

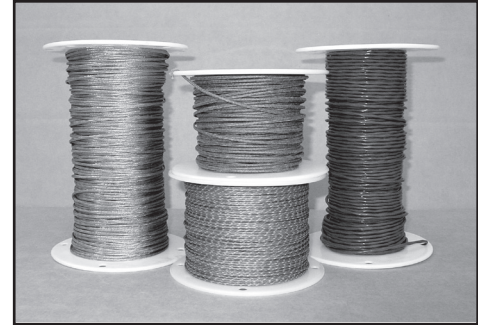
Color Coding: ANSI

Multi Strand: 16 gauge - 7 strands of 24 gage
20 gauge - 7 strands of 28 gage

Accuracy: Per ANSI MC 96.1 and ASTM E230

To Order: Specify the type number and calibration from the table below.

Example: 920-KM is fiberglass insulated and jacketed 20 gage, Chromel® Alumel® multistranded.



Type	Insulation/Jacket	Gage	Available Calibrations	Temp Rating	Construction
U716	PVC/PVC	16 Solid	JX, KX, TX, EX	221°F	Each conductor is twisted and shielded with a drain wire added within the twist of lay. A 105°C flame retardant PVC jacket is then applied. This construction is UL approved as 300 volt PLTC and has passed the IEEE 383 vertical flame test.
U720	PVC/PVC	20 Solid	JX, KX, TX, EX	221°F	
720	PVC/PVC	20 Solid 20 Stranded	JX, KX, TX, EX, RX, SX JXM, KXM	221°F	Conductors are laid parallel and jacketed. The thermocouple grade calibrations are available in both solid and multistrand. PVC has good moisture and abrasion resistance but becomes brittle at low temperatures, usually below minus 15°F.
820	FEP/FEP (Teflon®)	20 Solid 20 Stranded	J, K, T JM, KM	400°F	Conductors are laid parallel and jacketed. Teflon® has excellent resistance to moisture in temperatures down to minus 90°F. This fluoropolymer has been used in many food grade applications.
824	FEP/FEP (Teflon®)	24 Solid	J, K, T	400°F	
920	Fiberglass/Fiberglass	20 Solid 20 Stranded	J, K, T, E, RX, SX JM, KM	950°F	Conductors are laid parallel and jacketed. Fiberglass has poor resistance to moisture and only fair abrasion resistance. A saturant is applied to facilitate easy stripping and to prevent the fiberglass from fraying.

Thermocouple Type			°F
Wire Alloys	ANSI Symbol	Temp. Range -°F	Std. Limits
Iron vs. Constantan®	J	+32° to +545°	±4°
		+545° to +1400°	±.75%
Chromel® vs. Alumel®	K	-165° to +32°	±4°
		+32° to +545°	±4°
		+545° to +2300°	±.75%
Copper vs. Constantan®	T	-330° to -85°	±1.5%
		-85° to +270°	±1.8°
		+270° to +660°	±.75%
Chromel® vs. Constantan®	E	-330° to -270°	±1%
		-270° to +480°	±3°
		+480° to +640°	±3°
		+640° to +1600°	±.5%

Thermocouple Extension Wire				°F.
Extension Wire Alloys	ANSI Symbol	Temp. Range	Std. Limits	
*Iron vs. Constantan®	JX	+32° to +400°	±4°	
Chromel® vs. *Alumel®	KX	+32° to +400°	±4°	
Copper vs. Constantan®	TX	-75° to +210°	±1°	
Chromel® vs. Constantan®	EX	+32° to +400°	±3°	

ANSI Color Code for Thermocouple Wire						
ANSI Symbol	Wire Alloys	Polarity	Thermocouple Wire Individual	Thermocouple Wire Jacket	T/C Extension Wire Individual	T/C Extension Wire Jacket
J	Iron Constantan®	+JP	White	Brown	White	Black
		-JN	Red		Red	
K	Chromel® Alumel®	+KP	Yellow	Brown	Yellow	Yellow
		-KN	Red		Red	
T	Copper Constantan®	+TP	Blue	Brown	Blue	Blue
		-JN	Red		Red	
E	Chromel® Constantan®	+EP	Purple	Brown	Purple	Purple
		-EN	Red		Red	