

# THERMOCOUPLE AND RESISTANCE TABLES



t <sub>68</sub> °C	Typ T Cu-CuNi IEC 584 mV	Typ J Fe- CuNi IEC 584 mV	Typ K NiCr- Ni IEC 584 mV	Typ R Pt13 Rh- Pt IEC 584 mV	Typ S Pt10Rh- Pt IEC 584 mV	Pt100 DIN 43760 Ω
-50	-1.819	-2.431	-1.889	-0.226	-0.236	80.31
-45	-1.648	-2.197	-1.709	-0.207	-0.215	82.29
-40	-1.475	-1.960	-1.527	-0.188	-0.194	84.27
-35	-1.299	-1.722	-1.342	-0.167	-0.173	86.25
-30	-1.121	-1.481	-1.156	-0.145	-0.150	88.22
-25	-0.940	-1.239	-0.968	-0.123	-0.127	90.19
-20	-0.757	-0.995	-0.777	-0.100	-0.103	92.16
-15	-0.571	-0.748	-0.585	-0.076	-0.078	94.12
-10	-0.383	-0.501	-0.392	-0.051	-0.053	96.09
-5	-0.193	-0.251	-0.197	-0.026	-0.027	98.04
0	0.000	0.000	0.000	0.000	0.000	100.00
5	0.195	0.253	0.198	0.027	0.027	101.95
10	0.391	0.507	0.397	0.054	0.055	103.90
15	0.589	0.762	0.597	0.082	0.084	105.85
20	0.789	1.019	0.798	0.111	0.113	107.79
25	0.992	1.277	1.000	0.141	0.142	109.73
30	1.196	1.536	1.203	0.171	0.173	111.67
35	1.403	1.797	1.407	0.201	0.203	113.61
40	1.611	2.058	1.611	0.232	0.235	115.54
45	1.822	2.321	1.817	0.264	0.266	117.47
50	2.035	2.585	2.022	0.296	0.299	119.40
55	2.250	2.849	2.229	0.329	0.331	121.32
60	2.467	3.115	2.436	0.363	0.365	123.24
65	2.687	3.381	2.643	0.397	0.398	125.16
70	2.908	3.649	2.850	0.431	0.432	127.07
75	3.131	3.917	3.058	0.466	0.467	128.98
80	3.357	4.186	3.266	0.501	0.502	130.89
85	3.584	4.455	3.473	0.537	0.537	132.80
90	3.813	4.725	3.681	0.573	0.573	134.70
95	4.044	4.996	3.888	0.610	0.609	136.60
100	4.277	5.268	4.095	0.647	0.645	138.50
105	4.512	5.540	4.302	0.685	0.682	140.39
110	4.749	5.812	4.508	0.723	0.719	142.29
115	4.987	6.085	4.714	0.761	0.757	144.17
120	5.227	6.359	4.919	0.800	0.795	146.06
125	5.469	6.633	5.124	0.839	0.833	147.94
130	5.712	6.907	5.327	0.879	0.872	149.82
135	5.957	7.182	5.531	0.919	0.910	151.70
140	6.204	7.457	5.733	0.959	0.950	153.58
145	6.452	7.732	5.936	1.000	0.989	155.45
150	6.702	8.008	6.137	1.041	1.029	157.31
155	6.954	8.284	6.338	1.082	1.069	159.18
160	7.207	8.560	6.539	1.124	1.109	161.04
165	7.462	8.837	6.739	1.166	1.149	162.90
170	7.718	9.113	6.939	1.208	1.190	164.76
175	7.975	9.390	7.139	1.251	1.231	166.61
180	8.235	9.667	7.338	1.294	1.273	168.46
185	8.495	9.944	7.538	1.337	1.314	170.31
190	8.757	10.222	7.737	1.380	1.356	172.16
195	9.021	10.499	7.937	1.424	1.398	174.00
200	9.286	10.777	8.137	1.468	1.440	175.84
205	9.553	11.054	8.336	1.512	1.482	177.68
210	9.820	11.332	8.537	1.557	1.525	179.51
215	10.090	11.609	8.737	1.602	1.568	181.34
220	10.360	11.887	8.938	1.647	1.611	183.17
225	10.632	12.165	9.139	1.692	1.654	184.99
230	10.905	12.442	9.341	1.738	1.698	186.82
235	11.180	12.720	9.543	1.784	1.741	188.63
240	11.456	12.998	9.745	1.830	1.785	190.45
245	11.733	13.275	9.948	1.876	1.829	192.26
250	12.011	13.553	10.151	1.923	1.873	194.07
255	12.291	13.830	10.355	1.970	1.917	195.88
260	12.572	14.108	10.560	2.017	1.962	197.69
265	12.854	14.385	10.764	2.064	2.006	199.49
270	13.137	14.663	10.969	2.111	2.051	201.29
275	13.421	14.940	11.175	2.159	2.096	203.08
280	13.707	15.217	11.381	2.207	2.141	204.88
285	13.993	15.494	11.587	2.255	2.186	206.67
290	14.281	15.771	11.793	2.303	2.232	208.45
295	14.570	16.048	12.000	2.351	2.277	210.24
300	14.860	16.325	12.207	2.400	2.323	212.02
305	15.151	16.602	12.415	2.449	2.368	213.80
310	15.443	16.879	12.623	2.498	2.414	215.57
315	15.736	17.155	12.831	2.547	2.460	217.35
320	16.030	17.432	13.039	2.596	2.506	219.12
325	16.325	17.708	13.247	2.646	2.553	220.88
330	16.621	17.984	13.456	2.695	2.599	222.65
335	16.919	18.260	13.665	2.745	2.646	224.41
340	17.217	18.537	13.874	2.795	2.692	226.17
345	17.516	18.813	14.083	2.845	2.739	227.92
350	17.816	19.089	14.292	2.896	2.786	229.67
355	18.118	19.364	14.502	2.946	2.833	231.42
360	18.420	19.640	14.712	2.997	2.880	233.17
365	18.723	19.916	14.922	3.048	2.927	234.91
370	19.027	20.192	15.132	3.099	2.974	236.65
375	19.332	20.467	15.342	3.150	3.022	238.39
380	19.638	20.743	15.552	3.201	3.069	240.13
385	19.945	21.019	15.763	3.252	3.117	241.86
390	20.252	21.295	15.974	3.304	3.164	243.59
395	20.560	21.570	16.184	3.355	3.212	245.31
400	20.869	21.846	16.395	3.407	3.260	247.04
405		22.122	16.607	3.459	3.308	248.76
410		22.397	16.818	3.511	3.356	250.48
415		22.673	17.029	3.563	3.404	252.19
420		22.949	17.241	3.616	3.452	253.90
425		23.225	17.453	3.668	3.500	255.61
430		23.501	17.664	3.721	3.549	257.32
435		23.777	17.876	3.774	3.597	259.02
440		24.054	18.088	3.826	3.645	260.72
445		24.330	18.301	3.879	3.694	262.42
450		24.607	18.513	3.933	3.743	264.11
455		24.884	18.725	3.986	3.791	265.80
460		25.161	18.938	4.039	3.840	267.49
465		25.438	19.150	4.093	3.889	269.18
470		25.716	19.363	4.146	3.938	270.86
475		25.994	19.576	4.200	3.987	272.54
480		26.272	19.788	4.254	4.036	274.22
485		26.551	20.001	4.308	4.086	275.89
490		26.829	20.214	4.362	4.135	277.56
495		27.109	20.427	4.416	4.184	279.23
500		27.388	20.640	4.471	4.234	280.90

t <sub>68</sub> °C	Typ T Cu-CuNi IEC 584 mV	Typ J Fe- CuNi IEC 584 mV	Typ K NiCr- Ni IEC 584 mV	Typ R Pt13 Rh- Pt IEC 584 mV	Typ S Pt10Rh- Pt IEC 584 mV	Pt100 DIN 43760 Ω
505		27.668	20.853	4.525	4.283	282.56
510		27.949	21.066	4.580	4.333	284.22
515		28.230	21.280	4.634	4.382	285.87
520		28.511	21.493	4.689	4.432	287.53
525		28.793	21.706	4.744	4.482	289.18
530		29.075	21.919	4.799	4.532	290.83
535		29.358	22.132	4.854	4.582	292.47
540		29.642	22.346	4.910	4.632	294.11
545		29.926	22.559	4.965	4.682	295.75
550		30.210	22.772	5.021	4.732	297.39
555		30.496	22.985	5.076	4.782	299.02
560		30.782	23.198	5.132	4.832	300.65
565		31.068	23.411	5.188	4.883	302.28
570		31.356	23.624	5.244	4.933	303.91
575		31.644	23.837	5.300	4.984	305.53
580		31.933	24.050	5.356	5.034	307.15
585		32.222	24.263	5.413	5.085	308.76
590		32.513	24.476	5.469	5.136	310.38
595		32.804	24.689	5.526	5.187	311.99
600		33.096	24.902	5.582	5.237	313.59
605		33.389	25.114	5.639	5.288	315.20
610		33.683	25.327	5.696	5.339	316.80
615		33.977	25.539	5.753	5.391	318.40
620		34.273	25.751	5.810	5.442	319.99
625		34.569	25.964	5.867	5.493	321.59
630		34.867	26.176	5.925	5.544	323.18
635		35.165	26.387	5.982	5.596	324.76
640		35.464	26.599	6.040	5.648	326.35
645		35.764	26.811	6.098	5.700	327.93
650		36.066	27.022	6.155	5.751	329.51
655		36.368	27.234	6.213	5.803	331.09
660		36.671	27.445	6.272	5.855	332.66
665		36.975	27.656	6.330	5.907	334.23
670		37.280	27.867	6.388	5.960	335.79
675		37.586	28.078	6.447	6.012	337.36
680		37.893	28.288	6.506	6.064	338.92
685		38.201	28.498	6.564	6.117	340.48
690		38.510	28.709	6.623	6.169	342.03
695		38.819	28.919	6.682	6.222	343.58
700		39.130	29.128	6.741	6.274	345.13
705		39.442	29.338	6.800	6.327	346.68
710		39.754	29.547	6.860	6.380	348.22
715		40.068	29.756	6.919	6.433	349.76
720		40.382	29.965	6.979	6.486	351.30
725		40.697	30.174	7.039	6.539	352.83
730		41.013	30.383	7.098	6.592	354.37
735		41.329	30.591	7.158	6.645	355.90
740		41.647	30.799	7.218	6.699	357.42
745		41.965	31.007	7.279	6.752	358.95
750		42.283	31.214	7.339	6.805	360.47
755		42.602	31.422	7.399	6.859	361.98
760		42.922	31.629	7.460	6.913	