

Thermocouple Wire Color Code & Specifications (United States, Canada & Mexico)



| ANSI Code | Color Code | Positive (+) Lead | Negative (-) Lead | Temperature Range | Initial Calibration Tolerances | |
|-----------|------------|--|--|----------------------|------------------------------------|-----------------------------------|
| | | | | | Standard °C (whichever is greater) | Special °C (whichever is greater) |
| J | | Iron | Constantan (45% Nickel, 55% Copper) | 32-1382°F (0-750°C) | ±2.2°C or ±0.75% | ±1.1°C or ±0.4% |
| K | | Chromel® (90% Nickel, 10% Chromium) | Alumel (95% Nickel, 2% Aluminum, 2% Manganese, 1% Silicon) | 32-2282°F (0-1250°C) | ±2.2°C or ±0.75% | ±1.1°C or ±0.4% |
| E | | Chromel® (90% Nickel, 10% Chromium) | Constantan (45% Nickel, 55% Copper) | 32-1652°F (0-900°C) | ±1.7°C or ±0.5% | ±1.0°C or ±0.4% |
| T | | Copper | Constantan (45% Nickel, 55% Copper) | 32-662°F (0-350°C) | ±1°C or ±0.75% | ±.5°C or ±0.4% |
| N | | Nicrosil (84.6% Nickel, 14% Chromium, 1.4% Silicon) | Nisil (95.6% Nickel, 4.4 % Silicon) | 32-2282°F (0-1250°C) | ±2.2°C or ±0.75% | ±1.1°C or ±0.4% |