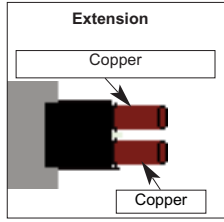




Technical Information Data Bulletin

Type B Thermocouple Platinum-Rhodium

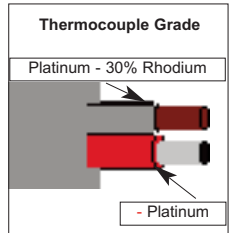
TEMPERATURE & PROCESS INSTRUMENTS - INC



Temperature vs Millivolt Table Reference Junction 32°F

Temperature Range
Maximum Useful Temperature Range:
 Thermocouple Grade: 32 to 3092°F
 -0 to 1700°C
Extension Grade: 32 to 212°F
 0 to 100°C

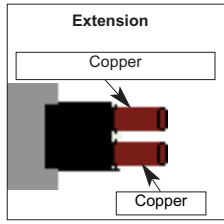
Maximum Thermocouple Grade
Temperature Range
 32 to 3308°F
 0 to 1820°C
Accuracy: Standard: 0.5% over 800°C
 Special: NA



Recommended Applications:

Oxidizing or Inert Environments. Do Not Insert in Metal Tubes, Beware of Contamination, High Temperature Applications.
 Uses Copper Wire for Extension Wire.

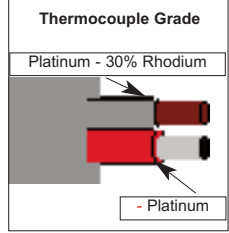
Temp	0	1	2	3	4	5	6	7	8	9
30			0.0000	-0.0001	-0.0003	-0.0004	-0.0005	-0.0006	-0.0008	-0.0009
40	-0.0010	-0.0011	-0.0012	-0.0013	-0.0014	-0.0015	-0.0016	-0.0016	-0.0017	-0.0018
50	-0.0019	-0.0020	-0.0020	-0.0021	-0.0021	-0.0022	-0.0022	-0.0023	-0.0023	-0.0024
60	-0.0024	-0.0024	-0.0025	-0.0025	-0.0025	-0.0025	-0.0026	-0.0026	-0.0026	-0.0026
70	-0.0026	-0.0026	-0.0026	-0.0026	-0.0026	-0.0025	-0.0025	-0.0025	-0.0025	-0.0024
80	-0.0024	-0.0024	-0.0023	-0.0023	-0.0022	-0.0022	-0.0021	-0.0021	-0.0020	-0.0019
90	-0.0019	-0.0018	-0.0017	-0.0016	-0.0015	-0.0015	-0.0014	-0.0013	-0.0012	-0.0011
100	-0.0010	-0.0009	-0.0007	-0.0006	-0.0005	-0.0004	-0.0002	-0.0001	0.0000	0.0002
110	0.0003	0.0005	0.0006	0.0008	0.0009	0.0011	0.0012	0.0014	0.0016	0.0017
120	0.0019	0.0021	0.0023	0.0025	0.0027	0.0029	0.0031	0.0033	0.0035	0.0037
130	0.0039	0.0041	0.0043	0.0045	0.0048	0.0050	0.0052	0.0055	0.0057	0.0060
140	0.0062	0.0065	0.0067	0.0070	0.0072	0.0075	0.0078	0.0080	0.0083	0.0086
150	0.0089	0.0092	0.0094	0.0097	0.0100	0.0103	0.0106	0.0109	0.0113	0.0116
160	0.0119	0.0122	0.0125	0.0129	0.0132	0.0135	0.0139	0.0142	0.0146	0.0149
170	0.0153	0.0156	0.0160	0.0163	0.0167	0.0171	0.0175	0.0178	0.0182	0.0186
180	0.0190	0.0194	0.0198	0.0202	0.0206	0.0210	0.0214	0.0218	0.0222	0.0226
190	0.0230	0.0235	0.0239	0.0243	0.0248	0.0252	0.0257	0.0261	0.0265	0.0270
200	0.0275	0.0279	0.0284	0.0288	0.0293	0.0298	0.0303	0.0308	0.0312	0.0317
210	0.0322	0.0327	0.0332	0.0337	0.0342	0.0347	0.0352	0.0358	0.0363	0.0368
220	0.0373	0.0378	0.0384	0.0389	0.0395	0.0400	0.0405	0.0411	0.0416	0.0422
230	0.0428	0.0433	0.0439	0.0445	0.0450	0.0456	0.0462	0.0468	0.0474	0.0480
240	0.0486	0.0492	0.0498	0.0504	0.0510	0.0516	0.0522	0.0528	0.0534	0.0541
250	0.0547	0.0553	0.0560	0.0566	0.0572	0.0579	0.0585	0.0592	0.0598	0.0605
260	0.0612	0.0618	0.0625	0.0632	0.0638	0.0645	0.0652	0.0659	0.0666	0.0673
270	0.0680	0.0687	0.0694	0.0701	0.0708	0.0715	0.0722	0.0730	0.0737	0.0744
280	0.0751	0.0759	0.0766	0.0773	0.0781	0.0788	0.0796	0.0803	0.0811	0.0819
290	0.0826	0.0834	0.0842	0.0849	0.0857	0.0865	0.0873	0.0881	0.0889	0.0897
300	0.0905	0.0913	0.0921	0.0929	0.0937	0.0945	0.0953	0.0961	0.0970	0.0978
310	0.0986	0.0995	0.1003	0.1011	0.1020	0.1028	0.1037	0.1045	0.1054	0.1063
320	0.1071	0.1080	0.1089	0.1098	0.1106	0.1115	0.1124	0.1133	0.1142	0.1151
330	0.1160	0.1169	0.1178	0.1187	0.1196	0.1205	0.1214	0.1224	0.1233	0.1242
340	0.1252	0.1261	0.1270	0.1280	0.1289	0.1299	0.1308	0.1318	0.1327	0.1337
350	0.1347	0.1356	0.1366	0.1376	0.1386	0.1396	0.1405	0.1415	0.1425	0.1435
360	0.1445	0.1455	0.1465	0.1475	0.1485	0.1496	0.1506	0.1516	0.1526	0.1537
370	0.1547	0.1557	0.1568	0.1578	0.1589	0.1599	0.1610	0.1620	0.1631	0.1641
380	0.1652	0.1663	0.1674	0.1684	0.1695	0.1706	0.1717	0.1728	0.1739	0.1750
390	0.1761	0.1772	0.1783	0.1794	0.1805	0.1816	0.1827	0.1838	0.1850	0.1861
400	0.1872	0.1884	0.1895	0.1906	0.1918	0.1929	0.1941	0.1953	0.1964	0.1976
410	0.1987	0.1999	0.2011	0.2023	0.2034	0.2046	0.2058	0.2070	0.2082	0.2094
420	0.2106	0.2118	0.2130	0.2142	0.2154	0.2166	0.2178	0.2191	0.2203	0.2215
430	0.2227	0.2240	0.2252	0.2265	0.2277	0.2289	0.2302	0.2315	0.2327	0.2340
440	0.2352	0.2365	0.2378	0.2390	0.2403	0.2416	0.2429	0.2442	0.2455	0.2468
450	0.2481	0.2494	0.2507	0.2520	0.2533	0.2546	0.2559	0.2572	0.2586	0.2599
460	0.2612	0.2625	0.2639	0.2652	0.2666	0.2679	0.2693	0.2706	0.2720	0.2733
470	0.2747	0.2760	0.2774	0.2788	0.2802	0.2815	0.2829	0.2843	0.2857	0.2871
480	0.2885	0.2899	0.2913	0.2927	0.2941	0.2955	0.2969	0.2983	0.2998	0.3012
490	0.3026	0.3040	0.3055	0.3069	0.3084	0.3098	0.3112	0.3127	0.3141	0.3156
500	0.3171	0.3185	0.3200	0.3215	0.3229	0.3244	0.3259	0.3274	0.3289	0.3303



Temperature vs Millivolt Table Reference Junction 32°F

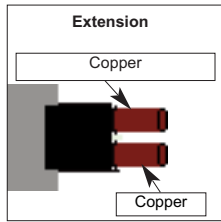
Temperature Range
Maximum Useful Temperature Range:
Thermocouple Grade: 32 to 3092°F
-0 to 1700°C
Extension Grade: 32 to 212°F
0 to 100°C

Maximum Thermocouple Grade
Temperature Range
32 to 3308°F
0 to 1820°C
Accuracy: Standard: 0.5% over 800°C
Special: NA



Recommended Applications:
Oxidizing or Inert Environments. Do Not Insert in Metal Tubes, Beware of Contamination, High Temperature Applications.
Uses Copper Wire for Extension Wire.

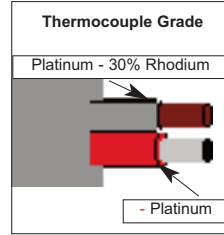
Temp	0	1	2	3	4	5	6	7	8	9
510	0.3318	0.3333	0.3348	0.3363	0.3378	0.3394	0.3409	0.3424	0.3439	0.3454
520	0.3469	0.3485	0.3500	0.3515	0.3531	0.3546	0.3562	0.3577	0.3593	0.3608
530	0.3624	0.3639	0.3655	0.3671	0.3686	0.3702	0.3718	0.3734	0.3749	0.3765
540	0.3781	0.3797	0.3813	0.3829	0.3845	0.3861	0.3877	0.3893	0.3909	0.3926
550	0.3942	0.3958	0.3974	0.3991	0.4007	0.4023	0.4040	0.4056	0.4073	0.4089
560	0.4106	0.4122	0.4139	0.4155	0.4172	0.4189	0.4206	0.4222	0.4239	0.4256
570	0.4273	0.4290	0.4307	0.4323	0.4340	0.4357	0.4375	0.4392	0.4409	0.4426
580	0.4443	0.4460	0.4477	0.4495	0.4512	0.4529	0.4547	0.4564	0.4582	0.4599
590	0.4616	0.4634	0.4652	0.4669	0.4687	0.4704	0.4722	0.4740	0.4758	0.4775
600	0.4793	0.4811	0.4829	0.4847	0.4865	0.4883	0.4901	0.4919	0.4937	0.4955
610	0.4973	0.4991	0.5009	0.5028	0.5046	0.5064	0.5082	0.5101	0.5119	0.5138
620	0.5156	0.5174	0.5193	0.5211	0.5230	0.5249	0.5267	0.5286	0.5305	0.5323
630	0.5342	0.5361	0.5380	0.5399	0.5417	0.5436	0.5455	0.5474	0.5493	0.5512
640	0.5531	0.5551	0.5570	0.5589	0.5608	0.5627	0.5647	0.5666	0.5685	0.5704
650	0.5724	0.5743	0.5763	0.5782	0.5802	0.5821	0.5841	0.5860	0.5880	0.5900
660	0.5919	0.5939	0.5959	0.5979	0.5999	0.6018	0.6038	0.6058	0.6078	0.6098
670	0.6118	0.6138	0.6158	0.6178	0.6199	0.6219	0.6239	0.6259	0.6279	0.6300
680	0.6320	0.6340	0.6361	0.6381	0.6402	0.6422	0.6443	0.6463	0.6484	0.6504
690	0.6525	0.6546	0.6566	0.6587	0.6608	0.6629	0.6650	0.6670	0.6691	0.6712
700	0.6733	0.6754	0.6775	0.6796	0.6817	0.6838	0.6860	0.6881	0.6902	0.6923
710	0.6944	0.6966	0.6987	0.7008	0.7030	0.7051	0.7073	0.7094	0.7116	0.7137
720	0.7159	0.7180	0.7202	0.7224	0.7245	0.7267	0.7289	0.7311	0.7332	0.7354
730	0.7376	0.7398	0.7420	0.7442	0.7464	0.7486	0.7508	0.7530	0.7552	0.7575
740	0.7597	0.7619	0.7641	0.7663	0.7686	0.7708	0.7730	0.7753	0.7775	0.7798
750	0.7820	0.7843	0.7865	0.7888	0.7911	0.7933	0.7956	0.7979	0.8001	0.8024
760	0.8047	0.8070	0.8093	0.8116	0.8138	0.8161	0.8184	0.8207	0.8230	0.8254
770	0.8277	0.8300	0.8323	0.8346	0.8369	0.8393	0.8416	0.8439	0.8463	0.8486
780	0.8509	0.8533	0.8556	0.8580	0.8603	0.8627	0.8651	0.8674	0.8698	0.8722
790	0.8745	0.8769	0.8793	0.8817	0.8840	0.8864	0.8888	0.8912	0.8936	0.8960
800	0.8984	0.9008	0.9032	0.9056	0.9081	0.9105	0.9129	0.9153	0.9177	0.9202
810	0.9226	0.9250	0.9275	0.9299	0.9324	0.9348	0.9373	0.9397	0.9422	0.9446
820	0.9471	0.9496	0.9520	0.9545	0.9570	0.9595	0.9619	0.9644	0.9669	0.9694
830	0.9719	0.9744	0.9769	0.9794	0.9819	0.9844	0.9869	0.9894	0.9919	0.9945
840	0.9970	0.9995	1.0020	1.0046	1.0071	1.0097	1.0122	1.0147	1.0173	1.0198
850	1.0224	1.0249	1.0275	1.0301	1.0326	1.0352	1.0378	1.0403	1.0429	1.0455
860	1.0481	1.0507	1.0533	1.0558	1.0584	1.0610	1.0636	1.0662	1.0689	1.0715
870	1.0741	1.0767	1.0793	1.0819	1.0846	1.0872	1.0898	1.0924	1.0951	1.0977
880	1.1004	1.1030	1.1057	1.1083	1.1110	1.1136	1.1163	1.1189	1.1216	1.1243
890	1.1270	1.1296	1.1323	1.1350	1.1377	1.1404	1.1431	1.1457	1.1484	1.1511
900	1.1538	1.1565	1.1593	1.1620	1.1647	1.1674	1.1701	1.1728	1.1756	1.1783
910	1.1810	1.1838	1.1865	1.1892	1.1920	1.1947	1.1975	1.2002	1.2030	1.2057
920	1.2085	1.2113	1.2140	1.2168	1.2196	1.2223	1.2251	1.2279	1.2307	1.2335
930	1.2363	1.2391	1.2419	1.2447	1.2475	1.2503	1.2531	1.2559	1.2587	1.2615
940	1.2643	1.2671	1.2700	1.2728	1.2756	1.2785	1.2813	1.2841	1.2870	1.2898
950	1.2927	1.2955	1.2984	1.3012	1.3041	1.3070	1.3098	1.3127	1.3156	1.3184
960	1.3213	1.3242	1.3271	1.3300	1.3329	1.3358	1.3386	1.3415	1.3444	1.3474
970	1.3503	1.3532	1.3561	1.3590	1.3619	1.3648	1.3678	1.3707	1.3736	1.3765
980	1.3795	1.3824	1.3854	1.3883	1.3912	1.3942	1.3972	1.4001	1.4031	1.4060
990	1.4090	1.4120	1.4149	1.4179	1.4209	1.4239	1.4268	1.4298	1.4328	1.4358



Temperature vs Millivolt Table Reference Junction 32°F

Temperature Range
 Maximum Useful Temperature Range:
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 -0 to 1700°C
 Extension Grade: 32 to 212°F
 0 to 100°C

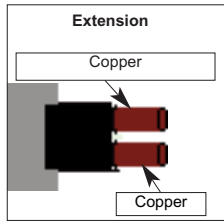
Maximum Thermocouple Grade
 Temperature Range
 32 to 3308°F
 0 to 1820°C
 Accuracy: Standard: 0.5% over 800°C
 Special: NA



Recommended Applications:

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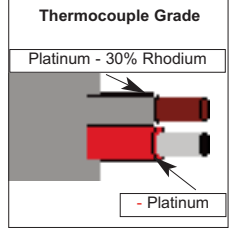
Temp	0	1	2	3	4	5	6	7	8	9
1000	1.4388	1.4418	1.4448	1.4478	1.4508	1.4538	1.4568	1.4598	1.4628	1.4659
1010	1.4689	1.4719	1.4749	1.4780	1.4810	1.4840	1.4871	1.4901	1.4931	1.4962
1020	1.4992	1.5023	1.5054	1.5084	1.5115	1.5145	1.5176	1.5207	1.5237	1.5268
1030	1.5299	1.5330	1.5361	1.5391	1.5422	1.5453	1.5484	1.5515	1.5546	1.5577
1040	1.5608	1.5639	1.5671	1.5702	1.5733	1.5764	1.5795	1.5827	1.5858	1.5889
1050	1.5921	1.5952	1.5983	1.6015	1.6046	1.6078	1.6109	1.6141	1.6172	1.6204
1060	1.6236	1.6267	1.6299	1.6331	1.6362	1.6394	1.6426	1.6458	1.6490	1.6522
1070	1.6553	1.6585	1.6617	1.6649	1.6681	1.6713	1.6745	1.6778	1.6810	1.6842
1080	1.6874	1.6906	1.6938	1.6971	1.7003	1.7035	1.7068	1.7100	1.7133	1.7165
1090	1.7197	1.7230	1.7262	1.7295	1.7328	1.7360	1.7393	1.7425	1.7458	1.7491
1100	1.7524	1.7556	1.7589	1.7622	1.7655	1.7688	1.7721	1.7754	1.7787	1.7820
1110	1.7853	1.7886	1.7919	1.7952	1.7985	1.8018	1.8051	1.8085	1.8118	1.8151
1120	1.8184	1.8218	1.8251	1.8284	1.8318	1.8351	1.8385	1.8418	1.8452	1.8485
1130	1.8519	1.8552	1.8586	1.8620	1.8653	1.8687	1.8721	1.8755	1.8788	1.8822
1140	1.8856	1.8890	1.8924	1.8958	1.8992	1.9026	1.9060	1.9094	1.9128	1.9162
1150	1.9196	1.9230	1.9264	1.9298	1.9333	1.9367	1.9401	1.9436	1.9470	1.9504
1160	1.9539	1.9573	1.9607	1.9642	1.9676	1.9711	1.9746	1.9780	1.9815	1.9849
1170	1.9884	1.9919	1.9953	1.9988	2.0023	2.0058	2.0092	2.0127	2.0162	2.0197
1180	2.0232	2.0267	2.0302	2.0337	2.0372	2.0407	2.0442	2.0477	2.0512	2.0547
1190	2.0582	2.0618	2.0653	2.0688	2.0723	2.0759	2.0794	2.0829	2.0865	2.0900
1200	2.0936	2.0971	2.1007	2.1042	2.1078	2.1113	2.1149	2.1184	2.1220	2.1256
1210	2.1291	2.1327	2.1363	2.1398	2.1434	2.1470	2.1506	2.1542	2.1578	2.1614
1220	2.1650	2.1686	2.1722	2.1758	2.1794	2.1830	2.1866	2.1902	2.1938	2.1974
1230	2.2010	2.2047	2.2083	2.2119	2.2156	2.2192	2.2228	2.2265	2.2301	2.2337
1240	2.2374	2.2410	2.2447	2.2484	2.2520	2.2557	2.2593	2.2630	2.2667	2.2703
1250	2.2740	2.2777	2.2814	2.2850	2.2887	2.2924	2.2961	2.2998	2.3035	2.3072
1260	2.3109	2.3146	2.3183	2.3220	2.3257	2.3294	2.3331	2.3368	2.3406	2.3443
1270	2.3480	2.3517	2.3555	2.3592	2.3629	2.3667	2.3704	2.3742	2.3779	2.3817
1280	2.3854	2.3892	2.3929	2.3967	2.4004	2.4042	2.4080	2.4117	2.4155	2.4193
1290	2.4231	2.4268	2.4306	2.4344	2.4382	2.4420	2.4458	2.4496	2.4534	2.4572
1300	2.4610	2.4648	2.4686	2.4724	2.4762	2.4800	2.4839	2.4877	2.4915	2.4953
1310	2.4992	2.5030	2.5068	2.5107	2.5145	2.5184	2.5222	2.5260	2.5299	2.5338
1320	2.5376	2.5415	2.5453	2.5492	2.5531	2.5569	2.5608	2.5647	2.5685	2.5724
1330	2.5763	2.5802	2.5841	2.5880	2.5919	2.5958	2.5997	2.6036	2.6075	2.6114
1340	2.6153	2.6192	2.6231	2.6270	2.6309	2.6348	2.6388	2.6427	2.6466	2.6506
1350	2.6545	2.6584	2.6624	2.6663	2.6703	2.6742	2.6781	2.6821	2.6861	2.6900
1360	2.6940	2.6979	2.7019	2.7059	2.7098	2.7138	2.7178	2.7218	2.7257	2.7297
1370	2.7337	2.7377	2.7417	2.7457	2.7497	2.7537	2.7577	2.7617	2.7657	2.7697
1380	2.7737	2.7777	2.7817	2.7858	2.7898	2.7938	2.7978	2.8019	2.8059	2.8099
1390	2.8140	2.8180	2.8220	2.8261	2.8301	2.8342	2.8382	2.8423	2.8463	2.8504
1400	2.8545	2.8585	2.8626	2.8667	2.8707	2.8748	2.8789	2.8830	2.8871	2.8911
1410	2.8952	2.8993	2.9034	2.9075	2.9116	2.9157	2.9198	2.9239	2.9280	2.9321
1420	2.9362	2.9404	2.9445	2.9486	2.9527	2.9569	2.9610	2.9651	2.9692	2.9734
1430	2.9775	2.9817	2.9858	2.9900	2.9941	2.9983	3.0024	3.0066	3.0107	3.0149
1440	3.0190	3.0232	3.0274	3.0316	3.0357	3.0399	3.0441	3.0483	3.0524	3.0566
1450	3.0608	3.0650	3.0692	3.0734	3.0776	3.0818	3.0860	3.0902	3.0944	3.0986
1460	3.1029	3.1071	3.1113	3.1155	3.1197	3.1240	3.1282	3.1324	3.1367	3.1409
1470	3.1451	3.1494	3.1536	3.1579	3.1621	3.1664	3.1706	3.1749	3.1791	3.1834



Temperature vs Millivolt Table Reference Junction 32°F

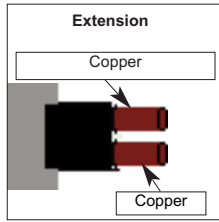
Temperature Range
Maximum Useful Temperature Range:
Thermocouple Grade: 32 to 3092°F
-0 to 1700°C
Extension Grade: 32 to 212°F
0 to 100°C

Maximum Thermocouple Grade Temperature Range
32 to 3308°F
0 to 1820°C
Accuracy: Standard: 0.5% over 800°C
Special: NA



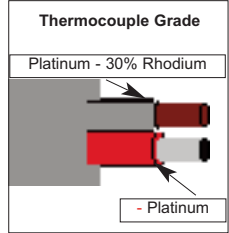
Recommended Applications:
Oxidizing or Inert Environments. Do Not Insert in Metal Tubes, Beware of Contamination, High Temperature Applications.
Uses Copper Wire for Extension Wire.

Temp	0	1	2	3	4	5	6	7	8	9
1480	3.1877	3.1919	3.1962	3.2005	3.2047	3.2090	3.2133	3.2176	3.2219	3.2261
1490	3.2304	3.2347	3.2390	3.2433	3.2476	3.2519	3.2562	3.2605	3.2648	3.2691
1500	3.2735	3.2778	3.2821	3.2864	3.2907	3.2951	3.2994	3.3037	3.3080	3.3124
1510	3.3167	3.3211	3.3254	3.3297	3.3341	3.3384	3.3428	3.3471	3.3515	3.3559
1520	3.3602	3.3646	3.3690	3.3733	3.3777	3.3821	3.3865	3.3908	3.3952	3.3996
1530	3.4040	3.4084	3.4128	3.4172	3.4216	3.4259	3.4304	3.4348	3.4392	3.4436
1540	3.4480	3.4524	3.4568	3.4612	3.4656	3.4701	3.4745	3.4789	3.4833	3.4878
1550	3.4922	3.4967	3.5011	3.5055	3.5100	3.5144	3.5189	3.5233	3.5278	3.5322
1560	3.5367	3.5412	3.5456	3.5501	3.5546	3.5590	3.5635	3.5680	3.5724	3.5769
1570	3.5814	3.5859	3.5904	3.5949	3.5994	3.6039	3.6084	3.6129	3.6174	3.6219
1580	3.6264	3.6309	3.6354	3.6399	3.6444	3.6489	3.6535	3.6580	3.6625	3.6670
1590	3.6716	3.6761	3.6806	3.6852	3.6897	3.6942	3.6988	3.7033	3.7079	3.7124
1600	3.7170	3.7215	3.7261	3.7307	3.7352	3.7398	3.7444	3.7489	3.7535	3.7581
1610	3.7626	3.7672	3.7718	3.7764	3.7810	3.7856	3.7902	3.7947	3.7993	3.8039
1620	3.8085	3.8131	3.8177	3.8223	3.8270	3.8316	3.8362	3.8408	3.8454	3.8500
1630	3.8547	3.8593	3.8639	3.8685	3.8732	3.8778	3.8824	3.8871	3.8917	3.8964
1640	3.9010	3.9057	3.9103	3.9150	3.9196	3.9243	3.9289	3.9336	3.9383	3.9429
1650	3.9476	3.9523	3.9570	3.9616	3.9663	3.9710	3.9757	3.9804	3.9850	3.9897
1660	3.9944	3.9991	4.0038	4.0085	4.0132	4.0179	4.0226	4.0273	4.0320	4.0368
1670	4.0415	4.0462	4.0509	4.0556	4.0603	4.0651	4.0698	4.0745	4.0793	4.0840
1680	4.0887	4.0935	4.0982	4.1030	4.1077	4.1125	4.1172	4.1220	4.1267	4.1315
1690	4.1362	4.1410	4.1458	4.1505	4.1553	4.1601	4.1648	4.1696	4.1744	4.1792
1700	4.1839	4.1887	4.1935	4.1983	4.2031	4.2079	4.2127	4.2175	4.2223	4.2271
1710	4.2319	4.2367	4.2415	4.2463	4.2511	4.2559	4.2608	4.2656	4.2704	4.2752
1720	4.2801	4.2849	4.2897	4.2945	4.2994	4.3042	4.3091	4.3139	4.3187	4.3236
1730	4.3284	4.3333	4.3381	4.3430	4.3479	4.3527	4.3576	4.3624	4.3673	4.3722
1740	4.3770	4.3819	4.3868	4.3917	4.3966	4.4014	4.4063	4.4112	4.4161	4.4210
1750	4.4259	4.4308	4.4357	4.4406	4.4455	4.4504	4.4553	4.4602	4.4651	4.4700
1760	4.4749	4.4798	4.4847	4.4897	4.4946	4.4995	4.5044	4.5094	4.5143	4.5192
1770	4.5242	4.5291	4.5340	4.5390	4.5439	4.5489	4.5538	4.5588	4.5637	4.5687
1780	4.5736	4.5786	4.5836	4.5885	4.5935	4.5985	4.6034	4.6084	4.6134	4.6184
1790	4.6233	4.6283	4.6333	4.6383	4.6433	4.6483	4.6532	4.6582	4.6632	4.6682
1800	4.6732	4.6782	4.6832	4.6882	4.6933	4.6983	4.7033	4.7083	4.7133	4.7183
1810	4.7233	4.7284	4.7334	4.7384	4.7435	4.7485	4.7535	4.7586	4.7636	4.7686
1820	4.7737	4.7787	4.7838	4.7888	4.7939	4.7989	4.8040	4.8090	4.8141	4.8191
1830	4.8242	4.8293	4.8343	4.8394	4.8445	4.8496	4.8546	4.8597	4.8648	4.8699
1840	4.8750	4.8800	4.8851	4.8902	4.8953	4.9004	4.9055	4.9106	4.9157	4.9208
1850	4.9259	4.9310	4.9361	4.9412	4.9464	4.9515	4.9566	4.9617	4.9668	4.9719
1860	4.9771	4.9822	4.9873	4.9925	4.9976	5.0027	5.0079	5.0130	5.0181	5.0233
1870	5.0284	5.0336	5.0387	5.0439	5.0490	5.0542	5.0594	5.0645	5.0697	5.0748
1880	5.0800	5.0852	5.0904	5.0955	5.1007	5.1059	5.1111	5.1162	5.1214	5.1266
1890	5.1318	5.1370	5.1422	5.1474	5.1526	5.1578	5.1630	5.1682	5.1734	5.1786
1900	5.1838	5.1890	5.1942	5.1994	5.2046	5.2098	5.2151	5.2203	5.2255	5.2307
1910	5.2360	5.2412	5.2464	5.2516	5.2569	5.2621	5.2674	5.2726	5.2778	5.2831
1920	5.2883	5.2936	5.2988	5.3041	5.3093	5.3146	5.3199	5.3251	5.3304	5.3356
1930	5.3409	5.3462	5.3515	5.3567	5.3620	5.3673	5.3726	5.3778	5.3831	5.3884
1940	5.3937	5.3990	5.4043	5.4096	5.4149	5.4202	5.4255	5.4308	5.4361	5.4414
1950	5.4467	5.4520	5.4573	5.4626	5.4679	5.4732	5.4786	5.4839	5.4892	5.4945



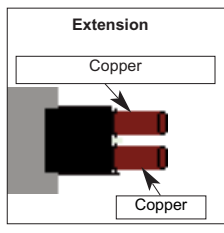
Temperature vs Millivolt Table Reference Junction 32°F

Temperature Range	Maximum Thermocouple Grade Temperature Range
Maximum Useful Temperature Range:	Temperature Range
Thermocouple Grade: 32 to 3092°F	32 to 3308°F
-0 to 1700°C	0 to 1820°C
Extension Grade: 32 to 212°F	Accuracy: Standard: 0.5% over 800°C
0 to 100°C	Special: NA



Recommended Applications:
Oxidizing or Inert Environments. Do Not Insert in Metal Tubes, Beware of Contamination, High Temperature Applications.
Uses Copper Wire for Extension Wire.

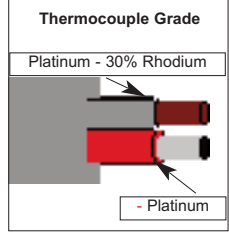
Temp	0	1	2	3	4	5	6	7	8	9
1960	5.4999	5.5052	5.5105	5.5159	5.5212	5.5265	5.5319	5.5372	5.5425	5.5479
1970	5.5532	5.5586	5.5639	5.5693	5.5746	5.5800	5.5854	5.5907	5.5961	5.6014
1980	5.6068	5.6122	5.6175	5.6229	5.6283	5.6337	5.6390	5.6444	5.6498	5.6552
1990	5.6606	5.6660	5.6713	5.6767	5.6821	5.6875	5.6929	5.6983	5.7037	5.7091
2000	5.7145	5.7199	5.7253	5.7307	5.7362	5.7416	5.7470	5.7524	5.7578	5.7632
2010	5.7687	5.7741	5.7795	5.7850	5.7904	5.7958	5.8013	5.8067	5.8121	5.8176
2020	5.8230	5.8285	5.8339	5.8393	5.8448	5.8502	5.8557	5.8612	5.8666	5.8721
2030	5.8775	5.8830	5.8885	5.8939	5.8994	5.9049	5.9103	5.9158	5.9213	5.9268
2040	5.9323	5.9377	5.9432	5.9487	5.9542	5.9597	5.9652	5.9707	5.9762	5.9817
2050	5.9872	5.9927	5.9982	6.0037	6.0092	6.0147	6.0202	6.0257	6.0312	6.0367
2060	6.0423	6.0478	6.0533	6.0588	6.0643	6.0699	6.0754	6.0809	6.0865	6.0920
2070	6.0975	6.1031	6.1086	6.1142	6.1197	6.1252	6.1308	6.1363	6.1419	6.1474
2080	6.1530	6.1586	6.1641	6.1697	6.1752	6.1808	6.1864	6.1919	6.1975	6.2031
2090	6.2086	6.2142	6.2198	6.2254	6.2309	6.2365	6.2421	6.2477	6.2533	6.2589
2100	6.2645	6.2701	6.2757	6.2813	6.2868	6.2924	6.2981	6.3037	6.3093	6.3149
2110	6.3205	6.3261	6.3317	6.3373	6.3429	6.3485	6.3542	6.3598	6.3654	6.3710
2120	6.3767	6.3823	6.3879	6.3936	6.3992	6.4048	6.4105	6.4161	6.4217	6.4274
2130	6.4330	6.4387	6.4443	6.4500	6.4556	6.4613	6.4669	6.4726	6.4783	6.4839
2140	6.4896	6.4952	6.5009	6.5066	6.5122	6.5179	6.5236	6.5293	6.5349	6.5406
2150	6.5463	6.5520	6.5577	6.5634	6.5690	6.5747	6.5804	6.5861	6.5918	6.5975
2160	6.6032	6.6089	6.6146	6.6203	6.6260	6.6317	6.6374	6.6431	6.6488	6.6546
2170	6.6603	6.6660	6.6717	6.6774	6.6831	6.6889	6.6946	6.7003	6.7061	6.7118
2180	6.7175	6.7232	6.7290	6.7347	6.7405	6.7462	6.7519	6.7577	6.7634	6.7692
2190	6.7749	6.7807	6.7864	6.7922	6.7979	6.8037	6.8095	6.8152	6.8210	6.8267
2200	6.8325	6.8383	6.8441	6.8498	6.8556	6.8614	6.8671	6.8729	6.8787	6.8845
2210	6.8903	6.8961	6.9018	6.9076	6.9134	6.9192	6.9250	6.9308	6.9366	6.9424
2220	6.9482	6.9540	6.9598	6.9656	6.9714	6.9772	6.9830	6.9888	6.9946	7.0005
2230	7.0063	7.0121	7.0179	7.0237	7.0296	7.0354	7.0412	7.0470	7.0529	7.0587
2240	7.0645	7.0704	7.0762	7.0820	7.0879	7.0937	7.0996	7.1054	7.1113	7.1171
2250	7.1229	7.1288	7.1347	7.1405	7.1464	7.1522	7.1581	7.1639	7.1698	7.1757
2260	7.1815	7.1874	7.1933	7.1991	7.2050	7.2109	7.2168	7.2226	7.2285	7.2344
2270	7.2403	7.2462	7.2520	7.2579	7.2638	7.2697	7.2756	7.2815	7.2874	7.2933
2280	7.2992	7.3051	7.3110	7.3169	7.3228	7.3287	7.3346	7.3405	7.3464	7.3523
2290	7.3582	7.3641	7.3701	7.3760	7.3819	7.3878	7.3937	7.3997	7.4056	7.4115
2300	7.4174	7.4234	7.4293	7.4352	7.4412	7.4471	7.4530	7.4590	7.4649	7.4709
2310	7.4768	7.4828	7.4887	7.4946	7.5006	7.5065	7.5125	7.5185	7.5244	7.5304
2320	7.5363	7.5423	7.5482	7.5542	7.5602	7.5661	7.5721	7.5781	7.5841	7.5900
2330	7.5960	7.6020	7.6080	7.6139	7.6199	7.6259	7.6319	7.6379	7.6438	7.6498
2340	7.6558	7.6618	7.6678	7.6738	7.6798	7.6858	7.6918	7.6978	7.7038	7.7098
2350	7.7158	7.7218	7.7278	7.7338	7.7398	7.7458	7.7518	7.7579	7.7639	7.7699
2360	7.7759	7.7819	7.7880	7.7940	7.8000	7.8060	7.8121	7.8181	7.8241	7.8301
2370	7.8362	7.8422	7.8482	7.8543	7.8603	7.8664	7.8724	7.8784	7.8845	7.8905
2380	7.8966	7.9026	7.9087	7.9147	7.9208	7.9268	7.9329	7.9390	7.9450	7.9511
2390	7.9571	7.9632	7.9693	7.9753	7.9814	7.9875	7.9935	7.9996	8.0057	8.0117
2400	8.0178	8.0239	8.0300	8.0361	8.0421	8.0482	8.0543	8.0604	8.0665	8.0726
2410	8.0786	8.0847	8.0908	8.0969	8.1030	8.1091	8.1152	8.1213	8.1274	8.1335
2420	8.1396	8.1457	8.1518	8.1579	8.1640	8.1701	8.1763	8.1824	8.1885	8.1946
2430	8.2007	8.2068	8.2129	8.2191	8.2252	8.2313	8.2374	8.2436	8.2497	8.2558
2440	8.2619	8.2681	8.2742	8.2803	8.2865	8.2926	8.2987	8.3049	8.3110	8.3172



Temperature vs Millivolt Table Reference Junction 32°F

Temperature Range
 Maximum Useful Temperature Range:
 Thermocouple Grade: 32 to 3092°F
 -0 to 1700°C
 Extension Grade: 32 to 212°F
 0 to 100°C

Maximum Thermocouple Grade
 Temperature Range
 32 to 3308°F
 0 to 1820°C
Accuracy: Standard: 0.5% over 800°C
 Special: NA



Recommended Applications:
 Oxidizing or Inert Environments. Do Not Insert in Metal Tubes, Beware of Contamination, High Temperature Applications.
 Uses Copper Wire for Extension Wire.

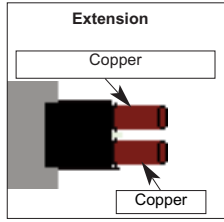
Temp	0	1	2	3	4	5	6	7	8	9
2450	8.3233	8.3294	8.3356	8.3417	8.3479	8.3540	8.3602	8.3663	8.3725	8.3786
2460	8.3848	8.3909	8.3971	8.4033	8.4094	8.4156	8.4217	8.4279	8.4341	8.4402
2470	8.4464	8.4526	8.4588	8.4649	8.4711	8.4773	8.4834	8.4896	8.4958	8.5020
2480	8.5082	8.5143	8.5205	8.5267	8.5329	8.5391	8.5453	8.5514	8.5576	8.5638
2490	8.5700	8.5762	8.5824	8.5886	8.5948	8.6010	8.6072	8.6134	8.6196	8.6258
2500	8.6320	8.6382	8.6444	8.6506	8.6568	8.6630	8.6693	8.6755	8.6817	8.6879
2510	8.6941	8.7003	8.7066	8.7128	8.7190	8.7252	8.7314	8.7377	8.7439	8.7501
2520	8.7563	8.7626	8.7688	8.7750	8.7813	8.7875	8.7937	8.8000	8.8062	8.8124
2530	8.8187	8.8249	8.8312	8.8374	8.8436	8.8499	8.8561	8.8624	8.8686	8.8749
2540	8.8811	8.8874	8.8936	8.8999	8.9061	8.9124	8.9187	8.9249	8.9312	8.9374
2550	8.9437	8.9500	8.9562	8.9625	8.9688	8.9750	8.9813	8.9876	8.9938	9.0001
2560	9.0064	9.0126	9.0189	9.0252	9.0315	9.0377	9.0440	9.0503	9.0566	9.0629
2570	9.0691	9.0754	9.0817	9.0880	9.0943	9.1006	9.1069	9.1132	9.1194	9.1257
2580	9.1320	9.1383	9.1446	9.1509	9.1572	9.1635	9.1698	9.1761	9.1824	9.1887
2590	9.1950	9.2013	9.2076	9.2139	9.2202	9.2265	9.2329	9.2392	9.2455	9.2518
2600	9.2581	9.2644	9.2707	9.2770	9.2834	9.2897	9.2960	9.3023	9.3086	9.3150
2610	9.3213	9.3276	9.3339	9.3403	9.3466	9.3529	9.3592	9.3656	9.3719	9.3782
2620	9.3846	9.3909	9.3972	9.4036	9.4099	9.4162	9.4226	9.4289	9.4352	9.4416
2630	9.4479	9.4543	9.4606	9.4670	9.4733	9.4797	9.4860	9.4923	9.4987	9.5050
2640	9.5114	9.5177	9.5241	9.5304	9.5368	9.5432	9.5495	9.5559	9.5622	9.5686
2650	9.5749	9.5813	9.5877	9.5940	9.6004	9.6067	9.6131	9.6195	9.6258	9.6322
2660	9.6386	9.6449	9.6513	9.6577	9.6641	9.6704	9.6768	9.6832	9.6895	9.6959
2670	9.7023	9.7087	9.7150	9.7214	9.7278	9.7342	9.7406	9.7469	9.7533	9.7597
2680	9.7661	9.7725	9.7789	9.7853	9.7916	9.7980	9.8044	9.8108	9.8172	9.8236
2690	9.8300	9.8364	9.8428	9.8492	9.8555	9.8619	9.8683	9.8747	9.8811	9.8875
2700	9.8939	9.9003	9.9067	9.9131	9.9195	9.9259	9.9323	9.9387	9.9451	9.9515
2710	9.9580	9.9644	9.9708	9.9772	9.9836	9.9900	9.9964	10.0028	10.0092	10.0156
2720	10.0221	10.0285	10.0349	10.0413	10.0477	10.0541	10.0605	10.0670	10.0734	10.0798
2730	10.0862	10.0926	10.0991	10.1055	10.1119	10.1183	10.1248	10.1312	10.1376	10.1440
2740	10.1505	10.1569	10.1633	10.1697	10.1762	10.1826	10.1890	10.1955	10.2019	10.2083
2750	10.2148	10.2212	10.2276	10.2341	10.2405	10.2469	10.2534	10.2598	10.2662	10.2727
2760	10.2791	10.2855	10.2920	10.2984	10.3049	10.3113	10.3178	10.3242	10.3306	10.3371
2770	10.3435	10.3500	10.3564	10.3629	10.3693	10.3758	10.3822	10.3887	10.3951	10.4015
2780	10.4080	10.4144	10.4209	10.4274	10.4338	10.4403	10.4467	10.4532	10.4596	10.4661
2790	10.4725	10.4790	10.4854	10.4919	10.4983	10.5048	10.5113	10.5177	10.5242	10.5306
2800	10.5371	10.5436	10.5500	10.5565	10.5629	10.5694	10.5759	10.5823	10.5888	10.5953
2810	10.6017	10.6082	10.6147	10.6211	10.6276	10.6341	10.6405	10.6470	10.6535	10.6599
2820	10.6664	10.6729	10.6793	10.6858	10.6923	10.6987	10.7052	10.7117	10.7182	10.7246
2830	10.7311	10.7376	10.7441	10.7505	10.7570	10.7635	10.7700	10.7764	10.7829	10.7894
2840	10.7959	10.8023	10.8088	10.8153	10.8218	10.8282	10.8347	10.8412	10.8477	10.8542
2850	10.8606	10.8671	10.8736	10.8801	10.8866	10.8931	10.8995	10.9060	10.9125	10.9190
2860	10.9255	10.9320	10.9384	10.9449	10.9514	10.9579	10.9644	10.9709	10.9774	10.9838
2870	10.9903	10.9968	11.0033	11.0098	11.0163	11.0228	11.0293	11.0357	11.0422	11.0487
2880	11.0552	11.0617	11.0682	11.0747	11.0812	11.0877	11.0942	11.1006	11.1071	11.1136
2890	11.1201	11.1266	11.1331	11.1396	11.1461	11.1526	11.1591	11.1656	11.1721	11.1786
2900	11.1851	11.1915	11.1980	11.2045	11.2110	11.2175	11.2240	11.2305	11.2370	11.2435
2910	11.2500	11.2565	11.2630	11.2695	11.2760	11.2825	11.2890	11.2955	11.3020	11.3085
2920	11.3150	11.3215	11.3280	11.3345	11.3410	11.3475	11.3540	11.3605	11.3670	11.3735



Technical Information Data Bulletin

Type B Thermocouple Platinum-Rhodium

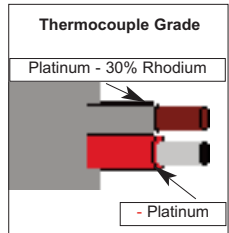
TEMPERATURE & PROCESS INSTRUMENTS - INC.



Temperature vs Millivolt Table Reference Junction 32°F

Temperature Range
Maximum Useful Temperature Range:
Thermocouple Grade: 32 to 3092°F
 -0 to 1700°C
Extension Grade: 32 to 212°F
 0 to 100°C

Maximum Thermocouple Grade
Temperature Range
 32 to 3308°F
 0 to 1820°C
Accuracy: Standard: 0.5% over 800°C
 Special: NA



Recommended Applications:

Oxidizing or Inert Environments. Do Not Insert in Metal Tubes, Beware of Contamination, High Temperature Applications.
 Uses Copper Wire for Extension Wire.

Temp	0	1	2	3	4	5	6	7	8	9
2930	11.3800	11.3865	11.3930	11.3995	11.4060	11.4125	11.4190	11.4255	11.4320	11.4385
2940	11.4450	11.4515	11.4580	11.4645	11.4710	11.4775	11.4840	11.4905	11.4970	11.5035
2950	11.5100	11.5165	11.5230	11.5295	11.5360	11.5425	11.5490	11.5555	11.5620	11.5685
2960	11.5750	11.5815	11.5880	11.5945	11.6010	11.6075	11.6140	11.6205	11.6270	11.6335
2970	11.6400	11.6465	11.6530	11.6595	11.6660	11.6725	11.6790	11.6855	11.6920	11.6985
2980	11.7050	11.7115	11.7180	11.7246	11.7311	11.7376	11.7441	11.7506	11.7571	11.7636
2990	11.7701	11.7766	11.7831	11.7896	11.7961	11.8026	11.8091	11.8156	11.8221	11.8286
3000	11.8351	11.8416	11.8481	11.8546	11.8611	11.8676	11.8741	11.8806	11.8871	11.8936
3010	11.9001	11.9066	11.9131	11.9196	11.9261	11.9326	11.9391	11.9456	11.9521	11.9586
3020	11.9651	11.9716	11.9781	11.9846	11.9911	11.9976	12.0041	12.0106	12.0171	12.0236
3030	12.0301	12.0366	12.0431	12.0496	12.0561	12.0626	12.0691	12.0756	12.0821	12.0886
3040	12.0951	12.1015	12.1080	12.1145	12.1210	12.1275	12.1340	12.1405	12.1470	12.1535
3050	12.1600	12.1665	12.1730	12.1795	12.1860	12.1925	12.1990	12.2055	12.2120	12.2184
3060	12.2249	12.2314	12.2379	12.2444	12.2509	12.2574	12.2639	12.2704	12.2769	12.2834
3070	12.2898	12.2963	12.3028	12.3093	12.3158	12.3223	12.3288	12.3353	12.3418	12.3482
3080	12.3547	12.3612	12.3677	12.3742	12.3807	12.3872	12.3936	12.4001	12.4066	12.4131
3090	12.4196	12.4261	12.4325	12.4390	12.4455	12.4520	12.4585	12.4650	12.4714	12.4779
3100	12.4844	12.4909	12.4974	12.5038	12.5103	12.5168	12.5233	12.5297	12.5362	12.5427
3110	12.5492	12.5557	12.5621	12.5686	12.5751	12.5816	12.5880	12.5945	12.6010	12.6075
3120	12.6139	12.6204	12.6269	12.6333	12.6398	12.6463	12.6528	12.6592	12.6657	12.6722
3130	12.6786	12.6851	12.6916	12.6980	12.7045	12.7110	12.7174	12.7239	12.7304	12.7368
3140	12.7433	12.7498	12.7562	12.7627	12.7691	12.7756	12.7821	12.7885	12.7950	12.8014
3150	12.8079	12.8144	12.8208	12.8273	12.8337	12.8402	12.8466	12.8531	12.8596	12.8660
3160	12.8725	12.8789	12.8854	12.8918	12.8983	12.9047	12.9112	12.9176	12.9241	12.9305
3170	12.9370	12.9434	12.9499	12.9563	12.9628	12.9692	12.9757	12.9821	12.9885	12.9950
3180	13.0014	13.0079	13.0143	13.0208	13.0272	13.0336	13.0401	13.0465	13.0530	13.0594
3190	13.0658	13.0723	13.0787	13.0851	13.0916	13.0980	13.1044	13.1109	13.1173	13.1237
3200	13.1302	13.1366	13.1430	13.1495	13.1559	13.1623	13.1687	13.1752	13.1816	13.1880
3210	13.1944	13.2009	13.2073	13.2137	13.2201	13.2265	13.2330	13.2394	13.2458	13.2522
3220	13.2586	13.2651	13.2715	13.2779	13.2843	13.2907	13.2971	13.3035	13.3100	13.3164
3230	13.3228	13.3292	13.3356	13.3420	13.3484	13.3548	13.3612	13.3676	13.3740	13.3804
3240	13.3868	13.3932	13.3996	13.4060	13.4124	13.4188	13.4252	13.4316	13.4380	13.4444
3250	13.4508	13.4572	13.4636	13.4700	13.4764	13.4828	13.4892	13.4956	13.5019	13.5083
3260	13.5147	13.5211	13.5275	13.5339	13.5403	13.5466	13.5530	13.5594	13.5658	13.5722
3270	13.5785	13.5849	13.5913	13.5977	13.6041	13.6104	13.6168	13.6232	13.6295	13.6359
3280	13.6423	13.6487	13.6550	13.6614	13.6678	13.6741	13.6805	13.6869	13.6932	13.6996
3290	13.7059	13.7123	13.7187	13.7250	13.7314	13.7377	13.7441	13.7504	13.7568	13.7631
3300	13.7695	13.7758	13.7822	13.7885	13.7949	13.8012	13.8076	13.8139	13.8203	