

Thermocouple Wire

Thermo Conductor Services specializes in providing the highest-quality thermocouple conductor.

EMF output, or electromotive force, is one of the critical characteristics of thermocouple wire. Our conductor is manufactured to some of the tightest EMF specifications in the industry. We test and select from different heats to find the conductor that is best for our customers' requirements. And we often blend different heats in stranded constructions, to make a finished product whose EMF output is better than that of the individual heats.

Some suppliers guarantee an EMF match only between the positive and negative legs that they sell together, as a pair. But every reel of thermocouple wire that we supply meets standard EMF tolerances for the individual leg. That means that any reel of our positive wire will match any reel of our negative wire of the same calibration – regardless of when it was purchased.

For our customers, that means savings – through more efficient inventory management and lower scrap rates.

All stranded constructions can be sealed with a silicone compound to provide anticapillary protection.

Click here for lists of our most common [single-end sizes](#) and [stranded constructions](#). Custom constructions are always available.

Call or [email us](#) if you don't see what you need.

Stranded Thermocouple Wire



Bunched Thermocouple Wire



TCS can provide just about any configuration of stranded conductor, in the lengths that you specify.

Solid Thermocouple Wire



TCS stocks round wire sizes ranging from 8 gauge (.128" diameter) to 40 gauge (.0031"); other sizes available upon request.

Thermocouple Alloys

TYPE J	iron & constantan
TYPE K	nickel chromium & nickel aluminum
TYPE T	oxygen-free copper & constantan
TYPE E	nickel chromium & constantan
TYPE N	Nicrosil & Nisil
TYPE RNX/SNX	copper nickel manganese
TYPE BPX	copper manganese



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