

PROHEAT

Industrial Heaters, Sensors & Controls



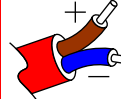

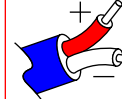

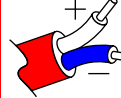
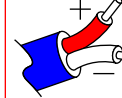

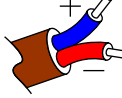
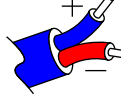











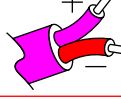
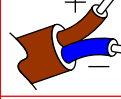

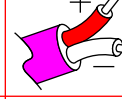
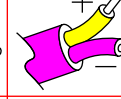





















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Thermocouple Color Codes & Conductor Combinations

HUNDREDS OF
THERMOCOUPLES AND
THOUSANDS OF FEET
OF WIRE
IN STOCK.

| CODE | + LEG | - LEG | CONTINUOUS | SHORT TERM | AMERICAN to ANSI T/C | AMERICAN to ANSI EXTENSION | BRITISH to BS 1843 | GERMAN to DIN 43714 | JAPANESE to JIS C 1610-1981 | FRENCH to NF C 42-323 |
|------|-------|-------|------------|------------|---|--|---|---|---|---|
| | | | | |  |  |  |  |  |  |

| | | | | | | | | | | |
|----------|-------------------------|-------------------------------------|---------------|---------------|--|--|---|---|---|---|
| K | NICKEL-CHROMIUM | NICKEL-ALUMINUM (slightly magnetic) | 32 to +2012 | -292 to +2462 |  |  |  |  |  |  |
| V | COPPER | COPPER-NICKEL | | | | |  | |  |  |
| T | COPPER | COPPER-NICKEL | -301 to -572 | -482 to +752 |  |  |  |  |  |  |
| J | IRON (magnetic) | COPPER-NICKEL | +68 to +1292 | -292 to +1382 |  |  |  |  |  |  |
| E | NICKEL-CHROMIUM | COPPER-NICKEL | 32 to +1472 | - |  |  |  |  |  |  |
| N | NICKEL-CHROMIUM SILICON | NICKEL-SILICON MAGNESIUM | 32 to +2012 | -454 to +2372 |  |  |  | | | |
| R | PLATINUM-13% RHODIUM | PLATINUM | 32 to +1600 | -58 to +3092 | |  |  |  |  |  |
| S | PLATINUM-10% RHODIUM | PLATINUM | 32 to +2822 | -58 to +3092 | |  |  |  |  |  |
| B | PLATINUM-30% RHODIUM | PLATINUM 6% RHODIUM | +212 to +2912 | +122 to +3182 | |  | |  |  | |
| U | COPPER | COPPER-LOW VALUE NICKEL | | | |  |  |  |  |  |

Wide range and most commonly used. ANSI/MC96.1 Type "K" replaced circular 561

Color coded for use as a compensating cable for Type "K" thermocouples. This compensating cable can also be used for Type "T" thermocouples.

Many low temperature and cryogenic applications. Suitable for use in a mildly oxidizing or reducing atmosphere as an unprotected thermocouple sensor.

Commonly used in the plastics molding industry. NB Iron rusts at low and oxidizes at high temperatures.

Highest thermal EMF output change per degree F. Suitable for use in a vacuum or mildly oxidizing or reducing atmosphere as an unprotected sensor.

This combination shows good promise as an alternative to Type "K". Appears to be more stable and longer lived.

Used for high temperature applications. Has a high resistance to oxidation and corrosion. Easily contaminated and normally requires protection.

See Type "R" above.

See Type "R" above. Commonly used in the glass industry.

This is a compensating cable only and is used with Types "R" and "S" measuring thermocouple sensors.