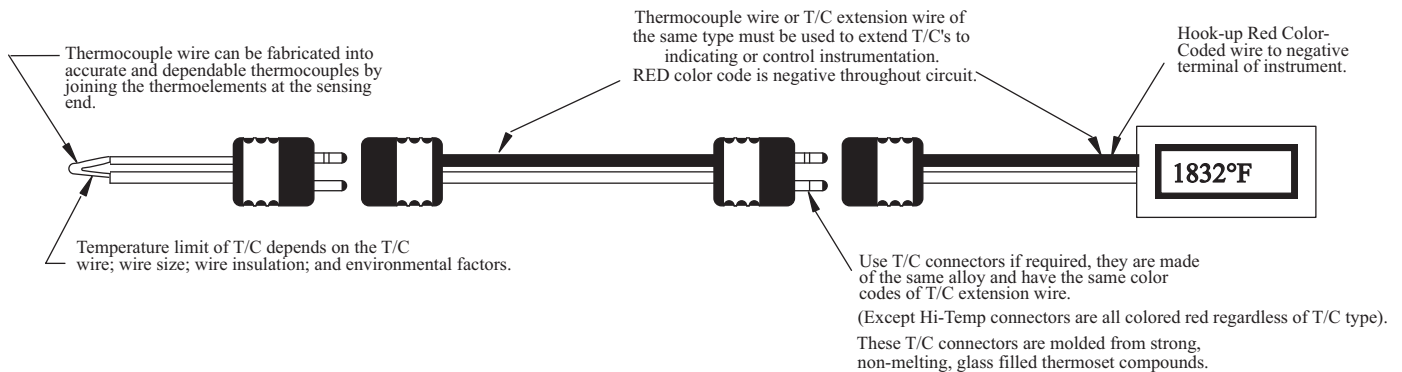


Temperature Sensors: Thermocouple and Thermocouple Extension Wire - Color Codes

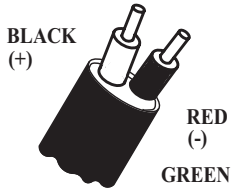
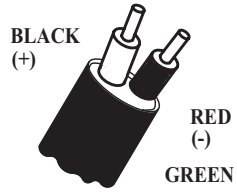
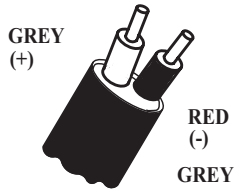

THERMOCOUPLE WIRE	Thermocouple Wire Letter Designator	T	J	E	K	N
	Alloy Combination & Polarity	(+) Copper (-) Constantan	(+) Iron (magnetic) (-) Constantan	(+) Chromel™ (-) Constantan	(+) Chromel™ (-) Alumel™ (magnetic)	(+) Nicrosil (-) Nisil
	Insulated Thermocouple Wire Color Code <small>Note: Some insulations cannot be color coded</small>	BLUE (+) RED (-) BROWN	(magnetic) WHITE (+) RED (-) BROWN	PURPLE (+) RED (-) BROWN	YELLOW (+) RED (-) BROWN (magnetic)	ORANGE (+) RED (-) BROWN
	Bare Wire Temperature Range <small>Note: Smaller wire sizes have shorter T/C life at higher temperatures</small>	660°F (350°C) -330°F (-200°C)	1400°F (750°C) 32°F (0°C)	1600°F (900°C) 32°F (0°C)	2300°F (1250°C) 32°F (0°C)	2300°F (1250°C) 32°F (0°C)

T/C EXTENSION WIRE	T/C Extension Wire Letter Designator	TX	JX	EX	KX	NX
	Alloy Combination & Polarity	(+) Copper (-) Constantan	(+) Iron (magnetic) (-) Constantan	(+) Chromel™ (-) Constantan	(+) Chromel™ (-) Alumel™ (magnetic)	(+) Nicrosil (-) Nisil
	Insulated T/C Extension Wire Color Code	BLUE (+) RED (-) BLUE	(magnetic) WHITE (+) RED (-) BLACK	PURPLE (+) RED (-) PURPLE	YELLOW (+) RED (-) YELLOW (magnetic)	ORANGE (+) RED (-) ORANGE
	Bare Extension Wire Temperature Range	210°F (100°C) -75°F (-60°C)	400°F (200°C) 32°F (0°C)	400°F (200°C) 32°F (0°C)	400°F (200°C) 32°F (0°C)	400°F (200°C) 32°F (0°C)



Temperature Sensors: Thermocouple and Thermocouple Extension Wire - Color Codes

R (+) Platinum 13% Rhodium (-) Platinum	S (+) Platinum 10% Rhodium (-) Platinum	B (+) Platinum 30% Rhodium (-) Platinum 6% Rhodium	W5 (+) Tungsten 5% Rhenium (-) Tungsten 26% Rhenium	Thermocouple Wire Letter Designator Alloy Combination & Polarity	THERMOCOUPLE WIRE
NOT AVAILABLE INSULATED	NOT AVAILABLE INSULATED	NOT AVAILABLE INSULATED	NOT AVAILABLE INSULATED	Insulated Thermocouple Wire Color Code Note: Some insulations cannot be color coded.	
2650°F (1450°C)	2650°F (1450°C)	3100°F (1700°C)	4200°F (2300°C) (for vacuum or inert atmospheres)	Bare Wire Temperature Range Note: Smaller wire sizes have shorter T/C life at higher temperatures	
32°F (0°C)	32°F (0°C)	1600°F (870°C)	800°F (400°C)		

RX (+) Copper (-) Copper Alloy 11	SX (+) Copper (-) Copper Alloy 11	BX (+) Copper Alloy 630 (-) Copper	W5X (+) Copper Alloy 405 (-) Copper Alloy 426	T/C Extension Wire Letter Designator Alloy Combination & Polarity	T/C EXTENSION WIRE
				Insulated T/C Extension Wire Color Code	
400°F (200°C)	400°F (200°C)	400°F (200°C)	1600°F (870°C)	Bare Extension Wire Temperature Range	
75°F (25°C)	75°F (25°C)	32°F (0°C)	32°F (0°C)		