

Thermocouple Cable

Fiberglass Insulated (450 C/ 600 C/ 1000 C/ 1200 C)

Applications

- Heat Treatment
- Component Testing
- Steel and Aluminum Industry
- Metals Production
- Furnace Surveys
- Temperature Sensors

Available Options

- Stabilized Type K , J & Type E Conductors
- Twisted/Shielded/ Parallel laid Pair, Metal Coverings(Optional)
- Tighter than Special Limit Accuracy Tolerances
- Special Color Codes
- Calibration Test Reports

Product Features

- Good Moisture, Chemical and Abrasion Resistance
- High Temperature Stability

Product Specifications

Conductors:

Solid or stranded thermocouple wire ANSI MC96.1

Insulation:

Braided fiberglass with high temperature impregnation*

Construction:

Parallel laid conductors

Jacket:

Braided fiberglass with high temperature impregnation*

Operating Temperature:

990C continuous (For 1000 C Fiberglass yarn)

1100C single exposure (For 1000 C Fiberglass yarn)

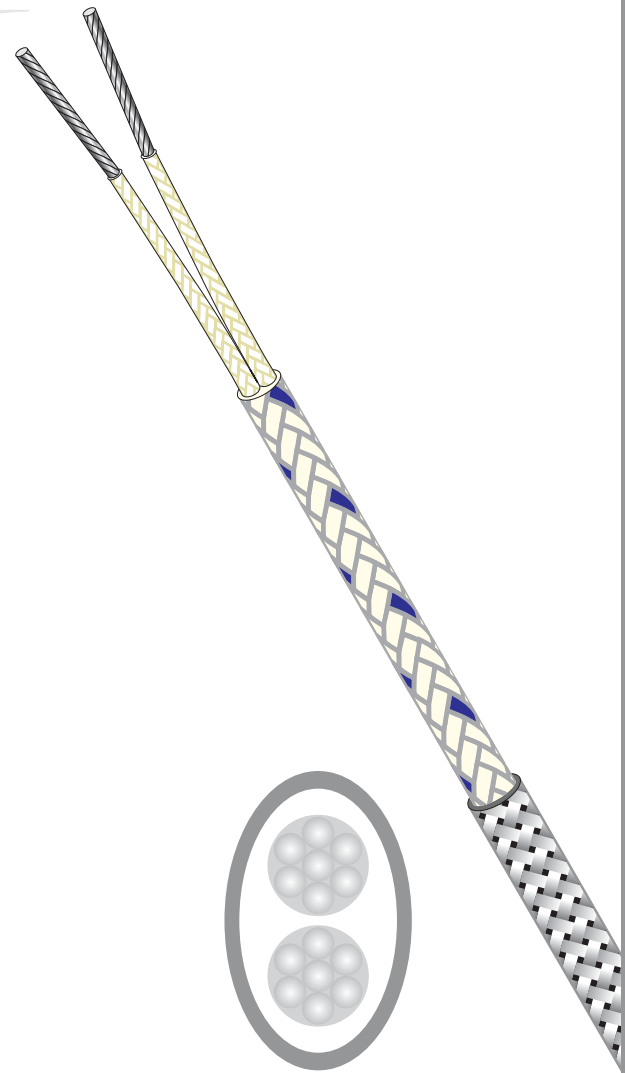
Limits of Error:

Conforms to IEC 584 and ANSI MC 96.1

Color Code:

All International Color Codes Available

*Impregnation maintained to +400F (+200C)



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Table 1 Calibration Tolerance

Thermocouple Type	Temperature Range F (C)	Tolerance-Reference Junction 32F (0C)			
		Grade	Standard Grade	Grade	Special Grade
		Designation	Limits	Grade	Limits
		Grade	F (C) whichever	Designation	F (C) whichever
Designation	is greater		is greater		
T	32 (0) to 700 (370)	T	±1.8 (1) or ±0.75%	TT	±0.9 (0.5) or 0.4%
J	32 (0) to 1400 (760)	J	±4 (2.2) or ±0.75%	JJ	±2 (1.1) or 0.4%
E	32 (0) to 1600 (870)	E	±3.1 (1.7) or ±0.50%	EE	±1.8 (1) or 0.4%
K or N	32 (0) to 2300 (1260)	K or N	±4 (2.2) or ±0.75%	KK or NN	±2 (1.1) or 0.4%
T*		T	±1.8 (1) or ±1.5%	TT	±0.9 (0.5) or 0.8%**
E*	-328 (-200) to 32 (0)	E	±3.1 (1.7) or ±1%	EE	±1.8 (1) or 0.5%**
K*	-328 (-200) to 32 (0)	K	±4 (2.2) or ±2%	KK	**
Extension Wire	-328 (-200) to 32 (0)				
		TX	±1.8 (1)	TTX	±0.9 (0.5)
TX	32 (0) to 212 (100)	JX	±4 (2.2)	JJX	±2 (1.1)
JX	32 (0) to 400 (200)	EX	±3.1 (1.7)	EEX	±1.8 (1)
EX	32 (0) to 400 (200)	KX or NX	±4 (2.2)	KKX or NNX	±2 (1.1)
KX or NX	32 (0) to 400 (200)				
		RX or SX	±9 (5)		
RX or SX	32 (0) to 400 (200)	BX***	±7.6 (4.2)		
BX	32 (0) to 212 (100)	BX	±6.7 (3.7)		
BX	32 (0) to 400 (200)	ALLOY***			

- Thermocouple material is normally supplied to meet tolerances above 0C (32F). If material is required to meet tolerances below 0C (32F), the purchase order must so state. Special selection of material is required.
- Suggested initial calibration tolerance. Requirements should be discussed between purchaser and supplier.
- Copper vs. copper can be used as an extension for Type B thermocouples if the transition is below 100C (212F). Above 100C (212F), PCLW30-6 alloy should be used as the positive extension wire.