

Thermocouple Cable

PTFE Insulated (260 C)

Applications

- Aerospace
- Power Generation
- Laboratories
- Petrochemical Plants
- Cryogenic Applications
- FDA Approved Applications
- Composites

Available Options

- Metal Over braided
- Galvanized Half-Oval Armor
- Twisted/Shielded Pair
- Special Color Codes
- Calibration Test Reports

Product Features

- Continuous use up to 500F (260C)
- Excellent Solvent Resistance
- Flame Retardant
- Will Not Melt
- Abrasion Resistant

Product Specifications

Conductors:

Solid or stranded thermocouple wire ANSI MC96.1

Insulation:

Two layers of fused fluoropolymer PTFE tape

Construction:

Parallel laid conductors

Jacket:

Two layers of fused fluoropolymer PTFE tape

Operating Temperature:

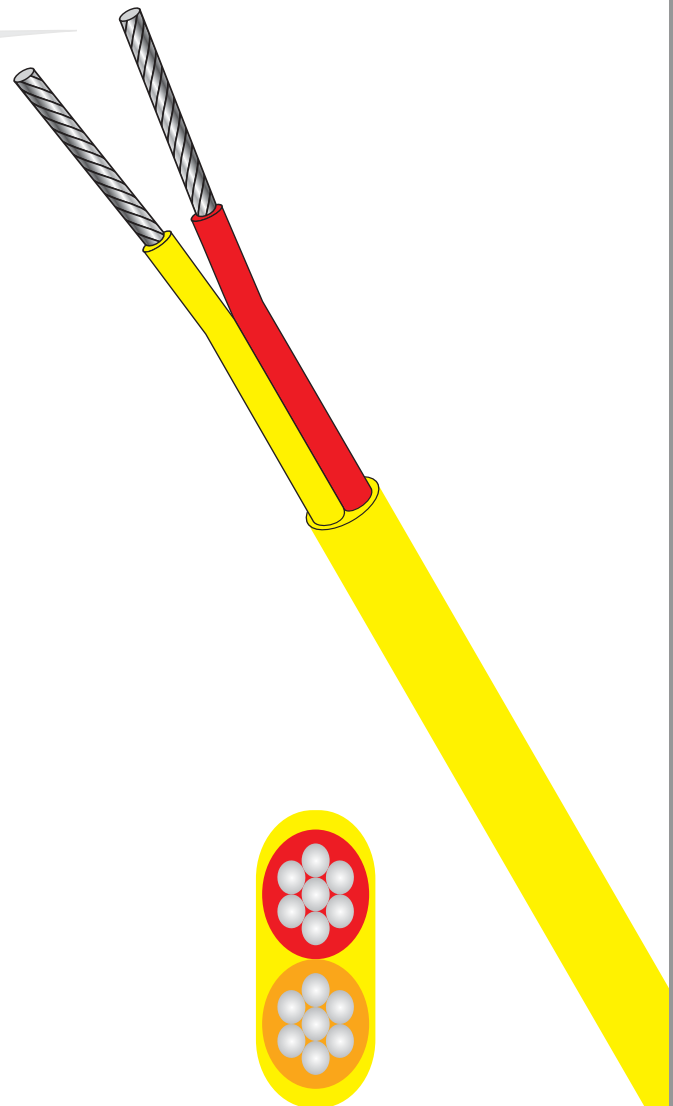
-328°F (-200°C) to +500F (+260C) continuous

Limits of Error:

Conforms to IEC 584 and ANSI MC 96.1

Color Code:

All International Color Codes Available



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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.