

Metric Conversion Guide

Conversion Factors

Metric units are used for most linear, weight, and temperature measurements, as well as for thread descriptions.

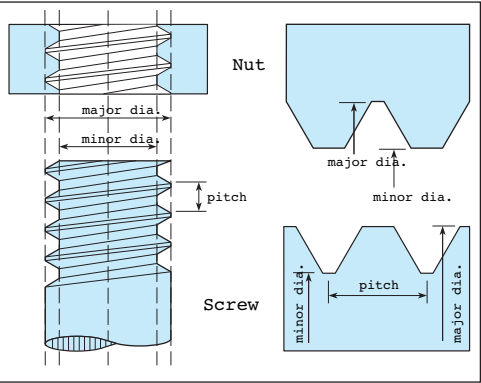
Length	Inch x 25.40 = Millimeters
	Millimeters x 0.03937 = Inches
	Feet x 0.3048 = Meters
	Meters x 3.281 = Feet
	Miles x 1.609 = Kilometers
	Kilometers x 0.6214 = Miles
	Ohms/Kilometer x 0.3048 = Ohms/1000 ft.
Area	Ohms/1000 ft. x 3.2808 = Ohms/Kilometer
	Sq. Inch x 6.452 = Sq. Centimeter
	Sq. Centimeter x 0.1550 = Sq. Inch
	Sq. Foot x 0.0929 = Sq. Meter
	Sq. Meter x 10.76 = Sq. Foot
	Sq. Mile x 2.590 = Sq. Kilometer
	Sq. Kilometer x 0.3861 = Sq. Mile
Volume	Circular Mil x 1,000,000 = Circular In.
	Circular Mil x 0.7854 = Sq. Mil
	Cu. Inch x 16.39 = Cu. Centimeter
	Cu. Centimeter x 0.06102 = Cu. In.
	Cu. Foot x 0.02832 = Cu. Meter
	Cu. Meter x 35.31 = Cu. Foot
Mass	Ounce x 28.35 = Gram
	Gram x 0.03527 = Ounce
	Pound x 0.4536 = Kilogram
	Kilogram x 2.205 = Pound

Metric Threads

Most threaded components and components with mounting holes (such as AC power inlets) listed in this catalog are referred to in terms of their metric dimensions. For example, an M3 mounting hole indicates that the hole is sized for an M3 mounting screw. The metric screw will be referred to in the following format:

M3 X 0.50

As these drawings illustrate, M3 refers to a major diameter of 3mm. The pitch or distance between threads is 0.50mm.



AWG to Metric Wire Sizes Conversion Chart	
AWG	Equivalent in mm ²
20	0.519
18	0.824
17	1.04
16	1.31
15	1.65
14	2.08
13	2.63
12	3.31
11	4.17
10	5.26
9	6.63
8	8.37
7	10.6
6	13.3
5	16.8
4	21.2
3	26.7
2	33.6
1	42.4

Metric Prefixes		
Tera	10 ¹²	T
Giga	10 ⁹	G
Mega	10 ⁶	M
Kilo	10 ³	k
Hecto	10 ²	h
Deca	10 ¹	da
Deci	10 ⁻¹	d
Centi	10 ⁻²	c
Milli	10 ⁻³	m
Micro	10 ⁻⁶	μ
Nano	10 ⁻⁹	n
Pico	10 ⁻¹²	p

Temperature Conversion (Fahrenheit to Celsius)

°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	
- 40.....- 40.00		15.....- 9.44		50.....10.00		85.....29.44		120.....48.89		155.....68.33		190.....87.78		325.....162.78
- 38.....- 38.89		16.....- 8.89		51.....10.56		86.....30.00		121.....49.44		156.....68.88		191.....88.33		330.....165.56
- 36.....- 37.78		17.....- 8.33		52.....11.11		87.....30.56		122.....50.00		157.....69.44		192.....88.88		335.....168.33
- 34.....- 36.67		18.....- 7.78		53.....11.67		88.....31.11		123.....50.55		158.....70.00		193.....89.44		340.....171.11
- 32.....- 35.56		19.....- 7.22		54.....12.22		89.....31.67		124.....51.11		159.....70.55		194.....90.00		345.....173.89
- 30.....- 34.44		20.....- 6.67		55.....12.78		90.....32.22		125.....51.67		160.....71.11		195.....90.55		350.....176.67
- 28.....- 33.33		21.....- 6.11		56.....13.33		91.....32.78		126.....52.22		161.....71.66		196.....91.11		355.....179.44
- 26.....- 32.22		22.....- 5.56		57.....13.89		92.....33.33		127.....52.77		162.....72.22		197.....91.66		360.....182.22
- 24.....- 31.11		23.....- 5.00		58.....14.44		93.....33.89		128.....53.33		163.....72.77		198.....92.22		365.....185.00
- 22.....- 30.00		24.....- 4.44		59.....15.00		94.....34.44		129.....53.88		164.....73.33		199.....92.77		370.....187.78
- 20.....- 28.89		25.....- 3.89		60.....15.56		95.....35.00		130.....54.44		165.....73.89		200.....93.33		375.....190.55
- 18.....- 27.78		26.....- 3.33		61.....16.11		96.....35.56		131.....55.00		166.....74.44		205.....96.11		380.....193.33
- 16.....- 26.67		27.....- 2.78		62.....16.67		97.....36.11		132.....55.55		167.....75.00		210.....98.89		385.....196.11
- 14.....- 25.56		28.....- 2.22		63.....17.22		98.....36.67		133.....56.11		168.....75.55		215.....101.67		390.....198.89
- 12.....- 24.44		29.....- 1.67		64.....17.78		99.....37.22		134.....56.66		169.....76.11		220.....104.44		395.....201.67
- 10.....- 23.33		30.....- 1.11		65.....18.33		100.....37.78		135.....57.22		170.....76.67		225.....107.22		400.....204.44
- 8.....- 22.22		31.....- 0.56		66.....18.89		101.....38.33		136.....57.77		171.....77.22		230.....110.00		405.....207.22
- 6.....- 21.11		32.....0.00		67.....19.44		102.....38.88		137.....58.33		172.....77.77		235.....112.78		410.....210.00
- 4.....- 20.00		33.....0.56		68.....20.00		103.....39.44		138.....58.88		173.....78.33		240.....115.56		415.....212.78
- 2.....- 18.89		34.....1.11		69.....20.56		104.....40.00		139.....59.44		174.....78.88		245.....118.33		420.....215.56
0.....- 17.78		35.....1.67		70.....21.11		105.....40.55		140.....60.00		175.....79.44		250.....121.11		425.....218.33
1.....- 17.22		36.....2.22		71.....21.67		106.....41.11		141.....60.55		176.....80.00		255.....123.89		430.....221.11
2.....- 16.67		37.....2.78		72.....22.22		107.....41.66		142.....61.11		177.....80.55		260.....126.67		435.....223.89
3.....- 16.11		38.....3.33		73.....22.78		108.....42.22		143.....61.66		178.....81.11		265.....129.44		440.....226.67
4.....- 15.56		39.....3.89		74.....23.33		109.....42.77		144.....62.22		179.....81.66		270.....132.22		445.....229.44
5.....- 15.00		40.....4.44		75.....23.89		110.....43.33		145.....62.78		180.....82.22		275.....135.00		450.....232.22
6.....- 14.44		41.....5.00		76.....24.44		111.....43.88		146.....63.33		181.....82.77		280.....137.78		455.....235.00
7.....- 13.89		42.....5.56		77.....25.00		112.....44.44		147.....63.88		182.....83.33		285.....140.55		460.....237.78
8.....- 13.33		43.....6.11		78.....25.56		113.....45.00		148.....64.44		183.....83.88		290.....143.33		465.....240.55
9.....- 12.78		44.....6.67		79.....26.11		114.....45.55		149.....65.00		184.....84.44		295.....146.11		470.....243.33
10.....- 12.22		45.....7.22		80.....26.67		115.....46.11		150.....65.56		185.....85.00		300.....148.89		475.....246.11
11.....- 11.67		46.....7.78		81.....27.22		116.....46.66		151.....66.11		186.....85.55		305.....151.67		480.....248.89
12.....- 11.11		47.....8.33		82.....27.78		117.....47.22		152.....66.66		187.....86.11		310.....154.44		485.....251.67
13.....- 10.56		48.....8.89		83.....28.33		118.....47.77		153.....67.22		188.....86.66		315.....157.22		490.....254.44
14.....- 10.00		49.....9.44		84.....28.89		119.....48.33		154.....67.77		189.....87.22		320.....160.00		495.....257.22



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