Standard ANSI/ASTM and Non-ANSI/ASTM Thermocouple Color Codes

					INSULATION			
	POS NEG	GENERIC and TRADE NAMES	MAGN YES	IETIC NO	SINGLE CONDUCTOR	OVERALL T/CWIRE	OVER ALL EXT. GRADE WIRE	PLUG & JACK
В	BP BN	Platinum 30% Rhodium Platinum 6% Rhodium		X	Gray Red		Gray	White (Uncompensated)
C*	CP CN	Tungsten 5% Rhenium Tungsten 26% Rhenium		X X	White/Red Trace Red		White/Red Trace	Brown
Е	EP EN	Chromel Constantan		X	Purple Red	Brown	Purple	Purple
J	JP JN	Iron Constantan	Х	Х	White Red	Brown	Black	Black
К	KP KN	Chromel Alumel	Х	Х	Yellow Red	Brown	Yellow	Yellow
M*	MP MN	Nickel 18% Molybdenum Nickel 0.8% Carbon		X X	N/A N/A		Note 1	Yellow
N*	NP NN	Nicrosil Nisil		X	Orange	Brown	Orange	Orange
P*	PP PN	Platinel 5355 Platinel 7674		X X	N/A N/A		Note 2	Yellow/Black
R	RP RN	Platinum 13% Rhodium Platinum		X X	Black Red		Green	Green
S	SP SN	Platinum 10% Rhodium Platinum		X	Black Red		Green	Green
Т	TP TN	Copper Constantan		X X	Blue Red	Brown	Blue	Blue

^{*} Non-ANSI/ASTM Symbol

Note 1 — Use of Type K extension grade wire is practical for temperatures under 121 $^{\circ}$ C [250 $^{\circ}$ F]. For Temperatures over 121 $^{\circ}$ C [250 $^{\circ}$ F], Type M wire should be used for the entire length of the assembly. Use of Type K connectors is standard practice.

Note 2 — Use of Type K extension grade wire is strongly discouraged. Platinel extension grade wire should be used for the entire length of the assembly.

Use of Type K connectors is standard practice.