

Thermocouple and Extension Wire Calibration Tolerances

Reference Junction 32°F (0°C)

Calibration Type	Temperature Range		Tolerance (whichever is GREATER)	
	°F	°C	Standard	Special
Thermocouple-Grade Wire				
J	32 to 1382°F	0 to 750°C	± 2.2°C or ± 0.75%	± 1.1°C or ± 0.4%
K	32 to 2282°F	0 to 1250°C	± 2.2°C or ± 0.75%	± 1.1°C or ± 0.4%
E	32 to 1652°F	0 to 900°C	± 1.7°C or ± 0.5%	± 1.0°C or ± 0.4%
T	32 to 662°F	0 to 350°C	± 1.0°C or ± 0.75%	± 0.5°C or ± 0.4%
R or S	32 to 2642°F	0 to 1450°C	± 1.5°C or ± 0.25%	± 0.6°C or ± 0.1%
B	1598 to 3092°F	0 to 1700°C	± 0.5%	± 0.25%
N	32 to 2282°F	0 to 1250°C	± 2.2°C or ± 0.75%	± 1.1°C or ± 0.4%

Calibration Type	Temperature Range		Tolerance	
	°F	°C	Standard	Special
Extension-Grade Wire				
JX	32 to 392°F	0 to 200°C	± 2.2°C	± 1.1°C
KX	32 to 392°F	0 to 200°C	± 2.2°C	± 1.1°C
EX	32 to 392°F	0 to 200°C	± 1.7°C	± 1.0°C
TX	32 to 212°F	0 to 100°C	± 1.0°C	± 0.5°C
NX	32 to 392°F	0 to 200°C	± 2.2°C	± 1.1°C

Calibration Type	Temperature Range		Tolerance
	°F	°C	Standard
Compensation Extension Wire			
BX	32 to 392°F	0 to 200°C	± 3.7°C
CX	32 to 1600°F	0 to 870°C	± 6.8°C
RX or SX	32 to 392°F	0 to 200°C	± 5.0°C