

# Temperature °Controls Pty Ltd

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## THERMOCOUPLE WIRE DATA SHEET

Calibration Tolerances  
 Reference Junction 0°C

Calibration Type	Temperature Range °C	Tolerances (whichever is GREATER)	
		Standard	Special
THERMOCOUPLE-GRADE WIRE			
J	0 to 750°C	±2.2°C or ±0.75%	±1.1°C or ±0.4%
K	0 to 1250°C	±2.2°C or ±0.75%	±1.1°C or ±0.4%
E	0 to 900°C	±1.7°C or ±0.5%	±1.0°C or ±0.4%
T	0 to 350°C	±1.0°C or ±0.75%	±0.5°C or ±0.4%
R & S	0 to 1450°C	±1.5°C or ±0.25%	±0.6°C or ±0.1%
B	870 to 1700°C	±0.5%	±0.25%
N	0 to 1300°C	±2.2°C or ±0.75%	±1.1°C or ±0.4%

Calibration Type	Temperature Range °C	Tolerances	
		Standard	Special
EXTENSION-GRADE WIRE			
JX	0 to 200°C	±2.2°C or ±0.75%	±1.1°C or ±0.4%
KX	0 to 200°C	±2.2°C or ±0.75%	±1.1°C or ±0.4%
EX	0 to 200°C	±1.7°C or ±0.5%	±1.0°C or ±0.4%
TX	0 to 100°C	±1.0°C or ±0.75%	±0.5°C or ±0.4%
R & S	0 to 200°C	±1.5°C or ±0.25%	±0.6°C or ±0.1%
BX	0 to 100°C	±0.5%	±0.25%
NX	0 to 200°C	±2.2°C or ±0.75%	±1.1°C or ±0.4%

### NOMINAL LOOP RESISTANCE

Ohms / Metre at 20°C

CONDUCTOR SOLID FLEXIBLE NO. / SIZE MM	KX	EX	JX	TX	NX	Approx Gauge No/ AWG
1/0.3	14.00	16.97	8.91	7.18	19.31	
7/0.2	4.59	5.57	2.92	2.35	6.33	
1/0.5	5.04	6.11	3.21	2.58	6.95	24
13/0.2	2.47	2.997	1.574	1.267	3.41	
1/0.8	1.970	2.387	1.253	1.009	2.72	20
16/0.2	2.009	2.435	1.279	1.029	2.77	
1/1.0	1.261	1.528	0.802	0.646	1.738	18
24/0.2	1.339	1.624	0.852	0.686	1.847	
1/1.29	0.746	0.904	0.475	0.382	1.004	16