

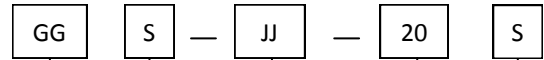
THERMOCOUPLE WIRE AND CABLE

WE STOCK SPECIAL LIMITS OF ERROR WIRE TO ASSURE ACCURACY

ORDERING GUIDE

The Following Example Describes:

Type "J", Special Limits of Error,
Fiberglass over Fiberglass with
Stainless Steel Overbraided, 20 Gauge Stranded



Insulation Type

- PP = PVC (221°F)
- PR = PVC Ripcord (221°F)
- TT(f) = FEP Teflon (400°F)
- TT(p) = PFA Teflon (500°F)
- KK = Kapton (500°F)
- TXFT(f) = FEP Twisted/Shielded (400°F)
- TXFT(p) = PFA Twisted/Shielded (500°F)
- GG = Fiberglass (900°F)
- HH = Hi-Temp Fiberglass (1,200°F)
- XR = Vitreous Silica (1,800°F)
- XC = Ceramic (2,200°F)
- PXFP = PVC Twisted/Shielded (221°F)

Overbraided (optional, omit if not required)

- C = Tinned Copper (400°F)
- S = Stainless Steel (1,400°F)
- I = Alloy 600 (2,000°F)

Calibration (Type)

- Special Limits of Error = EE, JJ, KK, NN, TT
- Standard Limits of Error = E, J, K, N, T
- Extension Grade = BX, CX, EX, JX, KX, NX, RX, SX, TX

Wire Gauge

- 16 = .051"
- 18 = .040"
- *20 = .032"
- 22 = .025"
- *24 = .020"
- 26 = .016"
- 28 = .013"
- *30 = .010"
- 36 = .005"
- 40 = .003"

* Most Popular Sizes

Stranded Wire*

("S" - optional, omit if not required)

- 20S = 7 Strands of .013"
- 22S = 7 Strands of .010"
- 24S = 7 Strands of .008"

* Stranded wire is used where greater flexibility is required. Call for availability.

THERMOCOUPLE METALS*	COLORS	SENSOR RANGE*	TYPE	STANDARD LIMITS*	TYPE	SPECIAL LIMITS*	TYPE	MAX*
Copper (+) Constantan (-)	+ Blue -Red	-200° to 350°C -330° to 650°F	T	±.75% or 1.0°C ±.75% or 1.8°F	TT	±.4% or .5°C ±.4% or .9°F	TX	100°C 212°F
Chromel (+) Constantan (-)	+ Purple -Red	-200° to 900°C 330° to 1,600°F	E	±.50% or 1.7°C ±.50% or 3.0°F	EE	±.4% or 1.0°C ±.4% or 1.8°F	EX	200°C 400°F
Iron** (+) Constantan (-)	+White -Red	0° to 750°C 32° to 1,400°F	J	±.75% or 2.2°C ±.75% or 4.0°F	JJ	±.4% or 1.1°C ±.4% or 2.0°F	JX	200°C 400°F
Chromel (+) Alumel** (-)	+Yellow -Red	-200° to 1,250°C -330° to 2,300°F	K	±.75% or 2.2°C ±.75% or 4.0°F	KK	±.4% or 1.1°C ±.4% or 2.0°F	KX	200°C 400°F
Nicrosil (+) Nisil (-)	+Orange -Red	0° to 1,250°C 32° to 2,300°F	N	±.75% or 2.2°C ±.75% or 4.0°F	NN	±.4% or 1.1°C ±.4% or 2.0°F	NX	200°C 400°F
Platinum 10%Rh(+) Platinum (-)	***	0° to 1,450°C 32° to 2,650°F	S	±.25% or 1.5°C ±.25% or 2.7°F	SS	±.1% to .6°C ±.1% or 1.1°F	SX	200°C 400°F
Platinum 13%Rh (+) Platinum (-)	***	0° to 1,450°C 32° to 2,650°F	R	±.25% or 1.5°C ±.25% or 2.7°F	RR	±.1% to .6°C ±.1% or 1.1°F	RX	200°C 400°F
Platinum 30%Rh (+) Platinum 6%Rh (-)	***	870° to 1,700°C 1600° to 3,100°F	B	±.5% ±.5%	***	***	BX†	65°C 150°F
Tungsten 5%Re (+) Tungsten 26%Re (-)	***	400° to 2,300°C 800° to 4,200°F	C††	±1% ±1%	***	***	CX††	870°C 1,600°F

*Limits of error are for the positive range of the listed thermocouples only. Cryogenic range limits of error are different. The useful range of a thermocouple may be limited by the insulating material. Extension wire for Types R, S, B, & C are made of different alloys.

**Magnetic

***Not applicable

†Cu/Cu can be used up to 100 °C

†† NOT ANSI Symbol