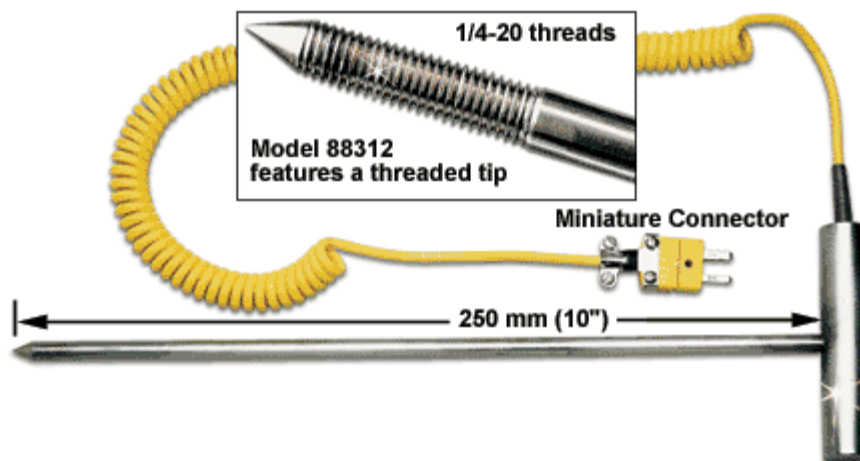


## Specialty Thermocouple Probes

TC / TJ

**Penetration Probe**

Penetration and machine threaded-tip probes with new Tee-style 304 stainless steel handle are ideal for industry use or frozen food applications. The probe's 304 SS thick wall tube ensures strong and rigid performance. Each probe comes with .3 m (1') of RSC cable that stretches to 1.5 m (5') and a male miniature connector. The probe features a 6.4 mm (0.25") dia., with a 250 mm (10") immersion length from the tip to handle. The handle is 75 mm (3") in length. Maximum temp rating: 480°C (900°F) for type K, 425°C (800°F) for type E.



88312(\*)  
Threaded Tip

88311(\*)  
Penetration Tip

\*Specify calibration: K or E

**Pipe Plug Probe**

This high pressure thermocouple plug sensor is ideal for vessel applications, pressurized containers and applications requiring mounted NPT security for fixed readings. Its 304 SS sheath has a 6.4 mm (0.25") dia. probe that extends 1/2" from a 1/4" NPT pipe plug, with 1.8 m (6') of 20 AWG fiberglass insulated stranded thermocouple grade wire with stainless steel overbraiding and either stripped leads or a miniature male connector.



TC-(\*)-NPT-G-72  
Grounded Junction  
with Stripped Leads

TC-(\*)-NPT-U-72  
Ungrounded Junction  
with Stripped Leads

\*Specify calibration: J, K, T or E

\*\* Other lengths available, consult Sales Department  
For exposed junction, replace **G** with **E** in model number, same price  
For subminiature connector, add suffix "**-SMP**" to model number.

For grounded or ungrounded junctions, pressure rating is 2500 PSI. The hex flats are 0.560" on the flats; 16.1 mm (0.635") between points. Hex flats width is 5.8 mm (0.23"). Maximum temp rating: Types J, K, E: 480°C (900°F); Type T: 370°C (700°F).

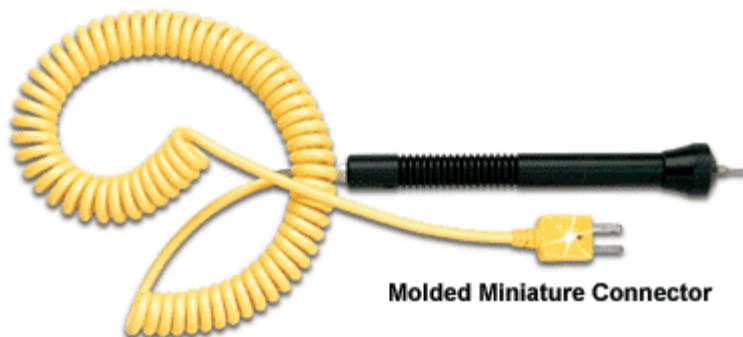
For low pressure applications grounded junctions may be replaced with an exposed junctions for faster response time. Prices are the same for grounded and exposed junctions. Simply replace "**G**" with "**E**" in model number.



**Model 88310(\*)**  
 \*Specify calibration: K or E

**Low-Profile Penetration Probe**

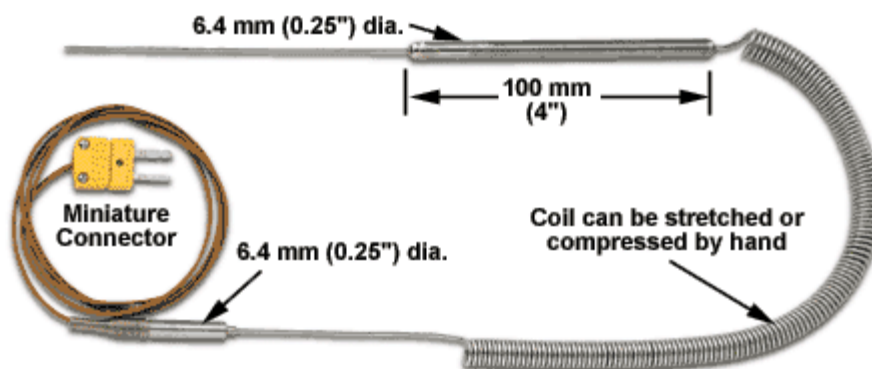
This probe features a low-profile hypodermic tip and convenient handle for short depth penetration of soft materials such as rubber. A grounded junction, 300 mm (1') of retractable cable (which stretches to 1.5 m (5')) and a subminiature male connector are standard. The handle is rated to 162°C (325°F).



**Molded Miniature Connector**

**Autoclave Probe**

This 1.6 mm (0.063") diameter 304 SS probe, with stainless steel transition junction, is perfect for the food industry, steam washdown applications or general heavy duty use. It features 3.3 m (11') of 1.6 mm (0.062") mineral insulated coiled cable, 0.9 m (3') of PFA insulated thermocouple grade wire and a male subminiature connector.



**TJ36-(\*)-116U-6-ACL**  
 Ungrounded Junction

**TJ36-(\*)-116G-6-ACL**  
 Grounded Junction

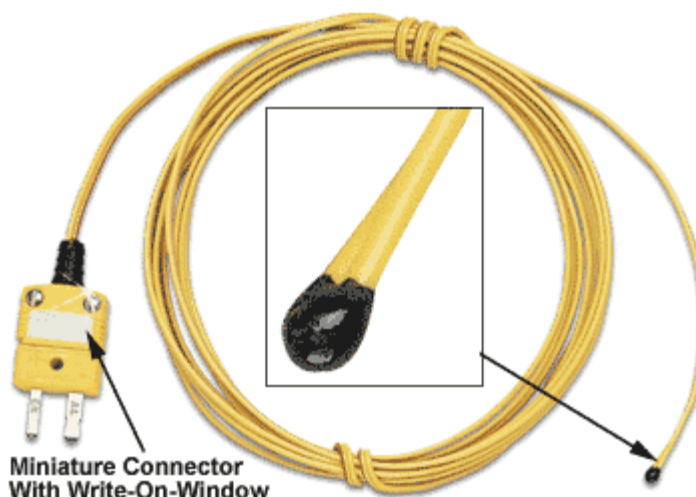
\*Specify calibration: J, K, T or E

**Epoxy Coated Tip Thermocouple**

Purchase PVC insulated thermocouples with epoxy sealed junction tip either singly or in a pack of five. Supplied in 4.5 m (15') lengths† per sensor with subminiature male window connector and 24 gage solid polyvinyl rip-cord wire. Maximum Temp rating of 105°C (221°F).

†Other lengths available, consult Sales Department

All probes were designed for industrial, laboratory, manufacturing and chemical research only. **They are not intended for medicinal use, or on humans.** Newport Electronics, Inc. assumes no responsibility if these products are used for medicinal purposes, or on humans, or are misused in any way.



**Miniature Connector With Write-On-Window**

**TC-PVC-(\*)-24-180**  
 Individual Probe

**5TC-PVC-(\*)-24-180**  
 pkg of 5

\*Specify calibration: J, K, T or E

<b>Product Selection</b> (Specify Model Number)		
<b>Part Number</b>	<b>Description</b>	<b>Qty.</b>
<b>Penetration Probes</b>		
88311K	Penetration tip probe, type K	
88311E	Penetration tip probe, type E	
88312K	Penetration probe with threaded tip, type K	
88312E	Penetration probe with threaded tip, type E	
<b>Pipe Plug Probes</b>		
TC-J-NPT-G-72	Pipe plug probe, type J, grounded junction	
TC-J-NPT-U-72	Pipe plug probe, type J, ungrounded junction	
TC-K-NPT-G-72	Pipe plug probe, type K, grounded junction	
TC-K-NPT-U-72	Pipe plug probe, type K, ungrounded junction	
TC-E-NPT-G-72	Pipe plug probe, type E, grounded junction	
TC-E-NPT-U-72	Pipe plug probe, type E, ungrounded junction	
TC-T-NPT-G-72	Pipe plug probe, type T, grounded junction	
TC-T-NPT-U-72	Pipe plug probe, type T, ungrounded junction	
<b>Low Profile Penetration Probe</b>		
88310K	Low profile penetration probe, type K	
88310E	Low profile penetration probe, type E	
<b>Autoclave Probe</b>		
TJ36-J-116G-6-ACL	Autoclave probe, type J, grounded junction	
TJ36-J-116U-6-ACL	Autoclave probe, type J, ungrounded junction	
TJ36-K-116G-6-ACL	Autoclave probe, type K, grounded junction	
TJ36-K-116U-6-ACL	Autoclave probe, type K, ungrounded junction	
TJ36-E-116G-6-ACL	Autoclave probe, type E, grounded junction	

TJ36-E-116U-6-ACL	Autoclave probe, type E, ungrounded junction
TJ36-T-116G-6-ACL	Autoclave probe, type T, grounded junction
TJ36-T-116U-6-ACL	Autoclave probe, type T, ungrounded junction

### Epoxy Coated Tip Thermocouple

TC-PVC-J-24-180	Epoxy coated tip thermocouple, type J
5TC-PVC-J-24-180	Epoxy coated tip thermocouple, type J, pkg of 5
TC-PVC-K-24-180	Epoxy coated tip thermocouple, type K
5TC-PVC-K-24-180	Epoxy coated tip thermocouple, type K, pkg of 5
TC-PVC-E-24-180	Epoxy coated tip thermocouple, type E
5TC-PVC-E-24-180	Epoxy coated tip thermocouple, type E, pkg of 5
TC-PVC-T-24-180	Epoxy coated tip thermocouple, type T
5TC-PVC-T-24-180	Epoxy coated tip thermocouple, type T, pkg of 5



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