828.8	(72)	87XJBGA072B
J	3657.6	(144)	87XJBGA144B



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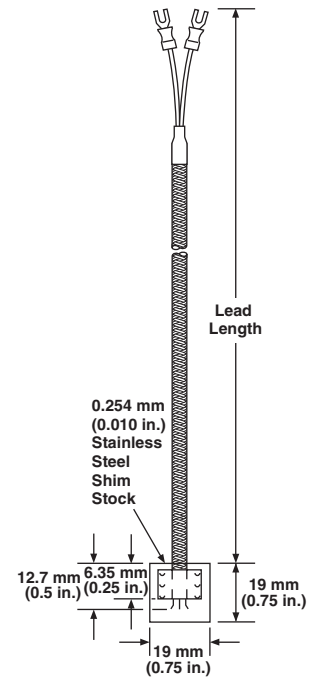
Stainless Steel Shim Style

The shim stock's low profile permits placement between components for measuring surface temperature. Available in other shim sizes, contact your authorized Watlow Distributor.

- **Shim Size:** 19.05 X 19.05 X 254 mm (0.75 X .75 X 0.010 in.), 304 SS

- **Junction:** grounded
- **Termination:** 64 mm (2.5 in.) split leads with spade lugs
- **Leads:** 24 gauge stranded fiberglass insulation with stainless steel overbraid

Type	Lead Length mm (in.)	Watlow Code No.
J	1219.2 (48)	89XJSGA048B
J	1828.8 (72)	89XJSGA072B



Newbury Nozzle Style

A direct replacement for OEM Type J nozzle thermocouples held in place with a set screw. The sheath is 3.18 mm (0.125 in.) diameter with 90 degree bend and strain relief.

- **Type J**
- **Junction:** grounded
- **Termination:** standard, 64 mm (2.5 in.) split leads
- **Leads:** 24 gauge solid fiberglass insulation with stainless steel overbraid

Lead Length mm (in.)	Watlow Code No.
1219.2 (48)	91J2A23D
1524.0 (60)	91J2A23E

