



Technical Information Data Bulletin

Copper 100 Ohms (Cu100)

α 0.00427

Temperature vs Resistance Table Resistance @ 32°F

Temperature Range:

-140 to 500°F
-100 to 260°C

TEMPERATURE & PROCESS INSTRUMENTS - CONZ

Temp	0	-1	-2	-3	-4	-5	-6	-7	-8	-9
-140	58.719	58.474	58.229	57.984	57.738	57.493	57.248	57.003	56.757	
-130	61.166	60.922	60.677	60.433	60.188	59.943	59.698	59.454	59.209	58.964
-120	63.608	63.364	63.120	62.876	62.632	62.388	62.144	61.899	61.655	61.411
-110	66.045	65.802	65.558	65.314	65.071	64.827	64.584	64.340	64.096	63.852
-100	68.476	68.233	67.990	67.747	67.504	67.261	67.018	66.775	66.532	66.288
-90	70.902	70.660	70.417	70.175	69.932	69.690	69.447	69.204	68.962	68.719
-80	73.323	73.081	72.839	72.597	72.355	72.113	71.871	71.629	71.387	71.144
-70	75.738	75.496	75.255	75.014	74.772	74.531	74.289	74.048	73.806	73.564
-60	78.147	77.907	77.666	77.425	77.184	76.943	76.702	76.461	76.220	75.979
-50	80.528	80.291	80.053	79.816	79.578	79.341	79.103	78.866	78.629	78.388
-40	82.903	82.665	82.428	82.190	81.953	81.716	81.478	81.241	81.003	80.766
-30	85.277	85.040	84.803	84.565	84.328	84.090	83.853	83.615	83.378	83.140
-20	87.652	87.415	87.177	86.940	86.702	86.465	86.227	85.990	85.752	85.515
-10	90.027	89.789	89.552	89.314	89.077	88.839	88.602	88.364	88.127	87.890
0	92.401	92.164	91.926	91.689	91.451	91.214	90.977	90.739	90.502	90.264
Temp	0	1	2	3	4	5	6	7	8	9
0	92.401	92.639	92.876	93.114	93.351	93.589	93.826	94.064	94.301	94.538
10	94.776	95.013	95.251	95.488	95.726	95.963	96.201	96.438	96.676	96.913
20	97.151	97.388	97.625	97.863	98.100	98.338	98.575	98.813	99.050	99.288
30	99.525	99.763	100.000	100.237	100.475	100.712	100.950	101.187	101.425	101.662
40	101.900	102.137	102.375	102.612	102.850	103.087	103.324	103.562	103.799	104.037
50	104.274	104.512	104.749	104.987	105.224	105.462	105.699	105.937	106.174	106.411
60	106.649	106.886	107.124	107.361	107.599	107.836	108.074	108.311	108.549	108.786
70	109.024	109.261	109.498	109.736	109.973	110.211	110.448	110.686	110.923	111.161
80	111.398	111.636	111.873	112.111	112.348	112.585	112.823	113.060	113.298	113.535
90	113.773	114.010	114.248	114.485	114.723	114.960	115.198	115.435	115.672	115.910
100	116.147	116.385	116.622	116.860	117.097	117.335	117.572	117.810	118.047	118.285
110	118.522	118.759	118.997	119.234	119.472	119.709	119.947	120.184	120.422	120.659
120	120.897	121.134	121.372	121.609	121.846	122.084	122.321	122.559	122.796	123.034
130	123.271	123.509	123.746	123.984	124.221	124.458	124.696	124.933	125.171	125.408
140	125.646	125.883	126.121	126.358	126.596	126.833	127.071	127.308	127.545	127.783
150	128.020	128.258	128.495	128.733	128.970	129.208	129.445	129.683	129.920	130.158
160	130.395	130.632	130.870	131.107	131.345	131.582	131.820	132.057	132.295	132.532
170	132.770	133.007	133.245	133.482	133.719	133.957	134.194	134.432	134.669	134.907
180	135.144	135.382	135.619	135.857	136.094	136.332	136.569	136.806	137.044	137.281
190	137.519	137.756	137.994	138.231	138.469	138.706	138.944	139.181	139.419	139.656
200	139.893	140.131	140.368	140.606	140.843	141.081	141.318	141.556	141.793	142.031
210	142.268	142.506	142.743	142.980	143.218	143.455	143.693	143.930	144.168	144.405
220	144.643	144.880	145.118	145.355	145.593	145.830	146.067	146.305	146.542	146.780
230	147.017	147.255	147.492	147.730	147.967	148.205	148.442	148.680	148.917	149.154
240	149.392	149.629	149.867	150.104	150.342	150.579	150.817	151.054	151.292	151.529
250	151.767	152.004	152.241	152.479	152.716	152.954	153.191	153.429	153.666	153.904
260	154.141	154.379	154.616	154.854	155.091	155.328	155.566	155.803	156.041	156.278
270	156.516	156.753	156.991	157.228	157.466	157.703	157.941	158.178	158.415	158.653
280	158.890	159.128	159.365	159.603	159.840	160.078	160.315	160.553	160.790	161.028
290	161.265	161.502	161.740	161.977	162.215	162.452	162.690	162.927	163.165	163.402
300	163.640	163.877	164.114	164.354	164.593	164.833	165.072	165.312	165.551	165.791
310	166.030	166.270	166.509	166.749	166.988	167.228	167.467	167.707	167.946	168.186
320	168.425	168.665	168.904	169.144	169.383	169.623	169.862	170.102	170.341	170.581
330	170.820	171.060	171.299	171.539	171.778	172.018	172.257	172.497	172.736	172.976
340	173.215	173.455	173.694	173.934	174.174	174.413	174.653	174.892	175.132	175.371
350	175.611	175.851	176.090	176.330	176.569	176.809	177.048	177.288	177.528	177.767
360	178.007	178.246	178.486	178.726	178.965	179.205	179.444	179.684	179.924	180.163
370	180.403	180.642	180.882	181.122	181.361	181.601	181.841	182.080	182.320	182.559
380	182.799	183.039	183.278	183.518	183.758	183.997	184.237	184.477	184.716	184.956



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Temperature Range:

-140 to 500°F

-100 to 260°C

Temp	0	1	2	3	4	5	6	7	8	9
390	185.196	185.435	185.675	185.915	186.154	186.394	186.634	186.873	187.113	187.353
400	187.592	187.832	188.072	188.312	188.551	188.791	189.031	189.270	189.510	189.750
410	189.990	190.229	190.469	190.709	190.948	191.188	191.428	191.668	191.907	192.147
420	192.387	192.627	192.866	193.106	193.346	193.586	193.825	194.065	194.305	194.545
430	194.784	195.024	195.264	195.504	195.743	195.983	196.223	196.463	196.703	196.942
440	197.182	197.422	197.662	197.902	198.141	198.381	198.621	198.861	199.101	199.340
450	199.580	199.820	200.060	200.300	200.539	200.779	201.019	201.259	201.499	201.739
460	201.978	202.218	202.458	202.698	202.938	203.178	203.418	203.657	203.897	204.137
470	204.377	204.617	204.857	205.097	205.336	205.576	205.816	206.056	206.296	206.536
480	206.776	207.016	207.256	207.495	207.735	207.975	208.215	208.455	208.695	208.935
490	209.175	209.415	209.655	209.895	210.134	210.374	210.614	210.854	211.094	211.334
500	211.574									

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