International Thermocouple Color Codes - Thermocouple and Extension Grade Wires

ProTherm INDUSTRIES

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 (+), Red (-), Blue	Blue	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 (+), Red (-), Black	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 (+), Red (-), Purple	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 (+), Red (-), Yellow	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 (+), Red (-), Orange	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 (+), Red (-), Green	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 (+), Red (-), Green	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 (+), Red (-), Gray (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)