



# Technical Information Data Bulletin

Copper 9.035 Ohms (Cu9.035)

$\alpha$  0.00427

## Temperature vs Resistance Table

### Resistance @ 32°F

Temperature Range:

-140 to 500°F

-100 to 260°C

TEMPERATURE & PROCESS INSTRUMENTS - CON-

Temp °F	-0	-1	-2	-3	-4	-5	-6	-7	-8	-9
-140	5.3052	5.2831	5.2610	5.2388	5.2167	5.1945	5.1723	5.1502	5.1280	
-130	5.5264	5.5043	5.4822	5.4601	5.4380	5.4159	5.3938	5.3716	5.3495	5.3274
-120	5.7470	5.7250	5.7029	5.6809	5.6588	5.6367	5.6147	5.5926	5.5705	5.5485
-110	5.9672	5.9452	5.9232	5.9012	5.8792	5.8571	5.8351	5.8131	5.7911	5.7690
-100	6.1868	6.1649	6.1429	6.1210	6.0990	6.0770	6.0551	6.0331	6.0111	5.9891
-90	6.4060	6.3841	6.3622	6.3403	6.3184	6.2965	6.2745	6.2526	6.2307	6.2088
-80	6.6247	6.6028	6.5810	6.5591	6.5373	6.5154	6.4935	6.4717	6.4498	6.4279
-70	6.8429	6.8211	6.7993	6.7775	6.7557	6.7338	6.7120	6.6902	6.6684	6.6465
-60	7.0606	7.0389	7.0171	6.9953	6.9736	6.9518	6.9300	6.9083	6.8865	6.8647
-50	7.2757	7.2543	7.2328	7.2114	7.1899	7.1684	7.1470	7.1255	7.1041	7.0824
-40	7.4903	7.4688	7.4474	7.4259	7.4044	7.3830	7.3615	7.3401	7.3186	7.2972
-30	7.7048	7.6834	7.6619	7.6405	7.6190	7.5975	7.5761	7.5546	7.5332	7.5117
-20	7.9194	7.8979	7.8765	7.8550	7.8335	7.8121	7.7906	7.7692	7.7477	7.7263
-10	8.1339	8.1125	8.0910	8.0695	8.0481	8.0266	8.0052	7.9837	7.9623	7.9408
-0	8.3485	8.3270	8.3055	8.2841	8.2626	8.2412	8.2197	8.1983	8.1768	8.1554
Temp	0	1	2	3	4	5	6	7	8	9
0	8.3485	8.3699	8.3914	8.4128	8.4343	8.4557	8.4772	8.4986	8.5201	8.5415
10	8.5630	8.5845	8.6059	8.6274	8.6488	8.6703	8.6917	8.7132	8.7346	8.7561
20	8.7775	8.7990	8.8205	8.8419	8.8634	8.8848	8.9063	8.9277	8.9492	8.9706
30	8.9921	9.0135	9.0	9.0565	9.0779	9.0994	9.1208	9.1423	9.1637	9.1852
40	9.2066	9.2281	9.2495	9.2710	9.2925	9.3139	9.3354	9.3568	9.3783	9.3997
50	9.4212	9.4426	9.4641	9.4855	9.5070	9.5285	9.5499	9.5714	9.5928	9.6143
60	9.6357	9.6572	9.6786	9.7001	9.7215	9.7430	9.7645	9.7859	9.8074	9.8288
70	9.8503	9.8717	9.8932	9.9146	9.9361	9.9575	9.9790	10.0005	10.0219	10.0434
80	10.0648	10.0863	10.1077	10.1292	10.1506	10.1721	10.1935	10.2150	10.2365	10.2579
90	10.2794	10.3008	10.3223	10.3437	10.3652	10.3866	10.4081	10.4295	10.4510	10.4725
100	10.4939	10.5154	10.5368	10.5583	10.5797	10.6012	10.6226	10.6441	10.6656	10.6870
110	10.7085	10.7299	10.7514	10.7728	10.7943	10.8157	10.8372	10.8586	10.8801	10.9016
120	10.9230	10.9445	10.9659	10.9874	11.0088	11.0303	11.0517	11.0732	11.0946	11.1161
130	11.1376	11.1590	11.1805	11.2019	11.2234	11.2448	11.2663	11.2877	11.3092	11.3306
140	11.3521	11.3736	11.3950	11.4165	11.4379	11.4594	11.4808	11.5023	11.5237	11.5452
150	11.5666	11.5881	11.6096	11.6310	11.6525	11.6739	11.6954	11.7168	11.7383	11.7597
160	11.7812	11.8026	11.8241	11.8456	11.8670	11.8885	11.9099	11.9314	11.9528	11.9743
170	11.9957	12.0172	12.0386	12.0601	12.0816	12.1030	12.1245	12.1459	12.1674	12.1888
180	12.2103	12.2317	12.2532	12.2746	12.2961	12.3176	12.3390	12.3605	12.3819	12.4034
190	12.4248	12.4463	12.4677	12.4892	12.5106	12.5321	12.5536	12.5750	12.5965	12.6179
200	12.6394	12.6608	12.6823	12.7037	12.7252	12.7466	12.7681	12.7896	12.8110	12.8325
210	12.8539	12.8754	12.8968	12.9183	12.9397	12.9612	12.9826	13.0041	13.0256	13.0470
220	13.0685	13.0899	13.1114	13.1328	13.1543	13.1757	13.1972	13.2186	13.2401	13.2616
230	13.2830	13.3045	13.3259	13.3474	13.3688	13.3903	13.4117	13.4332	13.4546	13.4761
240	13.4976	13.5190	13.5405	13.5619	13.5834	13.6048	13.6263	13.6477	13.6692	13.6907
250	13.7121	13.7336	13.7550	13.7765	13.7979	13.8194	13.8408	13.8623	13.8837	13.9052
260	13.9267	13.9481	13.9696	13.9910	14.0125	14.0339	14.0554	14.0768	14.0983	14.1197
270	14.1412	14.1627	14.1841	14.2056	14.2270	14.2485	14.2699	14.2914	14.3128	14.3343
280	14.3557	14.3772	14.3987	14.4201	14.4416	14.4630	14.4845	14.5059	14.5274	14.5488
290	14.5703	14.5917	14.6132	14.6347	14.6561	14.6776	14.6990	14.7205	14.7419	14.7634
300	14.7848	14.8063	14.8277	14.8494	14.8710	14.8926	14.9143	14.9359	14.9576	14.9792
310	15.0008	15.0225	15.0441	15.0657	15.0874	15.1090	15.1306	15.1523	15.1739	15.1956
320	15.2172	15.2388	15.2605	15.2821	15.3038	15.3254	15.3470	15.3687	15.3903	15.4120
330	15.4336	15.4552	15.4769	15.4985	15.5202	15.5418	15.5634	15.5851	15.6067	15.6284
340	15.6500	15.6717	15.6933	15.7149	15.7366	15.7582	15.7799	15.8015	15.8232	15.8448
350	15.8665	15.8881	15.9097	15.9314	15.9530	15.9747	15.9963	16.0180	16.0396	16.0613
360	16.0829	16.1046	16.1262	16.1479	16.1695	16.1912	16.2128	16.2344	16.2561	16.2777
370	16.2994	16.3210	16.3427	16.3643	16.3860	16.4076	16.4293	16.4509	16.4726	16.4943



# Technical Information Data Bulletin

## Copper 10 Ohms (Cu10)

$\alpha$  0.00427

### Temperature vs Resistance Table Resistance @ 32°F

Temperature Range:  
-140 to 500°F  
-100 to 260°C

Temp	0	1	2	3	4	5	6	7	8	9
380	16.5159	16.5376	16.5592	16.5809	16.6025	16.6242	16.6458	16.6675	16.6891	16.7108
390	16.7324	16.7541	16.7757	16.7974	16.8190	16.8407	16.8624	16.8840	16.9057	16.9273
390	18.520	18.544	18.568	18.592	18.615	18.639	18.663	18.687	18.711	18.735
400	16.9490	16.9706	16.9923	17.0140	17.0356	17.0573	17.0789	17.1006	17.1222	17.1439
410	17.1656	17.1872	17.2089	17.2305	17.2522	17.2738	17.2955	17.3172	17.3388	17.3605
420	17.3822	17.4038	17.4255	17.4471	17.4688	17.4905	17.5121	17.5338	17.5554	17.5771
430	17.5988	17.6204	17.6421	17.6638	17.6854	17.7071	17.7287	17.7504	17.7721	17.7937
440	17.8154	17.8371	17.8587	17.8804	17.9021	17.9237	17.9454	17.9671	17.9887	18.0104
450	18.0321	18.0537	18.0754	18.0971	18.1187	18.1404	18.1621	18.1837	18.2054	18.2271
460	18.2488	18.2704	18.2921	18.3138	18.3354	18.3571	18.3788	18.4004	18.4221	18.4438
470	18.4655	18.4871	18.5088	18.5305	18.5522	18.5738	18.5955	18.6172	18.6388	18.6605
480	18.6822	18.7039	18.7255	18.7472	18.7689	18.7906	18.8122	18.8339	18.8556	18.8773
490	18.8989	18.9206	18.9423	18.9640	18.9857	19.0073	19.0290	19.0507	19.0724	19.0940
500	19.1157									

TEMPERATURE & PROCESS INSTRUMENTS - INC