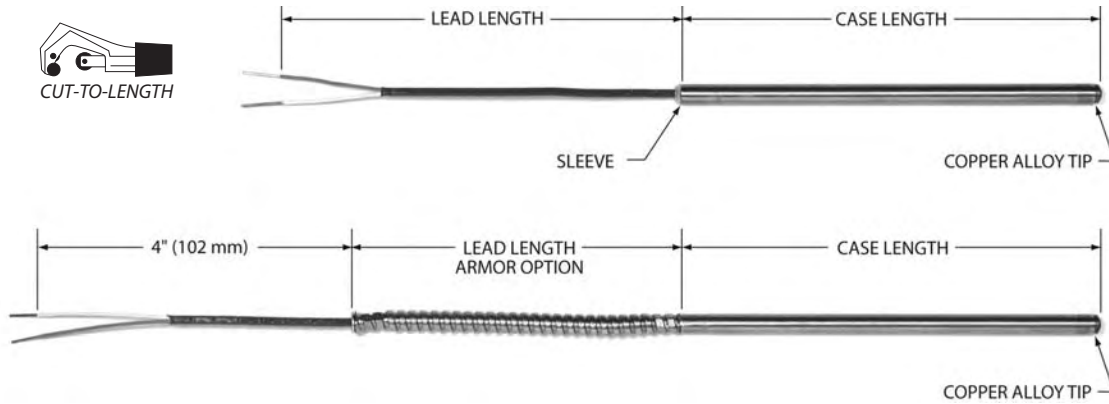


Tip-sensitive Thermocouples



PROBES

Overview

The probe sensing tip is constructed of copper alloy which is twenty times more conductive than stainless steel. The sensors react more quickly to changes and indicate tip temperature instead of stem temperature. The result is better accuracy in thermowells, bearings, and other installations. Minco recommends 0.250" diameter probes for use in thermowells.

- Copper alloy tip for fast response
- Accurate sensing to 260°C (500°F)
- Non-armor models can be user-shortened

Specifications

Temperature range: -184 to 260°C (-300 to 500°F).

Case: Stainless steel with copper alloy tip.
 Minimum case length: 2.5" (63.5 mm).
 Maximum case length: 48" (1220 mm), longer on special order.

Leads: Solid thermocouple wire, AWG 20 (except AWG 24 on model TC355). Specify PTFE insulation, stainless steel overbraid, or stainless steel armor.

Time constant: Typical value in moving water:
 Grounded junction: 1.5 seconds.
 Ungrounded junction: 7 seconds.

Pressure rating: 100 psi (6.9 bar).

Insulation resistance: 10 megohms minimum at 100 VDC, leads to case, ungrounded junctions only.

Vibration: Withstands 10 to 2000 Hz at 20 G's minimum per MIL-STD-202, Method 204, Test Condition D.

Shock: Withstands 100 G's min. sine wave shock of 8 milliseconds duration.

Model numbers

	Model for probe diameter:		
	0.188" (4.8 mm)	0.215" (5.5 mm)	0.250" (6.4 mm)
Single junction	TC354	TC356	TC358
Dual junction	TC355	TC357	TC359

Specification and order options

TC356	Model number from table
T	Junction type: E = Chromel-Constantan J = Iron-Constantan K = Chromel-Alumel T = Copper-Constantan
G	Junction grounding: G = Grounded U = Ungrounded
200	Case length: Specify in 0.1" increments: Ex: 200 = 20.0 inches
S	Covering over leadwires: T = PTFE only G = Glass braid only S = Stainless steel overbraid A = Stainless steel armor
24	Lead length in inches
TC356TG200S24 = Sample part number	

Specifications subject to change