

Shipping

Each coil or spool is marked with its exact length, however, Pyromation reserves the right to ship plus or minus 10% of the total amount of either standard or special wire ordered.

ASTM/ANSI Letter Designations

Thermocouple and extension wires are now generally ordered and specified by ASTM/ANSI designations for calibration. Popular generic and trade name examples are Chromel/Alumel-ASTM/ANSI Type K; Iron/Constantan-ASTM/ANSI Type J; Copper/Constantan-ASTM/ANSI Type T; Chromel/Constantan-ASTM/ANSI Type E; Nicrosil/Nisil-ASTM/ANSI Type N; Platinum/Platinum 10% Rhodium-ASTM/ANSI Type S; Platinum/Platinum 13% Rhodium-ASTM/ANSI Type R; and Platinum 6% Rhodium/Platinum 30% Rhodium-ASTM/ANSI Type B. Positive and negative legs are identified by the appropriate letter suffixes P and N, respectively. Those not familiar with this system will find this table helpful.

ANSI Letter Designations	Generic or Trade Names
JP	Iron
JN, EN, or TN	Constantan, Cupron®, Advance
TP	Copper
KP or EP	Chromel®, Tophel®, T1
NP	Nicrosil
KN	Alumel®, Nial®, T2
NN	Nisil
RP	Platinum 13% Rhodium
SP	Platinum 10% Rhodium
RN or SN	Pure Platinum
BN	Platinum 6% Rhodium
BP	Platinum 30% Rhodium

Color Coding

Standard ASTM/ANSI color coding is used on all insulated thermocouple wire and extension wire when type of insulation permits. In color coding, the right is reserved to include a tracer to distinguish the calibration.

ASTM/ANSI TYPE		MAGNETIC		ASTM/ANSI COLOR CODE		
T/C	Sgl.	Yes	No	Sgl.	Overall Extension Wire	Overall T/C Wire
T	TP TN		X	Blue Red	Blue	Brown
J	JP JN	X	X	White Red	Black	Brown
E	EP EN		X	Purple Red	Purple	Brown
K	KP KN	X	X	Yellow Red	Yellow	Brown
N	NP NN		X	Orange Red	Orange	Brown
R, S	RP, SP RN, SN		X	Black Red	Green	
B	BP BN		X	Grey Red	Grey	

Solid and Stranded Conductors

Thermocouple wire and extension wire are usually solid conductors. When greater flexibility is required, either are available in stranded construction. The accompanying table gives the stranding combinations used in Pyromation wire. However, other stranding combinations may be ordered to suit requirements.

Stranding Combinations

CONDUCTOR		STRANDING	
GAUGE	I.S.I. TYPE	NO. of STRANDS	GAUGE
14	ALL	7	22
16	ALL	7	24
18	ALL	7	26
20	ALL	7	28
22	ALL	7	30
24	ALL	7	32

Stock Insulated Wire

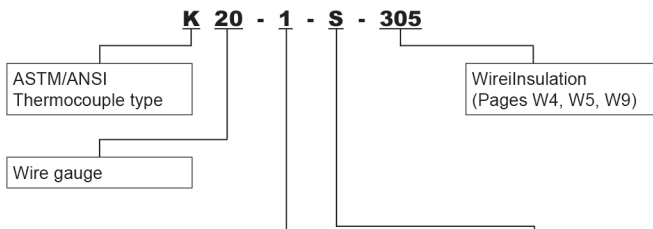
'Stocked' insulated thermocouple and extension wire, as indicated in the catalog pages, is available in the following "standard packaging": 50 ft. coils - 100 ft. coils - 250 ft. spools - 500 ft. spools - 1,000 ft. spools. Coils or spools of less than 1,000 ft. packaged in non-standard lengths, are available at an additional charge and may result in a delay in shipment. Spools or reels of over 1,000 ft. can be supplied at no extra charge, but may also result in a delay in shipment.

Non-Stock Insulated Wire

'Non-stocked' insulated thermocouple and extension wire in 1,000 ft. spools and over is available at no additional charge. Coils or spools of less than 1,000 ft. are available at an additional charge. Minimum order is 100 ft.

How to Read Pyromation Catalog Numbers

EXAMPLE ORDER NUMBER:



Conductor Type

CODE	DESCRIPTION			
T/C Grades	Solid	Stranded	Std. Limits	Special
1	X		X	
2	X			X
3		X	X	
4		X		X
Ext. Grades	Solid	Stranded	Std. Limits	Special
5	X		X	
6	X			X
7		X	X	
8		X		X

Opt. Overbraid Selections

CODE	DESCRIPTION
S	SS wire braid
C	Tinned copper wire braid
F	Flat SS ribbon wrap
W	Flat SS spiral wrap
G	Half oval galvanized steel spiral wrap
N	Alloy 600 wire braid