

## 2) What are thermocouple color codes?

ASTM E-230 Letter	Thermoelement Alloys	Extension or Compensating Grade	Thermocouple Wire & Thermocouple Extension Wire Color Codes.								
			ASTM E-230 T/C	ASTM E-230 Extension	British 1843 1952	British BS-4937-30 1993	German DIN 43710	Japanese JIS C1610 1981	French NFC 42-324	International IEC 584-3 1989	
B (overall)			N/A	Grey	N/A	N/A	N/A	Grey	Grey	N/A	N/A
BP (-)	Pt 30% Rh	BPX-PCLW-30-6		Grey				Red	Red		
BN (-)	Pt 6% Rh	Copper		Red				Grey	White		
E (overall)			Brown	Purple	Brown	Purple	Black	Purple	Purple	Purple	Purple
EP (+)	Chromel	Chromel	Purple	Purple	Brown	Purple	Red	Red	Yellow	Purple	
EN (-)	Constantan	Constantan	Red	Red	Blue	White	Black	White	Purple	White	
J (overall)			Brown	Black	Black	Black	Blue	Yellow	Black	Black	
JP (+)	Iron	Iron	White	White	Yellow	Black	Red	Red	Yellow	Black	
JN (-)	Constantan	Constantan	Red	Red	Blue	White	Blue	White	Black	White	
K (overall)			Brown	Yellow	Red	Green	Green	Blue	Yellow	Green	
KP (+)	Chromel	Chromel	Yellow	Yellow	Brown	Green	Red	Red	Yellow	Green	
KN (-)	Alumel	Alumel	Red	Red	Blue	White	Green	White	Brown	White	
N (overall)			Brown	Orange	Orange	Pink	_*	_*	_*	Pink	
NP (+)	Nicrosil	Nicrosil	Orange	Orange	Orange	Pink	_*	_*	_*	Pink	
NN (-)	Nisil	Nisil	Red	Red	Blue	White	_*	_*	_*	White	
R (overall)			N/A	Green	Green	Orange	White	Black	Green	Orange	
RP (+)	Pt 13% Rh	Copper		Black	White	Orange	Red	Red	Yellow	Orange	
RN (-)	Pure Pt	#11 Alloy		Red	Blue	White	White	White	Green	White	
S (overall)			N/A	Green	Green	Orange	White	Black	Green	Orange	
SP (+)	Pt 10% Rh	Copper		Black	White	Orange	Red	Red	Yellow	Orange	
SN (-)	Pure Pt	#11 Alloy		Red	Blue	White	White	White	Green	White	
T (overall)			Brown	Blue	Blue	Brown	Brown	Brown	Blue	Brown	
TP (+)	Copper	Copper	Blue	Blue	White	Brown	Red	Red	Yellow	Brown	
TN (-)	Constantan	Constantan	Red	Red	Blue	White	Brown	White	Blue	White	



CONTROL

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