

## Metric Conversions

Table 10: Temperature Conversion Chart and Formula

Table 11: Distance and Weight Conversion Formulas

**Table 10: Temperature Conversion Chart**

°C	↔	°F	Temp. Conversion Formulas	
210		410	$^{\circ}\text{C} = \frac{5}{9} (^{\circ}\text{F} - 32)$ $^{\circ}\text{F} = \frac{9}{5} ^{\circ}\text{C} + 32$	
205		401		
200		392		
195		383		
190		374		
185		365		
180		356		
175		347		
170		338		
165		329		
160		320		
155		311		
150		302		
145		293		
140		284		
135		275		
130		266		
125		257		
120		248		
115		239		
110		230		
105		221		
100		212		
95		203		
90		194		
85		185		
80		176		
75		167		
70		158		
65		149		
60		140		
55		131		
50		122		
45		113		
40		104		
35		95		
30		86		
25		77		
20		68		
15		59		
10		50		
5		41		
0		32		
-5		23		
-10		14		
-15		5		
-20		-4		
-25		-13		
-30		-22		
-35		-31		
-40		-40		

**Table 11: Distance and Weight Conversion Formulas**

To Convert:	Multiply by:
Inches to millimeters	25.4
Millimeters to inches	.03937
Meters to feet	3.2808
Feet to meters	.3048
Kilometers to feet	3280.8
Feet to kilometers	.0003048
Kilograms to pounds	2.205
Pounds to kilograms	.4536
Pounds/1000 feet to pounds/1000 meters	3.2808
Pounds/1000 feet to kilograms/1000 meters	1.4882
Kilograms/1000 meters to pounds/1000 feet	.6719

**Metric Conversions**Table 12: Conductor Size Equivalents (mm<sup>2</sup>/inch<sup>2</sup>/circular mils /AWG)

Sq. mm	Sq. in.	Cir. mils.	AWG	Sq. mm	Sq. in.	Cir. mils.	AWG	Sq. mm	Sq. in.	Cir. mils.	AWG
1000	1.550	1974000		55	.0853	108570		5.00	.00775	9870	
975	1.511	1924700		—	—	105600	1/0	4.75	.00736	9377	
950	1.472	1875300		50	.0775	98700		4.50	.00698	8883	
925	1.434	1826000		45	.0698	88830		4.25	.00659	8390	
900	1.395	1776600		—	—	83690	1	—	—	8230	11
875	1.356	1727300		40	.0620	78960		4.00	.00620	7896	
850	1.317	1677900		35	.0542	69090		3.75	.00581	7403	
825	1.279	1628600		—	—	66360	2	3.50	.00542	6909	
800	1.240	1579200		30	.0465	59220		—	—	6530	12
775	1.201	1529900		—	—	52620	3	3.25	.00504	6416	
750	1.163	1480500		25	.0388	49350		3.00	.00465	5922	
725	1.124	1431200		—	—	41740	4	2.75	.00426	5429	
700	1.085	1381800		20.0	.0310	39480		—	—	5180	13
675	1.046	1332500		19.5	.0302	38490		2.50	.00388	4935	
650	1.008	1283100		19.0	.0294	37510		2.25	.00349	4422	
625	.969	1233800		18.5	.0287	36520		—	—	4110	14
600	.930	1184400		18.0	.0279	35530		2.00	.00310	3948	
575	.891	1135100		17.5	.0271	34550		1.75	.00271	3455	
550	.853	1085700		17.0	.0264	33560		—	—	3260	15
525	.814	1036400		—	—	33090	5	1.50	.00233	2961	
500	.775	987000		16.5	.0256	32560		—	—	2580	16
475	.736	937700		16.0	.0248	31580		1.25	.00194	2468	
450	.698	888300		15.5	.0240	30600		—	—	2050	17
425	.659	839000		15.0	.0233	29610		1.00	.00155	1974	
400	.620	789600		14.5	.0225	28620		.90	.00140	1777	
375	.581	740300		14.0	.0217	27640		—	—	1620	18
350	.542	690900		13.5	.0209	26650		.80	.00124	1579	
325	.504	641600		—	—	26420	6	.75	.00116	1481	
300	.465	592200		13.0	.0201	25660		.70	.00109	1382	
275	.426	542900		12.5	.0194	24680		—	—	1290	19
250	.388	493500		12.0	.0186	23690		.60	.00093	1184	
225	.349	444200		11.5	.0178	22700		—	—	1029	20
200	.310	394800		11.0	.0171	21710		.50	.000775	987	
175	.271	345500		—	—	20820	7	—	—	—	
150	.233	296100		10.5	.0163	20730		—	—	—	
125	.1938	246800		10.0	.0155	19740		—	—	—	
—	—	211600	4/0	9.5	.01472	18753		—	—	—	
100	.1550	197400		9.0	.01395	17766		—	—	—	
95	.1472	187530		8.5	.01317	16779		—	—	—	
90	.1395	177660		—	—	16510	8	—	—	—	
—	—	167800	3/0	8.0	.01240	15792		—	—	—	
85	.1317	167790		7.5	.01163	14805		—	—	—	
80	.1240	157920		7.0	.01085	13818		—	—	—	
75	.1163	148050		—	—	13090	9	—	—	—	
70	.1085	138180		6.5	.01008	12831		—	—	—	
—	—	133100	2/0	6.0	.00930	11844		—	—	—	
65	.1008	128310		5.5	.00853	10857		—	—	—	
60	.0930	118440		—	—	10380	10	—	—	—	