

## Thermocouple and Compensating Wire

X = Extension Grade

C = Compensating Grade

## Color code and limits of error for thermocouple and compensating wire as per ANSI MC 96.1 - 1975

Туре	Conductor		Color Code			Towns noture Dongs	Limits of error	
	Positive	Negative	<b>She ath</b>	Positive	Negative	Temperature Range	Standard	Special
TX	Copper	Constantan	Blue	Blue	Red	-60 to +100°C	± 1.0°C	± 0.5°C
JX	Iron	Constantan	Black	White	Red	0 to +200°C	± 2.2°C	± 1.1°C
EX	Chromel	Constantan	Purple	Purple	Red	0 to +200°C	± 1.7°C	
KX	Chromel	Alumel	Yellow	Yellow	Red	0 to +200°C	± 2.2°C	
WX*	Iron	Cu/Nickel	White	Green	Red	+24 to +200°C	± 3.33°C	
VX**	Copper	Constantan	Red	Brown	Red	+24 to +200°C	± 3.33°C	
SX	Copper	Cu/Ni alloy	Green	Black	Red	0 to +200°C	± .057mV	
BX	Copper	Cu/Ni alloy	Grey	Grey	Red	0 to +50°C & +50+200°C	3.7°C	

- The compensating cable WX for K thermocouple included in previous ASA C 96.1 964 rules, has been excluded from ANSI MC 96.1 1975 rules.
- The compensating cable VX for K thermocouples included in previous ISA RP1, has been excluded from up-to-date ASA and ANSI rules

## Color code for thermocouple grade wires as per ANSI MC 96.1 - 1975

Туре	Cond	luctor		Color Code	Temperature Range	
	Positive	Negative	Jacket	Positive	Negative	Temperature Kange
Т	Copper	Constantan	White	Blue	Red	(-)200 to 0°C & 0 to (+)370°C
J	Iron	Constantan	Black	White	Red	0+760°C
E	Chromel	Constantan	Purple	Purple	Red	(-)200 to 0°C & 0 to (+)870°C
K	Chromel	Alumel	Yellow	Yellow	Red	0 to (+)1260°C



