

Conversion Tables

Length		
inch [in.]	x 25.4	=millimeters
millimeters [mm]	x 0.03937	=inches
meters [m]	x 3.281	=feet
miles [mi]	x 1.609	=kilometers
kilometers [km]	x 0.6214	=miles
Torque		
Newtonmeter [Nm]	x 0.738	=lb-ft
lb-ft	x 1.356	=Nm
lb-in	x 0.113	=Nm
oz-in	x 0.0071	=Nm
Power		
kilowatt [kW]	x 1.341	=hp
hp	x 0.7457	=kW
Moment of Inertia (WR²)		
lb-ft ²	x 0.042	=kgm ²
kilogrammeter ² [kgm ²]	23.720	=lb-ft ²
Weight Mass and Force		
Newton [N]	x 0.2248	=pound
kilogram [kg]	x 2.205	=pounds
pound [lb]	x 4.448	=N
pound [lb]	x 0.4536	=kg

Metric Cross-Sectional Areas ^a	American Wire Gauge		Metric Cross-Sections Areas ^a	American Wire Gauge	
	Cross-Sectional Area mm ²	Equivalent Metric Area mm ²		AWG or MCM	Cross-Sectional Area mm ²
0.50	0.519	20 AWG	25.0	21.15	4 AWG
0.75	0.653	19	35.0	26.67	3
	0.823	18		33.63	2
1.5	1.04	17	50.0	42.41	1
	1.31	16		53.48	1/0
	1.65	15		67.43	2/0
2.5	2.08	14	70.0	85.03	3/0
	2.62	13		95.0	107.20
4.0	3.31	12	120.0	126.64	250 MCM
	4.17	11		152.00	300
6.0	5.26	10	150.0	177.35	350
	6.63	9		202.71	400
10.0	8.37	8	185.0	253.35	500
	10.55	7		240.0	380.00
16.0	13.30	6	300.0	506.71	1000
	16.77	5		400.0	
			500.0		
			625.0		

^a As per IEC Publ. 228

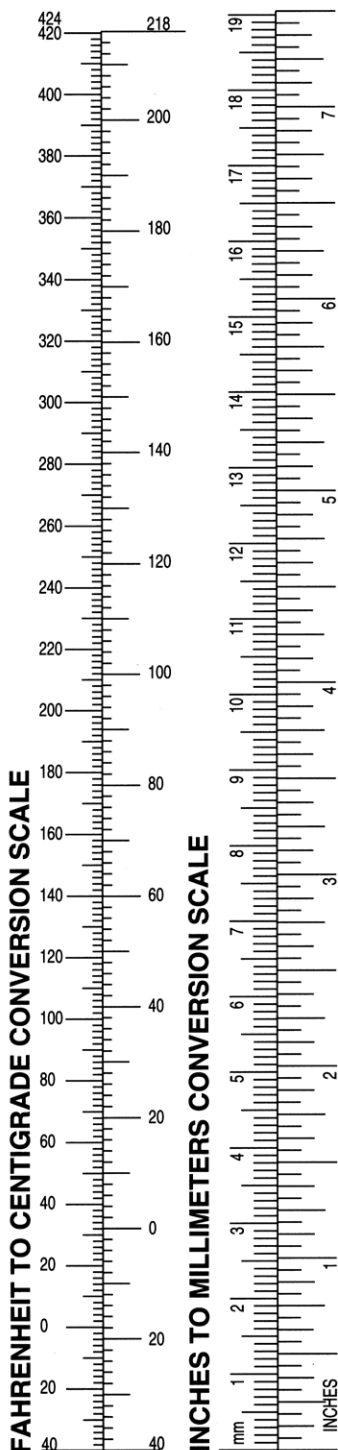
DEGREES CELSIUS VERSUS DEGREES FAHRENHEIT																	
°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F		
-80	-112.0	-20	-4.0	5	41.0	30	86.0	55	131.0	80	176.0	105	221.0	130	266.0	200	392
-70	-94.0	-19	-2.2	6	42.8	31	87.8	56	132.8	81	177.8	106	222.8	131	267.8	210	410
-60	-65.0	-18	-0.4	7	44.6	32	89.6	57	134.6	82	179.6	107	224.6	132	269.6	220	428
-50	-58.0	-17	+1.4	8	46.4	33	91.4	58	136.4	83	181.4	108	226.4	133	271.4	230	446
-45	-49.1	-16	3.2	9	48.2	34	93.2	59	138.2	84	183.2	109	228.2	134	273.2	240	464
-40	-40.0	-15	5.0	10	50.0	35	95.0	60	140.0	85	185.0	110	230.0	135	275.0	250	482
-39	-38.2	-14	6.8	11	51.8	36	96.8	61	141.8	86	186.8	111	231.8	136	276.8	300	572
-38	-36.4	-13	8.6	12	53.6	37	98.6	62	143.6	87	188.6	112	233.6	137	278.6	350	662
-37	-34.6	-12	10.4	13	55.4	38	100.4	63	145.4	88	189.4	113	235.4	138	280.4	400	752
-36	-32.8	-11	12.2	14	57.2	39	102.2	64	147.2	89	192.2	114	237.2	139	282.2	500	932
-35	-31.0	-10	14.0	15	59.0	40	104.0	65	149.0	90	194.0	115	239.0	140	284.0	600	1112
-34	-29.2	-9	15.8	16	60.8	41	105.8	66	150.8	91	195.8	116	240.8	141	285.8	700	1292
-33	-27.4	-8	17.6	17	62.6	42	107.6	67	152.6	92	197.6	117	242.6	142	287.6	800	1472
-32	-25.6	-7	19.4	18	64.4	43	109.4	68	154.4	93	199.4	118	244.4	143	289.4	900	1652
-31	-23.8	-6	21.2	19	66.2	44	111.2	69	156.2	94	201.2	119	246.2	144	291.2	1000	1832
-30	-22.0	-5	23.0	20	68.0	45	113.0	70	158.0	95	203.0	120	248.0	145	293.0	1100	2012
-29	-22.0	-4	24.8	21	69.8	46	114.8	71	159.8	96	204.8	121	249.8	146	294.8	1200	2192
-28	-18.4	-3	26.6	22	71.6	47	116.6	72	161.6	97	206.6	122	251.6	147	296.6	1300	2372
-27	-16.6	-2	28.4	23	73.4	48	118.4	73	163.4	98	208.4	123	253.4	148	298.4	1400	2552
-26	-14.8	-1	30.2	24	75.2	49	120.2	74	165.2	99	210.2	124	255.2	149	300.2	1500	2732
-25	-13.0	0	32.0	25	77.0	50	122.0	75	167.0	100	212.0	125	257.0	150	302.0	1600	2912
-24	-11.2	1	33.8	26	78.8	51	123.8	76	168.8	101	213.8	126	258.8	160	320.0	1700	3092
-23	-9.4	2	35.6	27	80.6	52	125.6	77	170.6	102	215.6	127	260.6	170	338.0	1800	3272
-22	-7.6	3	37.4	28	82.4	53	127.4	78	172.4	103	217.4	128	262.4	180	356.0	1900	3452
-21	-5.8	4	39.2	29	84.2	54	129.2	79	174.2	104	219.2	129	264.2	190	374.0	2000	3632

Conversion Formula °F = 9/5°C + 32°

°C = 5/9(°F-32°)



Conversion Tables



Wire gauge conversion to decimal equivalents

INCH FRAC.	INCH DEC.	MILLI-METERS	INCH FRAC.	INCH DEC.	MILLI-METERS
1/64	.0156	0,397	33/64	.5156	13,097
1/32	.0312	0,794	17/32	.5312	13,494
3/64	.0468	1,191	35/64	.5468	13,891
1/16	.0625	1,588	9/16	.5625	14,288
5/64	.0781	1,984	37/64	.5781	14,684
3/32	.0937	2,381	19/32	.5937	15,081
7/64	.1093	2,778	39/64	.6093	15,478
1/8	.1250	3,175	5/8	.6250	15,875
9/64	.1406	3,572	41/64	.6406	16,272
5/32	.1562	3,969	21/32	.6562	16,669
11/64	.1718	4,366	43/64	.6718	17,066
3/16	.1875	4,763	11/16	.6875	17,463
13/64	.2031	5,159	45/64	.7031	17,859
7/32	.2187	5,556	23/32	.7187	18,256
15/64	.2343	5,954	47/64	.7343	18,653
1/4	.2500	6,350	3/4	.7500	19,050
17/64	.2656	6,747	49/64	.7656	19,447
9/32	.2812	7,144	25/32	.7812	19,844
19/64	.2968	7,541	51/64	.7968	20,241
5/16	.3125	7,938	13/16	.8125	20,638
21/64	.3281	8,334	53/64	.8281	21,034
11/32	.3437	8,731	27/32	.8437	21,431
26/64	.3593	9,128	55/64	.8593	21,828
3/8	.3750	9,525	7/8	.8750	22,225
25/64	.3906	9,922	57/64	.8906	22,622
13/32	.4062	10,319	29/32	.9062	23,019
27/64	.4218	10,716	59/64	.9218	23,416
7/16	.4375	11,113	15/16	.9375	23,813
29/64	.4531	11,509	64/64	.9531	24,209
15/32	.4687	11,906	31/32	.9687	24,606
31/64	.4843	12,303	63/64	.9843	25,003
1/2	.5000	12,700	1	1.0000	25,400

Move decimal point three places to the right to read mills.

DIAMETER			DIAMETER		
AWG	INCHES	CMA	AWG	INCHES	CMA
4/0	.460	212,000	12	.081	6,530
3/0	.410	168,000	13	.072	5,180
2/0	.365	133,000	14	.064	4,110
1/0	.325	106,000	15	.057	3,260
1	.289	83,700	16	.051	2,580
2	.258	66,400	17	.045	2,050
3	.229	52,600	18	.040	1,620
4	.204	41,700	19	.036	1,290
5	.182	33,100	20	.032	1,020
6	.162	26,300	21	.0285	810
7	.144	20,800	22	.0253	642
8	.128	16,500	23	.0226	509
9	.114	13,100	24	.0201	404
10	.102	10,400	25	.0179	320

AWG	mm ²	Standard wires mm ²					
26-22	0,1-0,4	0,14	0,20	0,25	0,35		
22-16	0,25-1,6	0,25	0,35	0,50	0,75	1,0	1,5
16-14	1,0-2,6	1,0	1,5	2,5			
12-10	2,7-6,6	4,0	6,0				
8	6,6-10,5	10					
6	10,5-16,8	16					
4	16,8-26,6	2,5					
2	26,6-42,4	35					
1/0	42,4-60,5	50					
2/0	60,5-76,2	70					
3/0	76,2-96,3	95					
4/0	96,3-117,0	120					

Hole diameter #10 and 3/8" are available in metric ref.

#10 .190 .209 (5,31) M5
3/8" .375 .413 (10,5) M9-10

* All decimals plus or minus .003"
Fractions plus or minus .055".

Stud size with hole sizes.

STANDARD STUD SIZE	SCEW DIA. (")	ETC HOLE DIA. INCH/mm	DIN.
● #0	.060	.094 (2,39)	M1,7-2,2
● #1	.073		
● #2	.086		
● #3	.099	.120 (3,025)	M2,6
● #4	.112		
● #5	.125	.146 (3,71)	M3-3,5
● #6	.138		
● #8	.164	.173 (4,39)	M4
● #10	.190	.198 (5,03)	
● #12	.216	17/64 (6,75)	M6
● #14	.242		
● 1/4"	.250		
● 5/16"	.312	21/64 (8,33)	M8
● 3/8"	.375	25/64 (9,92)	M9
● 7/16"	.437	29/64 (11,51)	M11
● 1/2"	.500	33/64 (13,10)	M12
● 5/8"	.625	21/32 (16,67)	M16
● 3/4"	.750	25/32 (19,84)	M18
● 7/8"	.875	29/32 (23,02)	M20
● 1"	1.000	1-1/32 (26,19)	M25