

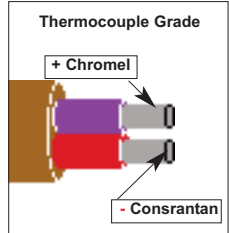
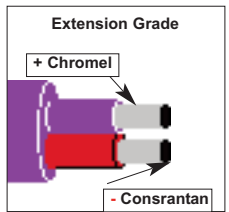


Technical Information Data Bulletin

Type E Thermocouple Chromel-Constantan

TEMPERATURE & PROCESS INSTRUMENTS - CONZ

Temperature vs Millivolt Table Reference Junction 32°F



Temperature Range
Maximum Useful Temperature Range:
Thermocouple Grade: -328 to 1652°F
-200 to 900°C
Extension Grade: 32 to 392°F
0 to 200°C

Maximum Thermocouple Grade
Temperature Range
-454 to 1832°F
-270 to 1000°C
Accuracy: Standard: 1.7°C or 0.5%
Special: 1.0°C or 0.4%

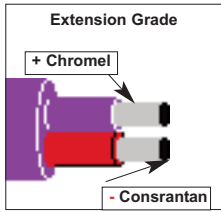
Recommended Applications:
Oxidizing or Inert. Limited Use in Vacuum or Reducing Environments.

Temp	0	-1	-2	-3	-4	-5	-6	-7	-8	-9
-450	-9.8303	-9.8317	-9.8329	-9.8340	-9.8350					
-440	-9.8088	-9.8115	-9.8141	-9.8166	-9.8190	-9.8212	-9.8233	-9.8252	-9.8270	-9.8287
-430	-9.7747	-9.7786	-9.7825	-9.7862	-9.7898	-9.7932	-9.7966	-9.7998	-9.8029	-9.8059
-420	-9.7289	-9.7340	-9.7390	-9.7439	-9.7486	-9.7532	-9.7578	-9.7622	-9.7665	-9.7706
-410	-9.6719	-9.6781	-9.6842	-9.6902	-9.6960	-9.7018	-9.7075	-9.7130	-9.7184	-9.7237
-400	-9.6039	-9.6112	-9.6184	-9.6255	-9.6324	-9.6393	-9.6460	-9.6527	-9.6592	-9.6656
-390	-9.5253	-9.5337	-9.5419	-9.5500	-9.5580	-9.5659	-9.5738	-9.5815	-9.5891	-9.5966
-380	-9.4364	-9.4458	-9.4550	-9.4641	-9.4732	-9.4821	-9.4910	-9.4997	-9.5084	-9.5169
-370	-9.3376	-9.3479	-9.3582	-9.3683	-9.3783	-9.3882	-9.3981	-9.4078	-9.4174	-9.4270
-360	-9.2294	-9.2406	-9.2518	-9.2628	-9.2738	-9.2847	-9.2955	-9.3061	-9.3167	-9.3272
-350	-9.1122	-9.1243	-9.1363	-9.1483	-9.1601	-9.1719	-9.1836	-9.1952	-9.2067	-9.2181
-340	-8.9864	-8.9993	-9.0122	-9.0250	-9.0377	-9.0503	-9.0629	-9.0753	-9.0877	-9.1000
-330	-8.8523	-8.8661	-8.8798	-8.8934	-8.9069	-8.9204	-8.9337	-8.9470	-8.9602	-8.9733
-320	-8.7104	-8.7250	-8.7394	-8.7538	-8.7681	-8.7824	-8.7965	-8.8106	-8.8246	-8.8385
-310	-8.5609	-8.5762	-8.5914	-8.6066	-8.6216	-8.6366	-8.6515	-8.6664	-8.6811	-8.6958
-300	-8.4041	-8.4201	-8.4360	-8.4519	-8.4677	-8.4834	-8.4990	-8.5146	-8.5301	-8.5456
-290	-8.2401	-8.2568	-8.2734	-8.2900	-8.3065	-8.3229	-8.3393	-8.3556	-8.3718	-8.3880
-280	-8.0691	-8.0865	-8.1039	-8.1211	-8.1383	-8.1555	-8.1725	-8.1895	-8.2064	-8.2233
-270	-7.8914	-7.9095	-7.9275	-7.9454	-7.9633	-7.9811	-7.9989	-8.0165	-8.0341	-8.0517
-260	-7.7072	-7.7259	-7.7445	-7.7631	-7.7816	-7.8001	-7.8185	-7.8368	-7.8551	-7.8733
-250	-7.5165	-7.5358	-7.5551	-7.5743	-7.5935	-7.6126	-7.6316	-7.6506	-7.6695	-7.6884
-240	-7.3195	-7.3395	-7.3594	-7.3792	-7.3990	-7.4187	-7.4384	-7.4580	-7.4776	-7.4970
-230	-7.1164	-7.1370	-7.1575	-7.1779	-7.1983	-7.2187	-7.2390	-7.2592	-7.2793	-7.2994
-220	-6.9073	-6.9285	-6.9496	-6.9707	-6.9917	-7.0126	-7.0335	-7.0543	-7.0751	-7.0957
-210	-6.6924	-6.7142	-6.7359	-6.7575	-6.7791	-6.8006	-6.8221	-6.8435	-6.8648	-6.8861
-200	-6.4718	-6.4941	-6.5164	-6.5386	-6.5607	-6.5828	-6.6049	-6.6268	-6.6488	-6.6706
-190	-6.2456	-6.2685	-6.2913	-6.3141	-6.3368	-6.3594	-6.3820	-6.4046	-6.4270	-6.4495
-180	-6.0140	-6.0374	-6.0607	-6.0841	-6.1073	-6.1305	-6.1536	-6.1767	-6.1997	-6.2227
-170	-5.7770	-5.8009	-5.8248	-5.8486	-5.8724	-5.8961	-5.9198	-5.9434	-5.9670	-5.9905
-160	-5.5347	-5.5592	-5.5836	-5.6079	-5.6322	-5.6565	-5.6807	-5.7048	-5.7289	-5.7530
-150	-5.2873	-5.3123	-5.3372	-5.3620	-5.3869	-5.4116	-5.4363	-5.4610	-5.4856	-5.5102
-140	-5.0348	-5.0603	-5.0857	-5.1111	-5.1364	-5.1617	-5.1869	-5.2121	-5.2372	-5.2623
-130	-4.7774	-4.8034	-4.8293	-4.8551	-4.8809	-4.9067	-4.9324	-4.9581	-4.9837	-5.0093
-120	-4.5151	-4.5416	-4.5680	-4.5943	-4.6206	-4.6469	-4.6731	-4.6992	-4.7253	-4.7514
-110	-4.2481	-4.2750	-4.3019	-4.3287	-4.3555	-4.3822	-4.4089	-4.4355	-4.4621	-4.4886
-100	-3.9765	-4.0039	-4.0312	-4.0585	-4.0857	-4.1129	-4.1400	-4.1671	-4.1942	-4.2212
-90	-3.7003	-3.7281	-3.7559	-3.7836	-3.8113	-3.8390	-3.8666	-3.8941	-3.9216	-3.9491
-80	-3.4197	-3.4480	-3.4762	-3.5043	-3.5325	-3.5606	-3.5886	-3.6166	-3.6445	-3.6724
-70	-3.1347	-3.1634	-3.1921	-3.2207	-3.2492	-3.2778	-3.3062	-3.3347	-3.3631	-3.3914
-60	-2.8456	-2.8747	-2.9037	-2.9328	-2.9617	-2.9907	-3.0196	-3.0484	-3.0772	-3.1060
-50	-2.5522	-2.5817	-2.6112	-2.6407	-2.6700	-2.6994	-2.7287	-2.7580	-2.7872	-2.8164
-40	-2.2548	-2.2847	-2.3146	-2.3445	-2.3743	-2.4040	-2.4337	-2.4634	-2.4931	-2.5227
-30	-1.9534	-1.9837	-2.0140	-2.0443	-2.0745	-2.1046	-2.1347	-2.1648	-2.1949	-2.2249
-20	-1.6481	-1.6788	-1.7095	-1.7401	-1.7707	-1.8013	-1.8318	-1.8622	-1.8927	-1.9231
-10	-1.3389	-1.3700	-1.4011	-1.4321	-1.4631	-1.4940	-1.5249	-1.5558	-1.5866	-1.6174
0	-1.0260	-1.0574	-1.0889	-1.1203	-1.1516	-1.1829	-1.2142	-1.2455	-1.2767	-1.3078

Type E Thermocouple Chromel-Constantan

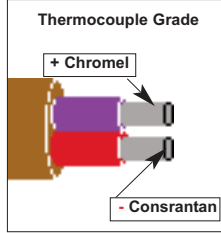
TEMPERATURE & PROCESS INSTRUMENTS - CONZ

Temperature vs Millivolt Table Reference Junction 32°F



Temperature Range
Maximum Useful Temperature Range:
Thermocouple Grade: -328 to 1652°F
 -200 to 900°C
Extension Grade: 32 to 392°F
 0 to 200°C

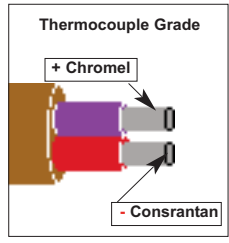
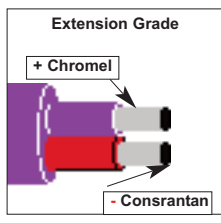
Maximum Thermocouple Grade Temperature Range
 -454 to 1832°F
 -270 to 1000°C
Accuracy: Standard: 1.7°C or 0.5%
 Special: 1.0°C or 0.4%



Recommended Applications:
 Oxidizing or Inert.Limited Use in Vacuum or Reducing.Environments.

Temp	0	1	2	3	4	5	6	7	8	9
0	-1.0260	-0.9945	-0.9629	-0.9314	-0.8997	-0.8681	-0.8364	-0.8047	-0.7729	-0.7411
10	-0.7093	-0.6774	-0.6455	-0.6135	-0.5815	-0.5495	-0.5175	-0.4854	-0.4533	-0.4211
20	-0.3889	-0.3567	-0.3244	-0.2921	-0.2598	-0.2274	-0.1950	-0.1626	-0.1301	-0.0977
30	-0.0651	-0.0326	0.0000	0.0326	0.0652	0.0979	0.1306	0.1633	0.1961	0.2288
40	0.2616	0.2945	0.3273	0.3602	0.3931	0.4261	0.4590	0.4920	0.5251	0.5581
50	0.5912	0.6243	0.6574	0.6906	0.7238	0.7570	0.7903	0.8236	0.8569	0.8902
60	0.9236	0.9570	0.9904	1.0238	1.0573	1.0908	1.1244	1.1579	1.1915	1.2251
70	1.2588	1.2925	1.3262	1.3599	1.3937	1.4274	1.4613	1.4951	1.5290	1.5629
80	1.5968	1.6308	1.6648	1.6988	1.7328	1.7669	1.8010	1.8352	1.8693	1.9035
90	1.9377	1.9720	2.0062	2.0405	2.0749	2.1092	2.1436	2.1780	2.2125	2.2470
100	2.2815	2.3160	2.3505	2.3851	2.4197	2.4544	2.4891	2.5238	2.5585	2.5932
110	2.6280	2.6628	2.6977	2.7325	2.7674	2.8024	2.8373	2.8723	2.9073	2.9423
120	2.9774	3.0125	3.0476	3.0828	3.1179	3.1531	3.1884	3.2236	3.2589	3.2942
130	3.3296	3.3649	3.4003	3.4358	3.4712	3.5067	3.5422	3.5777	3.6133	3.6489
140	3.6845	3.7202	3.7558	3.7915	3.8273	3.8630	3.8988	3.9346	3.9704	4.0063
150	4.0422	4.0781	4.1141	4.1500	4.1860	4.2220	4.2581	4.2942	4.3303	4.3664
160	4.4026	4.4388	4.4750	4.5112	4.5475	4.5838	4.6201	4.6565	4.6928	4.7292
170	4.7657	4.8021	4.8386	4.8751	4.9116	4.9482	4.9848	5.0214	5.0580	5.0947
180	5.1314	5.1681	5.2048	5.2416	5.2784	5.3152	5.3521	5.3889	5.4258	5.4627
190	5.4997	5.5367	5.5737	5.6107	5.6477	5.6848	5.7219	5.7590	5.7962	5.8334
200	5.8706	5.9078	5.9450	5.9823	6.0196	6.0570	6.0943	6.1317	6.1691	6.2065
210	6.2440	6.2814	6.3189	6.3565	6.3940	6.4316	6.4692	6.5068	6.5445	6.5821
220	6.6198	6.6575	6.6953	6.7331	6.7708	6.8087	6.8465	6.8844	6.9223	6.9602
230	6.9981	7.0361	7.0741	7.1121	7.1501	7.1881	7.2262	7.2643	7.3025	7.3406
240	7.3788	7.4170	7.4552	7.4934	7.5317	7.5700	7.6083	7.6466	7.6850	7.7234
250	7.7618	7.8002	7.8386	7.8771	7.9156	7.9541	7.9927	8.0312	8.0698	8.1084
260	8.1470	8.1857	8.2243	8.2630	8.3018	8.3405	8.3793	8.4180	8.4568	8.4957
270	8.5345	8.5734	8.6123	8.6512	8.6901	8.7291	8.7681	8.8071	8.8461	8.8851
280	8.9242	8.9633	9.0024	9.0415	9.0806	9.1198	9.1590	9.1982	9.2374	9.2767
290	9.3160	9.3552	9.3946	9.4339	9.4733	9.5126	9.5520	9.5914	9.6309	9.6703
300	9.7098	9.7493	9.7888	9.8284	9.8679	9.9075	9.9471	9.9867	10.0263	10.0660
310	10.1057	10.1454	10.1851	10.2248	10.2646	10.3043	10.3441	10.3839	10.4238	10.4636
320	10.5035	10.5434	10.5833	10.6232	10.6632	10.7031	10.7431	10.7831	10.8231	10.8632
330	10.9032	10.9433	10.9834	11.0235	11.0637	11.1038	11.1440	11.1842	11.2244	11.2646
340	11.3049	11.3451	11.3854	11.4257	11.4660	11.5063	11.5467	11.5871	11.6274	11.6678
350	11.7083	11.7487	11.7892	11.8296	11.8701	11.9106	11.9512	11.9917	12.0323	12.0729
360	12.1135	12.1541	12.1947	12.2353	12.2760	12.3167	12.3574	12.3981	12.4388	12.4796
370	12.5203	12.5611	12.6019	12.6427	12.6836	12.7244	12.7653	12.8062	12.8471	12.8880
380	12.9289	12.9698	13.0108	13.0518	13.0928	13.1338	13.1748	13.2159	13.2569	13.2980
390	13.3391	13.3802	13.4213	13.4624	13.5036	13.5447	13.5859	13.6271	13.6683	13.7096
400	13.7508	13.7921	13.8333	13.8746	13.9159	13.9573	13.9986	14.0399	14.0813	14.1227
410	14.1641	14.2055	14.2469	14.2883	14.3298	14.3713	14.4127	14.4542	14.4957	14.5373
420	14.5788	14.6204	14.6619	14.7035	14.7451	14.7867	14.8283	14.8700	14.9116	14.9533
430	14.9950	15.0367	15.0784	15.1201	15.1618	15.2036	15.2454	15.2871	15.3289	15.3707
440	15.4125	15.4544	15.4962	15.5381	15.5800	15.6218	15.6637	15.7056	15.7476	15.7895
450	15.8315	15.8734	15.9154	15.9574	15.9994	16.0414	16.0834	16.1255	16.1675	16.2096
460	16.2517	16.2938	16.3359	16.3780	16.4201	16.4623	16.5044	16.5466	16.5888	16.6310
470	16.6732	16.7154	16.7576	16.7999	16.8421	16.8844	16.9266	16.9689	17.0112	17.0536

Temperature vs Millivolt Table Reference Junction 32°F



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Maximum Useful Temperature Range:
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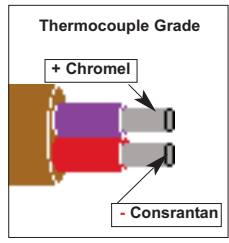
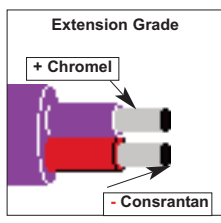
Recommended Applications:
 Oxidizing or Inert.Limited Use in Vacuum or Reducing.Environments.

Temp	0	1	2	3	4	5	6	7	8	9
480	17.0959	17.1382	17.1806	17.2229	17.2653	17.3077	17.3501	17.3925	17.4349	17.4773
490	17.5198	17.5622	17.6047	17.6472	17.6897	17.7322	17.7747	17.8172	17.8597	17.9023
500	17.9448	17.9874	18.0300	18.0726	18.1152	18.1578	18.2004	18.2431	18.2857	18.3284
510	18.3710	18.4137	18.4564	18.4991	18.5418	18.5845	18.6272	18.6700	18.7127	18.7555
520	18.7983	18.8411	18.8839	18.9267	18.9695	19.0123	19.0551	19.0980	19.1408	19.1837
530	19.2266	19.2695	19.3124	19.3553	19.3982	19.4411	19.4841	19.5270	19.5700	19.6129
540	19.6559	19.6989	19.7419	19.7849	19.8279	19.8710	19.9140	19.9570	20.0001	20.0432
550	20.0862	20.1293	20.1724	20.2155	20.2586	20.3017	20.3449	20.3880	20.4312	20.4743
560	20.5175	20.5607	20.6039	20.6471	20.6903	20.7335	20.7767	20.8199	20.8632	20.9064
570	20.9497	20.9930	21.0362	21.0795	21.1228	21.1661	21.2094	21.2528	21.2961	21.3394
580	21.3828	21.4261	21.4695	21.5129	21.5563	21.5996	21.6430	21.6865	21.7299	21.7733
590	21.8167	21.8602	21.9036	21.9471	21.9905	22.0340	22.0775	22.1210	22.1645	22.2080
600	22.2515	22.2950	22.3386	22.3821	22.4257	22.4692	22.5128	22.5564	22.5999	22.6435
610	22.6871	22.7307	22.7743	22.8180	22.8616	22.9052	22.9489	22.9925	23.0362	23.0798
620	23.1235	23.1672	23.2109	23.2546	23.2983	23.3420	23.3857	23.4294	23.4732	23.5169
630	23.5607	23.6044	23.6482	23.6920	23.7357	23.7795	23.8233	23.8671	23.9109	23.9547
640	23.9986	24.0424	24.0862	24.1301	24.1739	24.2178	24.2616	24.3055	24.3494	24.3933
650	24.4371	24.4810	24.5250	24.5689	24.6128	24.6567	24.7006	24.7446	24.7885	24.8325
660	24.8764	24.9204	24.9644	25.0083	25.0523	25.0963	25.1403	25.1843	25.2283	25.2723
670	25.3164	25.3604	25.4044	25.4485	25.4925	25.5366	25.5806	25.6247	25.6688	25.7129
680	25.7570	25.8010	25.8451	25.8892	25.9334	25.9775	26.0216	26.0657	26.1099	26.1540
690	26.1982	26.2423	26.2865	26.3306	26.3748	26.4190	26.4632	26.5073	26.5515	26.5957
700	26.6399	26.6842	26.7284	26.7726	26.8168	26.8611	26.9053	26.9495	26.9938	27.0380
710	27.0823	27.1266	27.1708	27.2151	27.2594	27.3037	27.3480	27.3923	27.4366	27.4809
720	27.5252	27.5695	27.6139	27.6582	27.7025	27.7469	27.7912	27.8356	27.8799	27.9243
730	27.9687	28.0130	28.0574	28.1018	28.1462	28.1906	28.2350	28.2794	28.3238	28.3682
740	28.4126	28.4570	28.5014	28.5459	28.5903	28.6347	28.6792	28.7236	28.7681	28.8126
750	28.8570	28.9015	28.9460	28.9904	29.0349	29.0794	29.1239	29.1684	29.2129	29.2574
760	29.3019	29.3464	29.3909	29.4355	29.4800	29.5245	29.5691	29.6136	29.6581	29.7027
770	29.7472	29.7918	29.8364	29.8809	29.9255	29.9701	30.0146	30.0592	30.1038	30.1484
780	30.1930	30.2376	30.2822	30.3268	30.3714	30.4160	30.4606	30.5053	30.5499	30.5945
790	30.6391	30.6838	30.7284	30.7731	30.8177	30.8624	30.9070	30.9517	30.9963	31.0410
800	31.0857	31.1303	31.1750	31.2197	31.2644	31.3091	31.3538	31.3985	31.4432	31.4879
810	31.5326	31.5773	31.6220	31.6667	31.7114	31.7561	31.8009	31.8456	31.8903	31.9350
820	31.9798	32.0245	32.0693	32.1140	32.1588	32.2035	32.2483	32.2930	32.3378	32.3825
830	32.4273	32.4721	32.5169	32.5616	32.6064	32.6512	32.6960	32.7408	32.7856	32.8303
840	32.8751	32.9199	32.9647	33.0095	33.0544	33.0992	33.1440	33.1888	33.2336	33.2784
850	33.3232	33.3681	33.4129	33.4577	33.5026	33.5474	33.5922	33.6371	33.6819	33.7268
860	33.7716	33.8165	33.8613	33.9062	33.9510	33.9959	34.0407	34.0856	34.1305	34.1753
870	34.2202	34.2651	34.3099	34.3548	34.3997	34.4446	34.4894	34.5343	34.5792	34.6241
880	34.6690	34.7139	34.7588	34.8037	34.8486	34.8935	34.9384	34.9833	35.0282	35.0731
890	35.1180	35.1629	35.2078	35.2527	35.2976	35.3425	35.3875	35.4324	35.4773	35.5222
900	35.5671	35.6121	35.6570	35.7019	35.7468	35.7918	35.8367	35.8816	35.9266	35.9715
910	36.0165	36.0614	36.1063	36.1513	36.1962	36.2412	36.2861	36.3310	36.3760	36.4209
920	36.4659	36.5108	36.5558	36.6007	36.6457	36.6906	36.7356	36.7806	36.8255	36.8705
930	36.9154	36.9604	37.0054	37.0503	37.0953	37.1402	37.1852	37.2302	37.2751	37.3201
940	37.3651	37.4100	37.4550	37.5000	37.5449	37.5899	37.6349	37.6799	37.7248	37.7698
950	37.8148	37.8597	37.9047	37.9497	37.9947	38.0396	38.0846	38.1296	38.1746	38.2195

Type E Thermocouple Chromel-Constantan

TEMPERATURE & PROCESS INSTRUMENTS - CHROMEL-CONSTANTAN

Temperature vs Millivolt Table Reference Junction 32°F

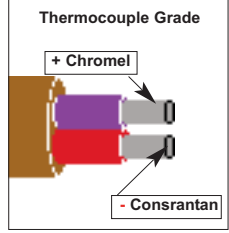
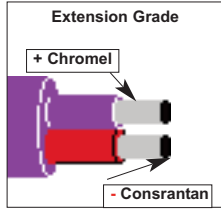


Temperature Range Maximum Useful Temperature Range: Thermocouple Grade: -328 to 1652°F -200 to 900°C Extension Grade: 32 to 392°F 0 to 200°C	Maximum Thermocouple Grade Temperature Range -454 to 1832°F -270 to 1000°C Accuracy: Standard: 1.7°C or 0.5% Special: 1.0°C or 0.4%
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Recommended Applications:
 Oxidizing or Inert.Limited Use in Vacuum or Reducing.Environments.

Temp	0	1	2	3	4	5	6	7	8	9
960	38.2645	38.3095	38.3545	38.3994	38.4444	38.4894	38.5344	38.5794	38.6243	38.6693
970	38.7143	38.7593	38.8042	38.8492	38.8942	38.9392	38.9842	39.0291	39.0741	39.1191
980	39.1641	39.2091	39.2540	39.2990	39.3440	39.3890	39.4339	39.4789	39.5239	39.5689
990	39.6139	39.6588	39.7038	39.7488	39.7938	39.8387	39.8837	39.9287	39.9737	40.0186
1000	40.0636	40.1086	40.1535	40.1985	40.2435	40.2885	40.3334	40.3784	40.4234	40.4683
1010	40.5133	40.5583	40.6032	40.6482	40.6932	40.7381	40.7831	40.8280	40.8730	40.9180
1020	40.9629	41.0079	41.0528	41.0978	41.1427	41.1877	41.2327	41.2776	41.3226	41.3675
1030	41.4125	41.4574	41.5024	41.5473	41.5923	41.6372	41.6821	41.7271	41.7720	41.8170
1040	41.8619	41.9068	41.9518	41.9967	42.0416	42.0866	42.1315	42.1764	42.2214	42.2663
1050	42.3112	42.3562	42.4011	42.4460	42.4909	42.5358	42.5808	42.6257	42.6706	42.7155
1060	42.7604	42.8053	42.8502	42.8951	42.9400	42.9849	43.0298	43.0747	43.1196	43.1645
1070	43.2094	43.2543	43.2992	43.3441	43.3890	43.4339	43.4788	43.5237	43.5685	43.6134
1080	43.6583	43.7032	43.7481	43.7929	43.8378	43.8827	43.9275	43.9724	44.0173	44.0621
1090	44.1070	44.1518	44.1967	44.2415	44.2864	44.3312	44.3761	44.4209	44.4658	44.5106
1100	44.5555	44.6003	44.6451	44.6900	44.7348	44.7796	44.8245	44.8693	44.9141	44.9589
1110	45.0037	45.0485	45.0934	45.1382	45.1830	45.2278	45.2726	45.3174	45.3622	45.4070
1120	45.4518	45.4966	45.5414	45.5861	45.6309	45.6757	45.7205	45.7653	45.8100	45.8548
1130	45.8996	45.9443	45.9891	46.0339	46.0786	46.1234	46.1681	46.2129	46.2576	46.3024
1140	46.3471	46.3919	46.4366	46.4813	46.5261	46.5708	46.6155	46.6603	46.7050	46.7497
1150	46.7944	46.8391	46.8838	46.9285	46.9733	47.0180	47.0627	47.1074	47.1520	47.1967
1160	47.2414	47.2861	47.3308	47.3755	47.4202	47.4648	47.5095	47.5542	47.5988	47.6435
1170	47.6882	47.7328	47.7775	47.8221	47.8668	47.9114	47.9561	48.0007	48.0453	48.0900
1180	48.1346	48.1792	48.2238	48.2685	48.3131	48.3577	48.4023	48.4469	48.4915	48.5361
1190	48.5807	48.6253	48.6699	48.7145	48.7591	48.8037	48.8483	48.8928	48.9374	48.9820
1200	49.0265	49.0711	49.1157	49.1602	49.2048	49.2493	49.2939	49.3384	49.3830	49.4275
1210	49.4720	49.5166	49.5611	49.6056	49.6502	49.6947	49.7392	49.7837	49.8282	49.8727
1220	49.9172	49.9617	50.0062	50.0507	50.0952	50.1397	50.1842	50.2287	50.2731	50.3176
1230	50.3621	50.4065	50.4510	50.4955	50.5399	50.5844	50.6288	50.6733	50.7177	50.7621
1240	50.8066	50.8510	50.8954	50.9399	50.9843	51.0287	51.0731	51.1175	51.1619	51.2063
1250	51.2507	51.2951	51.3395	51.3839	51.4283	51.4727	51.5171	51.5614	51.6058	51.6502
1260	51.6946	51.7389	51.7833	51.8276	51.8720	51.9163	51.9607	52.0050	52.0494	52.0937
1270	52.1380	52.1823	52.2267	52.2710	52.3153	52.3596	52.4039	52.4482	52.4925	52.5368
1280	52.5811	52.6254	52.6697	52.7140	52.7583	52.8026	52.8468	52.8911	52.9354	52.9796
1290	53.0239	53.0681	53.1124	53.1566	53.2009	53.2451	53.2894	53.3336	53.3778	53.4221
1300	53.4663	53.5105	53.5547	53.5989	53.6431	53.6873	53.7315	53.7757	53.8199	53.8641
1310	53.9083	53.9525	53.9967	54.0408	54.0850	54.1292	54.1733	54.2175	54.2617	54.3058
1320	54.3500	54.3941	54.4383	54.4824	54.5265	54.5707	54.6148	54.6589	54.7030	54.7472
1330	54.7913	54.8354	54.8795	54.9236	54.9677	55.0118	55.0559	55.1000	55.1440	55.1881
1340	55.2322	55.2763	55.3203	55.3644	55.4085	55.4525	55.4966	55.5406	55.5847	55.6287
1350	55.6728	55.7168	55.7608	55.8049	55.8489	55.8929	55.9369	55.9809	56.0249	56.0689
1360	56.1130	56.1569	56.2009	56.2449	56.2889	56.3329	56.3769	56.4209	56.4648	56.5088
1370	56.5528	56.5967	56.6407	56.6846	56.7286	56.7725	56.8165	56.8604	56.9044	56.9483
1380	56.9922	57.0361	57.0801	57.1240	57.1679	57.2118	57.2557	57.2996	57.3435	57.3874
1390	57.4313	57.4752	57.5191	57.5629	57.6068	57.6507	57.6946	57.7384	57.7823	57.8261
1400	57.8700	57.9138	57.9577	58.0015	58.0454	58.0892	58.1330	58.1769	58.2207	58.2645
1410	58.3083	58.3521	58.3959	58.4397	58.4835	58.5273	58.5711	58.6149	58.6587	58.7025
1420	58.7463	58.7900	58.8338	58.8776	58.9213	58.9651	59.0088	59.0526	59.0963	59.1401

Temperature vs Millivolt Table Reference Junction 32°F



Temperature Range
 Maximum Useful Temperature Range:
 Thermocouple Grade: -328 to 1652°F
 -200 to 900°C
 Extension Grade: 32 to 392°F
 0 to 200°C

Maximum Thermocouple Grade
 Temperature Range
 -454 to 1832°F
 -270 to 1000°C
 Accuracy: Standard: 1.7°C or 0.5%
 Special: 1.0°C or 0.4%

Recommended Applications:
 Oxidizing or Inert. Limited Use in Vacuum or Reducing Environments.

Temp	0	1	2	3	4	5	6	7	8	9
1430	59.1838	59.2276	59.2713	59.3150	59.3587	59.4025	59.4462	59.4899	59.5336	59.5773
1440	59.6210	59.6647	59.7084	59.7521	59.7958	59.8395	59.8831	59.9268	59.9705	60.0141
1450	60.0578	60.1015	60.1451	60.1888	60.2324	60.2761	60.3197	60.3633	60.4070	60.4506
1460	60.4942	60.5378	60.5814	60.6251	60.6687	60.7123	60.7559	60.7995	60.8430	60.8866
1470	60.9302	60.9738	61.0174	61.0609	61.1045	61.1481	61.1916	61.2352	61.2787	61.3223
1480	61.3658	61.4094	61.4529	61.4964	61.5400	61.5835	61.6270	61.6705	61.7140	61.7575
1490	61.8010	61.8445	61.8880	61.9315	61.9750	62.0185	62.0620	62.1054	62.1489	62.1924
1500	62.2358	62.2793	62.3227	62.3662	62.4096	62.4531	62.4965	62.5399	62.5834	62.6268
1510	62.6702	62.7136	62.7570	62.8004	62.8438	62.8872	62.9306	62.9740	63.0174	63.0608
1520	63.1041	63.1475	63.1909	63.2342	63.2776	63.3209	63.3643	63.4076	63.4510	63.4943
1530	63.5376	63.5810	63.6243	63.6676	63.7109	63.7542	63.7975	63.8408	63.8841	63.9274
1540	63.9707	64.0140	64.0572	64.1005	64.1438	64.1870	64.2303	64.2736	64.3168	64.3601
1550	64.4033	64.4465	64.4898	64.5330	64.5762	64.6194	64.6626	64.7058	64.7490	64.7922
1560	64.8354	64.8786	64.9218	64.9650	65.0081	65.0513	65.0945	65.1376	65.1808	65.2239
1570	65.2671	65.3102	65.3533	65.3965	65.4396	65.4827	65.5258	65.5689	65.6120	65.6551
1580	65.6982	65.7413	65.7844	65.8275	65.8705	65.9136	65.9567	65.9997	66.0428	66.0858
1590	66.1289	66.1719	66.2149	66.2579	66.3010	66.3440	66.3870	66.4300	66.4730	66.5160
1600	66.5590	66.6020	66.6449	66.6879	66.7309	66.7738	66.8168	66.8597	66.9027	66.9456
1610	66.9886	67.0315	67.0744	67.1173	67.1602	67.2031	67.2460	67.2889	67.3318	67.3747
1620	67.4176	67.4605	67.5033	67.5462	67.5890	67.6319	67.6747	67.7176	67.7604	67.8032
1630	67.8460	67.8889	67.9317	67.9745	68.0173	68.0601	68.1028	68.1456	68.1884	68.2312
1640	68.2739	68.3167	68.3594	68.4022	68.4449	68.4876	68.5304	68.5731	68.6158	68.6585
1650	68.7012	68.7439	68.7866	68.8293	68.8720	68.9146	68.9573	68.9999	69.0426	69.0852
1660	69.1279	69.1705	69.2131	69.2558	69.2984	69.3410	69.3836	69.4262	69.4688	69.5114
1670	69.5539	69.5965	69.6391	69.6816	69.7242	69.7667	69.8093	69.8518	69.8943	69.9369
1680	69.9794	70.0219	70.0644	70.1069	70.1494	70.1918	70.2343	70.2768	70.3192	70.3617
1690	70.4042	70.4466	70.4890	70.5315	70.5739	70.6163	70.6587	70.7011	70.7435	70.7859
1700	70.8283	70.8707	70.9130	70.9554	70.9978	71.0401	71.0825	71.1248	71.1671	71.2095
1710	71.2518	71.2941	71.3364	71.3787	71.4210	71.4633	71.5056	71.5479	71.5901	71.6324
1720	71.6746	71.7169	71.7591	71.8014	71.8436	71.8858	71.9280	71.9702	72.0125	72.0547
1730	72.0968	72.1390	72.1812	72.2234	72.2655	72.3077	72.3499	72.3920	72.4342	72.4763
1740	72.5184	72.5605	72.6027	72.6448	72.6869	72.7290	72.7711	72.8132	72.8552	72.8973
1750	72.9394	72.9814	73.0235	73.0655	73.1076	73.1496	73.1917	73.2337	73.2757	73.3177
1760	73.3597	73.4017	73.4437	73.4857	73.5277	73.5697	73.6117	73.6536	73.6956	73.7376
1770	73.7795	73.8215	73.8634	73.9054	73.9473	73.9892	74.0312	74.0731	74.1150	74.1569
1780	74.1988	74.2407	74.2826	74.3245	74.3664	74.4083	74.4501	74.4920	74.5339	74.5757
1790	74.6176	74.6594	74.7013	74.7431	74.7850	74.8268	74.8687	74.9105	74.9523	74.9941
1800	75.0360	75.0778	75.1196	75.1614	75.2032	75.2450	75.2868	75.3286	75.3704	75.4122
1810	75.4540	75.4958	75.5375	75.5793	75.6211	75.6629	75.7047	75.7464	75.7882	75.8300
1820	75.8717	75.9135	75.9553	75.9970	76.0388	76.0805	76.1223	76.1641	76.2058	76.2476
1830	76.2893	76.3311	76.3728							