

Table of B-type thermocouple (reference point 0 °C)

Thermal voltage in mV

°C	0	1	2	3	4	5	6	7	8	9	10
0	0,000	0,000	0,000	-0,001	-0,001	-0,001	-0,001	-0,001	-0,002	-0,002	-0,002
10	-0,002	-0,002	-0,002	-0,002	-0,002	-0,002	-0,002	-0,002	-0,003	-0,003	-0,003
20	-0,003	-0,003	-0,003	-0,003	-0,003	-0,002	-0,002	-0,002	-0,002	-0,002	-0,002
30	-0,002	-0,002	-0,002	-0,002	-0,002	-0,001	-0,001	-0,001	-0,001	-0,001	0,000
40	0,000	0,000	0,000	0,000	0,000	0,001	0,001	0,001	0,002	0,002	0,002
50	0,002	0,003	0,003	0,003	0,004	0,004	0,004	0,005	0,005	0,006	0,006
60	0,006	0,007	0,007	0,008	0,008	0,009	0,009	0,010	0,010	0,011	0,011
70	0,011	0,012	0,012	0,013	0,014	0,014	0,015	0,015	0,016	0,017	0,017
80	0,017	0,018	0,019	0,020	0,020	0,021	0,022	0,022	0,023	0,024	0,025
90	0,025	0,026	0,026	0,027	0,028	0,029	0,030	0,031	0,031	0,032	0,033
100	0,033	0,034	0,035	0,036	0,037	0,038	0,039	0,040	0,041	0,042	0,043
110	0,043	0,044	0,045	0,046	0,047	0,048	0,049	0,050	0,051	0,052	0,053
120	0,053	0,055	0,056	0,057	0,058	0,059	0,060	0,062	0,063	0,064	0,065
130	0,065	0,066	0,068	0,069	0,070	0,072	0,073	0,074	0,075	0,077	0,078
140	0,078	0,079	0,081	0,082	0,084	0,085	0,086	0,088	0,089	0,091	0,092
150	0,092	0,094	0,095	0,096	0,098	0,099	0,101	0,102	0,104	0,106	0,107
160	0,107	0,109	0,110	0,112	0,113	0,115	0,117	0,118	0,120	0,122	0,123
170	0,123	0,125	0,127	0,128	0,130	0,132	0,134	0,135	0,137	0,139	0,141
180	0,141	0,142	0,144	0,146	0,148	0,150	0,151	0,153	0,155	0,157	0,159
190	0,159	0,161	0,163	0,165	0,166	0,168	0,170	0,172	0,174	0,176	0,178
200	0,178	0,180	0,182	0,184	0,186	0,188	0,190	0,192	0,195	0,197	0,199
210	0,199	0,201	0,203	0,205	0,207	0,209	0,212	0,214	0,216	0,218	0,220
220	0,220	0,222	0,225	0,227	0,229	0,231	0,234	0,236	0,238	0,241	0,243
230	0,243	0,245	0,248	0,250	0,252	0,255	0,257	0,259	0,262	0,264	0,267
240	0,267	0,269	0,271	0,274	0,276	0,279	0,281	0,284	0,286	0,289	0,291
250	0,291	0,294	0,296	0,299	0,301	0,304	0,307	0,309	0,312	0,314	0,317
260	0,317	0,320	0,322	0,325	0,328	0,330	0,333	0,336	0,338	0,341	0,344
270	0,344	0,347	0,349	0,352	0,355	0,358	0,360	0,363	0,366	0,369	0,372
280	0,372	0,375	0,377	0,380	0,383	0,386	0,389	0,392	0,395	0,398	0,401
290	0,401	0,404	0,407	0,410	0,413	0,416	0,419	0,422	0,425	0,428	0,431
300	0,431	0,434	0,437	0,440	0,443	0,446	0,449	0,452	0,455	0,458	0,462
310	0,462	0,465	0,468	0,471	0,474	0,478	0,481	0,484	0,487	0,490	0,494
320	0,494	0,497	0,500	0,503	0,507	0,510	0,513	0,517	0,520	0,523	0,527
330	0,527	0,530	0,533	0,537	0,540	0,544	0,547	0,550	0,554	0,557	0,561
340	0,561	0,564	0,568	0,571	0,575	0,578	0,582	0,585	0,589	0,592	0,596
350	0,596	0,599	0,603	0,607	0,610	0,614	0,617	0,621	0,625	0,628	0,632
360	0,632	0,636	0,639	0,643	0,647	0,650	0,654	0,658	0,662	0,665	0,669
370	0,669	0,673	0,677	0,680	0,684	0,688	0,692	0,696	0,700	0,703	0,707
°C	0	1	2	3	4	5	6	7	8	9	10

°C	0	1	2	3	4	5	6	7	8	9	10
380	0,707	0,711	0,715	0,719	0,723	0,727	0,731	0,735	0,738	0,742	0,746
390	0,746	0,750	0,754	0,758	0,762	0,766	0,770	0,774	0,778	0,782	0,787
400	0,787	0,791	0,795	0,799	0,803	0,807	0,811	0,815	0,819	0,824	0,828
410	0,828	0,832	0,836	0,840	0,844	0,849	0,853	0,857	0,861	0,866	0,870
420	0,870	0,874	0,878	0,883	0,887	0,891	0,896	0,900	0,904	0,909	0,913
430	0,913	0,917	0,922	0,926	0,930	0,935	0,939	0,944	0,948	0,953	0,957
440	0,957	0,961	0,966	0,970	0,975	0,979	0,984	0,988	0,993	0,997	1,002
450	1,002	1,007	1,011	1,016	1,020	1,025	1,030	1,034	1,039	1,043	1,048
460	1,048	1,053	1,057	1,062	1,067	1,071	1,076	1,081	1,086	1,090	1,095
470	1,095	1,100	1,105	1,109	1,114	1,119	1,124	1,129	1,133	1,138	1,143
480	1,143	1,148	1,153	1,158	1,163	1,167	1,172	1,177	1,182	1,187	1,192
490	1,192	1,197	1,202	1,207	1,212	1,217	1,222	1,227	1,232	1,237	1,242
500	1,242	1,247	1,252	1,257	1,262	1,267	1,272	1,277	1,282	1,288	1,293
510	1,293	1,298	1,303	1,308	1,313	1,318	1,324	1,329	1,334	1,339	1,344
520	1,344	1,350	1,355	1,360	1,365	1,371	1,376	1,381	1,387	1,392	1,397
530	1,397	1,402	1,408	1,413	1,418	1,424	1,429	1,435	1,440	1,445	1,451
540	1,451	1,456	1,462	1,467	1,472	1,478	1,483	1,489	1,494	1,500	1,505
550	1,505	1,511	1,516	1,522	1,527	1,533	1,539	1,544	1,550	1,555	1,561
560	1,561	1,566	1,572	1,578	1,583	1,589	1,595	1,600	1,606	1,612	1,617
570	1,617	1,623	1,629	1,634	1,640	1,646	1,652	1,657	1,663	1,669	1,675
580	1,675	1,680	1,686	1,692	1,698	1,704	1,709	1,715	1,721	1,727	1,733
590	1,733	1,739	1,745	1,750	1,756	1,762	1,768	1,774	1,780	1,786	1,792
600	1,792	1,798	1,804	1,810	1,816	1,822	1,828	1,834	1,840	1,846	1,852
610	1,852	1,858	1,864	1,870	1,876	1,882	1,888	1,894	1,901	1,907	1,913
620	1,913	1,919	1,925	1,931	1,937	1,944	1,950	1,956	1,962	1,968	1,975
630	1,975	1,981	1,987	1,993	1,999	2,006	2,012	2,018	2,025	2,031	2,037
640	2,037	2,043	2,050	2,056	2,062	2,069	2,075	2,082	2,088	2,094	2,101
650	2,101	2,107	2,113	2,120	2,126	2,133	2,139	2,146	2,152	2,158	2,165
660	2,165	2,171	2,178	2,184	2,191	2,197	2,204	2,210	2,217	2,224	2,230
670	2,230	2,237	2,243	2,250	2,256	2,263	2,270	2,276	2,283	2,289	2,296
680	2,296	2,303	2,309	2,316	2,323	2,329	2,336	2,343	2,350	2,356	2,363
690	2,363	2,370	2,376	2,383	2,390	2,397	2,403	2,410	2,417	2,424	2,431
700	2,431	2,437	2,444	2,451	2,458	2,465	2,472	2,479	2,485	2,492	2,499
710	2,499	2,506	2,513	2,520	2,527	2,534	2,541	2,548	2,555	2,562	2,569
720	2,569	2,576	2,583	2,590	2,597	2,604	2,611	2,618	2,625	2,632	2,639
730	2,639	2,646	2,653	2,660	2,667	2,674	2,681	2,688	2,696	2,703	2,710
740	2,710	2,717	2,724	2,731	2,738	2,746	2,753	2,760	2,767	2,775	2,782
750	2,782	2,789	2,796	2,803	2,811	2,818	2,825	2,833	2,840	2,847	2,854
760	2,854	2,862	2,869	2,876	2,884	2,891	2,898	2,906	2,913	2,921	2,928
°C	0	1	2	3	4	5	6	7	8	9	10

°C	0	1	2	3	4	5	6	7	8	9	10
770	2,928	2,935	2,943	2,950	2,958	2,965	2,973	2,980	2,987	2,995	3,002
780	3,002	3,010	3,017	3,025	3,032	3,040	3,047	3,055	3,062	3,070	3,078
790	3,078	3,085	3,093	3,100	3,108	3,116	3,123	3,131	3,138	3,146	3,154
800	3,154	3,161	3,169	3,177	3,184	3,192	3,200	3,207	3,215	3,223	3,230
810	3,230	3,238	3,246	3,254	3,261	3,269	3,277	3,285	3,292	3,300	3,308
820	3,308	3,316	3,324	3,331	3,339	3,347	3,355	3,363	3,371	3,379	3,386
830	3,386	3,394	3,402	3,410	3,418	3,426	3,434	3,442	3,450	3,458	3,466
840	3,466	3,474	3,482	3,490	3,498	3,506	3,514	3,522	3,530	3,538	3,546
850	3,546	3,554	3,562	3,570	3,578	3,586	3,594	3,602	3,610	3,618	3,626
860	3,626	3,634	3,643	3,651	3,659	3,667	3,675	3,683	3,692	3,700	3,708
870	3,708	3,716	3,724	3,732	3,741	3,749	3,757	3,765	3,774	3,782	3,790
880	3,790	3,798	3,807	3,815	3,823	3,832	3,840	3,848	3,857	3,865	3,873
890	3,873	3,882	3,890	3,898	3,907	3,915	3,923	3,932	3,940	3,949	3,957
900	3,957	3,965	3,974	3,982	3,991	3,999	4,008	4,016	4,024	4,033	4,041
910	4,041	4,050	4,058	4,067	4,075	4,084	4,093	4,101	4,110	4,118	4,127
920	4,127	4,135	4,144	4,152	4,161	4,170	4,178	4,187	4,195	4,204	4,213
930	4,213	4,221	4,230	4,239	4,247	4,256	4,265	4,273	4,282	4,291	4,299
940	4,299	4,308	4,317	4,326	4,334	4,343	4,352	4,360	4,369	4,378	4,387
950	4,387	4,396	4,404	4,413	4,422	4,431	4,440	4,448	4,457	4,466	4,475
960	4,475	4,484	4,493	4,501	4,510	4,519	4,528	4,537	4,546	4,555	4,564
970	4,564	4,573	4,582	4,591	4,599	4,608	4,617	4,626	4,635	4,644	4,653
980	4,653	4,662	4,671	4,680	4,689	4,698	4,707	4,716	4,725	4,734	4,743
990	4,743	4,753	4,762	4,771	4,780	4,789	4,798	4,807	4,816	4,825	4,834
1000	4,834	4,843	4,853	4,862	4,871	4,880	4,889	4,898	4,908	4,917	4,926
1010	4,926	4,935	4,944	4,954	4,963	4,972	4,981	4,990	5,000	5,009	5,018
1020	5,018	5,027	5,037	5,046	5,055	5,065	5,074	5,083	5,092	5,102	5,111
1030	5,111	5,120	5,130	5,139	5,148	5,158	5,167	5,176	5,186	5,195	5,205
1040	5,205	5,214	5,223	5,233	5,242	5,252	5,261	5,270	5,280	5,289	5,299
1050	5,299	5,308	5,318	5,327	5,337	5,346	5,356	5,365	5,375	5,384	5,394
1060	5,394	5,403	5,413	5,422	5,432	5,441	5,451	5,460	5,470	5,480	5,489
1070	5,489	5,499	5,508	5,518	5,528	5,537	5,547	5,556	5,566	5,576	5,585
1080	5,585	5,595	5,605	5,614	5,624	5,634	5,643	5,653	5,663	5,672	5,682
1090	5,682	5,692	5,702	5,711	5,721	5,731	5,740	5,750	5,760	5,770	5,780
1100	5,780	5,789	5,799	5,809	5,819	5,828	5,838	5,848	5,858	5,868	5,878
1110	5,878	5,887	5,897	5,907	5,917	5,927	5,937	5,947	5,956	5,966	5,976
1120	5,976	5,986	5,996	6,006	6,016	6,026	6,036	6,046	6,055	6,065	6,075
1130	6,075	6,085	6,095	6,105	6,115	6,125	6,135	6,145	6,155	6,165	6,175
1140	6,175	6,185	6,195	6,205	6,215	6,225	6,235	6,245	6,256	6,266	6,276
1150	6,276	6,286	6,296	6,306	6,316	6,326	6,336	6,346	6,356	6,367	6,377
°C	0	1	2	3	4	5	6	7	8	9	10

°C	0	1	2	3	4	5	6	7	8	9	10
1160	6,377	6,387	6,397	6,407	6,417	6,427	6,438	6,448	6,458	6,468	6,478
1170	6,478	6,488	6,499	6,509	6,519	6,529	6,539	6,550	6,560	6,570	6,580
1180	6,580	6,591	6,601	6,611	6,621	6,632	6,642	6,652	6,663	6,673	6,683
1190	6,683	6,693	6,704	6,714	6,724	6,735	6,745	6,755	6,766	6,776	6,786
1200	6,786	6,797	6,807	6,818	6,828	6,838	6,849	6,859	6,869	6,880	6,890
1210	6,890	6,901	6,911	6,922	6,932	6,942	6,953	6,963	6,974	6,984	6,995
1220	6,995	7,005	7,016	7,026	7,037	7,047	7,058	7,068	7,079	7,089	7,100
1230	7,100	7,110	7,121	7,131	7,142	7,152	7,163	7,173	7,184	7,194	7,205
1240	7,205	7,216	7,226	7,237	7,247	7,258	7,269	7,279	7,290	7,300	7,311
1250	7,311	7,322	7,332	7,343	7,353	7,364	7,375	7,385	7,396	7,407	7,417
1260	7,417	7,428	7,439	7,449	7,460	7,471	7,482	7,492	7,503	7,514	7,524
1270	7,524	7,535	7,546	7,557	7,567	7,578	7,589	7,600	7,610	7,621	7,632
1280	7,632	7,643	7,653	7,664	7,675	7,686	7,697	7,707	7,718	7,729	7,740
1290	7,740	7,751	7,761	7,772	7,783	7,794	7,805	7,816	7,827	7,837	7,848
1300	7,848	7,859	7,870	7,881	7,892	7,903	7,914	7,924	7,935	7,946	7,957
1310	7,957	7,968	7,979	7,990	8,001	8,012	8,023	8,034	8,045	8,056	8,066
1320	8,066	8,077	8,088	8,099	8,110	8,121	8,132	8,143	8,154	8,165	8,176
1330	8,176	8,187	8,198	8,209	8,220	8,231	8,242	8,253	8,264	8,275	8,286
1340	8,286	8,298	8,309	8,320	8,331	8,342	8,353	8,364	8,375	8,386	8,397
1350	8,397	8,408	8,419	8,430	8,441	8,453	8,464	8,475	8,486	8,497	8,508
1360	8,508	8,519	8,530	8,542	8,553	8,564	8,575	8,586	8,597	8,608	8,620
1370	8,620	8,631	8,642	8,653	8,664	8,675	8,687	8,698	8,709	8,720	8,731
1380	8,731	8,743	8,754	8,765	8,776	8,787	8,799	8,810	8,821	8,832	8,844
1390	8,844	8,855	8,866	8,877	8,889	8,900	8,911	8,922	8,934	8,945	8,956
1400	8,956	8,967	8,979	8,990	9,001	9,013	9,024	9,035	9,047	9,058	9,069
1410	9,069	9,080	9,092	9,103	9,114	9,126	9,137	9,148	9,160	9,171	9,182
1420	9,182	9,194	9,205	9,216	9,228	9,239	9,251	9,262	9,273	9,285	9,296
1430	9,296	9,307	9,319	9,330	9,342	9,353	9,364	9,376	9,387	9,398	9,410
1440	9,410	9,421	9,433	9,444	9,456	9,467	9,478	9,490	9,501	9,513	9,524
1450	9,524	9,536	9,547	9,558	9,570	9,581	9,593	9,604	9,616	9,627	9,639
1460	9,639	9,650	9,662	9,673	9,684	9,696	9,707	9,719	9,730	9,742	9,753
1470	9,753	9,765	9,776	9,788	9,799	9,811	9,822	9,834	9,845	9,857	9,868
1480	9,868	9,880	9,891	9,903	9,914	9,926	9,937	9,949	9,961	9,972	9,984
1490	9,984	9,995	10,007	10,018	10,030	10,041	10,053	10,064	10,076	10,088	10,099
1500	10,099	10,111	10,122	10,134	10,145	10,157	10,168	10,180	10,192	10,203	10,215
1510	10,215	10,226	10,238	10,249	10,261	10,273	10,284	10,296	10,307	10,319	10,331
1520	10,331	10,342	10,354	10,365	10,377	10,389	10,400	10,412	10,423	10,435	10,447
1530	10,447	10,458	10,470	10,482	10,493	10,505	10,516	10,528	10,540	10,551	10,563
°C	0	1	2	3	4	5	6	7	8	9	10

°C	0	1	2	3	4	5	6	7	8	9	10
1540	10,563	10,575	10,586	10,598	10,609	10,621	10,633	10,644	10,656	10,668	10,679
1550	10,679	10,691	10,703	10,714	10,726	10,738	10,749	10,761	10,773	10,784	10,796
1560	10,796	10,808	10,819	10,831	10,843	10,854	10,866	10,877	10,889	10,901	10,913
1570	10,913	10,924	10,936	10,948	10,959	10,971	10,983	10,994	11,006	11,018	11,029
1580	11,029	11,041	11,053	11,064	11,076	11,088	11,099	11,111	11,123	11,134	11,146
1590	11,146	11,158	11,169	11,181	11,193	11,205	11,216	11,228	11,240	11,251	11,263
1600	11,263	11,275	11,286	11,298	11,310	11,321	11,333	11,345	11,357	11,368	11,380
1610	11,380	11,392	11,403	11,415	11,427	11,438	11,450	11,462	11,474	11,485	11,497
1620	11,497	11,509	11,520	11,532	11,544	11,555	11,567	11,579	11,591	11,602	11,614
1630	11,614	11,626	11,637	11,649	11,661	11,673	11,684	11,696	11,708	11,719	11,731
1640	11,731	11,743	11,754	11,766	11,778	11,790	11,801	11,813	11,825	11,836	11,848
1650	11,848	11,860	11,871	11,883	11,895	11,907	11,918	11,930	11,942	11,953	11,965
1660	11,965	11,977	11,988	12,000	12,012	12,024	12,035	12,047	12,059	12,070	12,082
1670	12,082	12,094	12,105	12,117	12,129	12,141	12,152	12,164	12,176	12,187	12,199
1680	12,199	12,211	12,222	12,234	12,246	12,257	12,269	12,281	12,292	12,304	12,316
1690	12,316	12,327	12,339	12,351	12,363	12,374	12,386	12,398	12,409	12,421	12,433
1700	12,433	12,444	12,456	12,468	12,479	12,491	12,503	12,514	12,526	12,538	12,549
1710	12,549	12,561	12,572	12,584	12,596	12,607	12,619	12,631	12,642	12,654	12,666
1720	12,666	12,677	12,689	12,701	12,712	12,724	12,736	12,747	12,759	12,770	12,782
1730	12,782	12,794	12,805	12,817	12,829	12,840	12,852	12,863	12,875	12,887	12,898
1740	12,898	12,910	12,921	12,933	12,945	12,956	12,968	12,980	12,991	13,003	13,014
1750	13,014	13,026	13,037	13,049	13,061	13,072	13,084	13,095	13,107	13,119	13,130
1760	13,130	13,142	13,153	13,165	13,176	13,188	13,200	13,211	13,223	13,234	13,246
1770	13,246	13,257	13,269	13,280	13,292	13,304	13,315	13,327	13,338	13,350	13,361
1780	13,361	13,373	13,384	13,396	13,407	13,419	13,430	13,442	13,453	13,465	13,476
1790	13,476	13,488	13,499	13,511	13,522	13,534	13,545	13,557	13,568	13,580	13,591
1800	13,591	13,603	13,614	13,626	13,637	13,649	13,660	13,672	13,683	13,694	13,706
1810	13,706	13,717	13,729	13,740	13,752	13,763	13,775	13,786	13,797	13,809	13,820
1820	13,820										
°C	0	1	2	3	4	5	6	7	8	9	10