



SD 1430

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 or S	0 to 1450°C	±1.5°C or ±0.25%	±0.6°C or ±0.4%
B	870 to 1700°C	±0.5%	
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	±1.1°C
KX	0 to 200°C	±2.2°C	±1.1°C
EX	0 to 200°C	±1.7°C	±1.0°C
TX	0 to 100°C	±1.0°C	±0.5°C
NX	0 to 200°C	±2.2°C	±1.1°C

NOMINAL LOOP RESISTANCE

Ohms/Metre at 20°

CONDUCTOR SOLID FLEXIBLE NO. / SIZE MM	KX	EX	JX	TX	NX	Approx Gauge No. AWG	
							1/0.3
	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	