

Loop Resistance (Ohms per foot) For Thermocouple Wire of Various Diameters

Ohms per circular mil foot (a constant)		585	800	356	721	308
Wire						
Diameter	AWG	K	N	J	E	T
(inches)						
.460	0000	.00276	.00378	.00168	.00341	.00146
.4096	000	.0035	.0048	.0021	.0043	.0018
.3648	00	.0044	.0060	.0027	.0054	.0023
.3249	0	.0055	.0076	.0034	.0068	.0029
.2893	1	.0070	.0096	.0043	.0086	.0037
.2576	2	.0088	.0121	.0054	.0109	.0046
.2294	3	.0111	.0152	.0068	.0137	.0059
.2043	4	.0140	.0192	.0085	.0173	.0074
.1819	5	.0177	.0242	.0108	.0218	.0093
.162	6	.0223	.0305	.0136	.0275	.0117
.1443	7	.0281	.0384	.0171	.0346	.0148
.1285	8	.0354	.0484	.0216	.0437	.0187
.1144	9	.0447	.0611	.0272	.0551	.0235
.1019	10	.0563	.0770	.0343	.0694	.0297
.0907	11	.0711	.0972	.0433	.0876	.0374
.0808	12	.0896	.1225	.0545	.1104	.0472
.072	13	.113	.154	.069	.139	.059
.0641	14	.142	.195	.087	.175	.075
.0571	15	.179	.245	.109	.221	.094
.0508	16	.227	.310	.138	.279	.119
.0453	17	.285	.390	.173	.351	.150
.0403	18	.360	.493	.219	.444	.190
.0359	19	.454	.621	.276	.559	.239
.032	20	.571	.781	.348	.704	.301
.0285	21	.720	.985	.438	.888	.379
.0254	22	.907	1.240	.552	1.118	.477
.0226	23	1.15	1.57	.697	1.412	.603
.0201	24	1.45	1.98	.881	1.785	.762
.0179	25	1.83	2.50	1.11	2.25	.961
.0159	26	2.31	3.16	1.41	2.85	1.22
.0142	27	2.90	3.97	1.77	3.58	1.53
.0126	28	3.68	5.04	2.24	4.54	1.94
.0113	29	4.58	6.27	2.79	5.65	2.41
.010	30	5.85	8.00	3.56	7.21	3.08
.0089	31	7.39	10.10	4.49	9.10	3.89
.008	32	9.14	12.50	5.56	11.27	4.81
.0071	33	11.60	15.87	7.06	14.30	6.11
.0063	34	14.74	20.16	8.97	18.17	7.76
.0056	35	18.65	25.51	11.35	22.99	9.82
.005	36	23.40	32.00	14.24	28.84	12.32