

# Battery TESTING

Elevate battery testing with Temprel's advanced thermocouples. Accurate across temperatures, rapid in response, and built to last, they endure stress, vibrations, and chemicals. Our stable, integrated design ensures lasting precision, easy-to-use, plug & play options. Count on EMI-resistant reliability for intricate electronics. Choose Temprel for accurate, enduring, and efficient solutions.

## Our thermocouple products offer:

- ✓ Unparalleled Accuracy
- ✓ Robust Construction
- ✓ Reliable Performance
- ✓ Customization Options
- ✓ Easy-to-Use, Plug & Play



[www.temprel.com](http://www.temprel.com)



1-800-582-5098



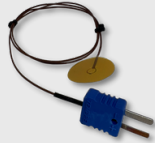
206 Industrial Parkway  
Boyer City, MI 49712

*"Empowering people with test data to inspire innovation"*



Temprel, Inc. has been manufacturing temperature sensors and related equipment in Boyne City, MI for over 50 years. Although we offer a complete line, here are the most commonly used products in this industry. Please contact us or visit [www.temprel.com](http://www.temprel.com) for a more comprehensive product overview.

## Thermocouples



### T52 - Adhesive Patch Thermocouples

A flexible insulated thermocouple with multiple options at the sensing tip.

**Connectors:** Standard Male, Mini Male, Stripped Leads

**Wire Gauge:** 36, 30, 24 Gauge

**Wire Insulation:** FEP, PFA, PVC, Fiberglass & High temp Fiberglass, Polyimide

**Termination Options:** Exposed, Isolated, Skin Temp Adhesive Patch, Ring Terminal, Magnet

### T21 - Probe Thermocouples

Quick disconnect thermocouple with compacted MgO insulation employing a glass-filled, nylon connector directly on the sheath

**Connectors:** Mini Plug, Mini Jack, Standard Plug, Standard Jack

**Junction Type:** Exposed, Grounded, Ungrounded, Shielded

**Probe Diameter:** 0.020" - 0.250"

**Probe Material:** Inconel, Stainless Steel (304, 310, 316) Hastelloy

## Pre-made Extensions: Ready to Plug & Play, Easy-To-Use

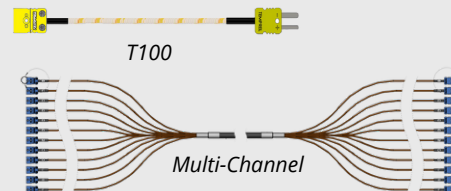
### T100 & Multi-Channel Harnesses

An insulated wire thermocouple extension harness. T100 is one extension, multi-channel harness is a bundle (2+)

**Connectors:** Mini Plug, Mini Jack, Standard Plug, Standard Jack, Stripped Leads

**Wire Gauge:** 36, 30, 24 Gauge

**Wire Insulation:** FEP, PFA, PVC, Fiberglass & High temp Fiberglass, Polyimide



	Operating Range	Special Limits of Error	Each Conductor	ANSI Color Coding
<b>T</b>	0 - 350°C (32 - 660°F) -200 - 0°C (-325 - 32°F)	± .5 °C or ± .4% of Reading ± 1.0 °C or ± 1.5% of Reading	Pos. Blue Neg. Red	Blue
<b>K</b>	0 - 1250°C (32 - 2280°F) -200 - 0°C (-325 - 32°F)	± 1.1 °C or ± .4% of Reading ± 2.2 °C or ± .2% of Reading	Pos. Yellow Neg. Red	Yellow
<b>E</b>	0 - 900°C (32 - 1650°F) -200 - 0°C (-200 - 32°F)	± 1.0 °C or ± .4% of Reading ± 1.7 °C or ± .1% of Reading	Pos. Purple Neg. Red	Purple
<b>J</b>	0 - 750°C (32 - 1380°F)	± 1.1 °C or ± .4% of Reading	Pos. White Neg. Red	Black

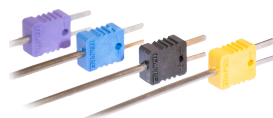
## Connectors

Multiple options available including:

**Miniature Jack & Plugs**

**Standard Jack & Plugs**

**Standard & Custom Panels**



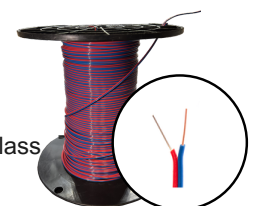
## Wire

Sold by the foot

**Special Limits of Error (SLE)**

**Wire Insulation:** FEP, PFA, PVC, Fiberglass & High temp Fiberglass, Polyimide

**Wire Gauge:** 36-20 Gauge



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