



Technical Information Data Bulletin

Nickel 100 Ohms (Cu100)

α 0.00618

Temperature vs Resistance Table

Resistance @ 32°F

Temperature Range:

-76 to 356°F

-60 to 180°C

TEMPERATURE & PROCESS INSTRUMENTS - CON

Temp	0	-1	-2	-3	-4	-5	-6	-7	-8	-9
-70	71.083	70.821	70.560	70.300	70.039	69.780	69.520			
-60	73.722	73.456	73.191	72.926	72.661	72.397	72.133	71.870	71.607	71.345
-50	76.405	76.135	75.865	75.596	75.327	75.058	74.790	74.522	74.255	73.988
-40	79.131	78.857	78.583	78.309	78.036	77.763	77.490	77.218	76.947	76.676
-30	81.900	81.621	81.343	81.065	80.788	80.510	80.234	79.957	79.682	79.406
-20	84.711	84.428	84.146	83.864	83.582	83.301	83.020	82.739	82.459	82.179
-10	87.565	87.277	86.991	86.704	86.418	86.133	85.848	85.563	85.279	84.995
0	90.459	90.168	89.877	89.587	89.296	89.007	88.718	88.429	88.140	87.852
Temp	0	1	2	3	4	5	6	7	8	9
0	90.459	90.751	91.043	91.336	91.629	91.922	92.216	92.510	92.805	93.100
10	93.396	93.691	93.988	94.284	94.582	94.879	95.177	95.475	95.774	96.073
20	96.373	96.673	96.973	97.274	97.575	97.877	98.179	98.482	98.784	99.088
30	99.391	99.696	100.000	100.305	100.610	100.916	101.222	101.529	101.836	102.143
40	102.451	102.759	103.068	103.377	103.686	103.996	104.306	104.617	104.928	105.240
50	105.552	105.864	106.177	106.490	106.803	107.117	107.432	107.746	108.062	108.377
60	108.693	109.010	109.327	109.644	109.962	110.280	110.598	110.917	111.236	111.556
70	111.876	112.197	112.518	112.839	113.161	113.483	113.806	114.129	114.453	114.777
80	115.101	115.426	115.751	116.076	116.402	116.729	117.056	117.383	117.711	118.039
90	118.367	118.696	119.026	119.355	119.686	120.016	120.347	120.679	121.011	121.343
100	121.676	122.009	122.343	122.677	123.011	123.346	123.681	124.017	124.353	124.690
110	125.027	125.364	125.702	126.041	126.379	126.719	127.058	127.398	127.739	128.080
120	128.421	128.763	129.105	129.448	129.791	130.134	130.478	130.823	131.168	131.513
130	131.859	132.205	132.551	132.898	133.246	133.594	133.942	134.291	134.640	134.990
140	135.340	135.691	136.042	136.394	136.746	137.098	137.451	137.804	138.158	138.512
150	138.867	139.222	139.578	139.934	140.290	140.647	141.005	141.362	141.721	142.080
160	142.439	142.799	143.159	143.520	143.881	144.242	144.604	144.967	145.330	145.693
170	146.057	146.422	146.787	147.152	147.518	147.884	148.251	148.618	148.986	149.354
180	149.723	150.092	150.462	150.832	151.202	151.574	151.945	152.317	152.690	153.063
190	153.436	153.810	154.185	154.560	154.936	155.312	155.688	156.065	156.443	156.821
200	157.199	157.578	157.958	158.338	158.718	159.099	159.481	159.863	160.245	160.628
210	161.012	161.396	161.781	162.166	162.551	162.937	163.324	163.711	164.099	164.487
220	164.876	165.265	165.655	166.045	166.436	166.827	167.219	167.612	168.005	168.398
230	168.792	169.187	169.582	169.977	170.374	170.770	171.168	171.565	171.964	172.363
240	172.762	173.162	173.563	173.964	174.365	174.768	175.170	175.574	175.978	176.382
250	176.787	177.193	177.599	178.005	178.413	178.821	179.229	179.638	180.047	180.458
260	180.868	181.280	181.691	182.104	182.517	182.930	183.345	183.759	184.175	184.591
270	185.007	185.424	185.842	186.260	186.679	187.099	187.519	187.940	188.361	188.783
280	189.205	189.629	190.052	190.477	190.902	191.327	191.753	192.180	192.608	193.036
290	193.464	193.894	194.324	194.754	195.185	195.617	196.050	196.483	196.916	197.351
300	197.786	198.221	198.658	199.094	199.532	199.970	200.409	200.849	201.289	201.730
310	202.171	202.613	203.056	203.499	203.944	204.388	204.834	205.280	205.727	206.174
320	206.622	207.071	207.521	207.971	208.422	208.873	209.325	209.778	210.232	210.686
330	211.141	211.597	212.053	212.510	212.968	213.427	213.886	214.346	214.806	215.268
340	215.730	216.192	216.656	217.120	217.585	218.050	218.517	218.984	219.452	219.920
350	220.389	220.859	221.330	221.802	222.274	222.747	223.221			