International Thermocouple Color Codes - Thermocouple and Extension Grade Wires

THERMO-COUPLE TYPE	U.S. & CANADIAN (ANSI/MC96.1, ANSI/ASTM E230)				International	International	Czech British	Netherlands German	Japanese	French
	ALLOY COMBINATION	THERMOCOUPLE GRADE	EXTENSION GRADE	PLUG & JACK	IEC 584-3	IEC 584-3 *Intrinsically Safe*	BS 1843	DIN 43710	JIS C 1610	NFC 42-324
T	Copper / Constantan (Copper-Nickel)	Brown (+) Blue / Red (-)	Blue (+) Blue / Red (-)	Blue	Brown (+) Brown / White (-)	Blue (+) Brown / White (-)	Blue (+) White / Blue (-)	Brown (+) Red / Brown (-)	Brown (+) Red / White (-)	Blue (+) Yellow / Blue (-)
J	Iron *(magnetic)* / Constantan (Copper-Nickel)	Brown (+) White / Red (-)	White (+) Black / Red (-)	Black	Black (+) Black / White (-)	Blue (+) Black / White (-)	Black (+) Yellow / Blue (-)	Blue (+) Red / Blue (-)	Yellow (+) Red / White (-)	Black (+) Yellow / Black (-)
E	Nickel - Chromium / Constantan (Copper- Nickel)	Brown (+) Purple / Red (-)	Purple (+) Purple / Red (-)	Purple	Purple (+) Purple / White (-)	Blue (+) Purple / White (-)	Brown (+) Brown / Blue (-)	Black (+) Red / Black (-)	Purple (+) Red / White (-)	Purple (+) Yellow / Purple (-)
K	Nickel - Chromium / Nickel - Aluminium *(magnetic)*	Brown (+) Yellow / Red (-)	Yellow (+) Yellow / Red (-)	Yellow	Green (+) Green / White (-)	Blue (+) Green / White (-)	Red (+) Brown / Blue (-)	Green (+) Red / Green (-)	Blue (+) Red / White (-)	Yellow (+) Yellow / Purple (-)
N	Nicrosil (Nickel-Chromium- Silicon) / Nisil (Nickel-Silicon-Magnesium)	Brown (+) Orange / Red (-)	Orange (+) Orange / Red (-)	Orange	Pink (+) Pink / White (-)	Blue (+) Pink / White (-)	Orange (+) Orange / Blue (-)	No Standard (Use American Color Codes)	No Standard (Use American Color Codes)	No Standard (Use American Color Codes)
S	Platinum Rhodium -10% / Platinum	None Established	Black (+) Green / Red (-)	Green	Orange (+) Orange / White (-)	Blue (+) Orange / White (-)	Green (+) White / Blue (-)	White (+) Red / White (-)	Black (+) Red / White (-)	Green (+) Yellow / Green (-)
R	Platinum Rhodium -13% / Platinum	None Established	Black (+) Green / Red (-)	Green	Orange (+) Orange / White (-)	Blue (+) Orange / White (-)	Green (+) White / Blue (-)	White (+) Red / White (-)	Black (+) Red / White (-)	Green (+) Yellow / Green (-)
B	Platinum Rhodium - 30% / Platinum Rhodium - 6%	None Established	Gray (+) Gray / Red (-) (Compensated Cable)	White (Uncom-pensated)	Gray (+) Gray / White (-)		No Standard (Use Copper Wire)	Gray (+) Red / Gray (-) (Compensated Cable)	Gray (+) Red / Gray (-) (Compensated Cable)	No Standard (Use Copper Wire)
C	Tungsten Rhenium - 5% / Tungsten Rhenium - 26%	None Established	Green (+) Red / Red (-)	Red				No Standard (Use American Color Codes)	No Standard (Use American Color Codes)	No Standard (Use American Color Codes)