

# Conversion Chart, AWG to mm<sup>2</sup>

AWG	mm <sup>2</sup>	AWG	mm <sup>2</sup>	AWG	mm <sup>2</sup>
30	0.05	12	4	300 kcmil	150
28	0.08	10	6	350 kcmil	185
26	0.14	8	10	500 kcmil	240
24	0.25	6	16	600 kcmil	300
22	0.34	4	25	750 kcmil	400
21	0.38	2	35	1000 kcmil	500
20	0.50	1	50		
18	0.75				
17	1.00	2/0	70		
16	1.50	3/0	95		
14	2.50	4/0	120		

This cross reference list shows equivalent nominal values. Actual cross sections may vary.

## General Measuring Units

Length	Equivalent	Weight	Equivalent	Pressure	Equivalent
1 mil	0.0254 mm	1 grain	64.8 mg	1 psi (lb/sq.)	68.95 mbar
1 in (inch)	25.4 mm	1 dram	1.77 g		$6.895 \cdot 10^{-3}$ Nmm <sup>2</sup>
1 ft (foot)	0.3048 m	1 oz (ounce)	28.35 g	1 lb/sq. ft.	0.478 mbar
1 yd (yard)	0.9144 m	1 lb (pound)	0.4536 Kp	1 pdl/sq. ft.	1.489 N/m <sup>2</sup>
1 ch (chain)	20.1 m	1 stone	6.35 Kp	1 in Hg	33.86 mbar
1 mile (land mile)	1.609 km 1,760 yards	1 US-cwt (hundred-weight)	45.36 Kp	1 ft H <sub>2</sub> O	29.89 mbar
1 mile (nautic mile)	1.852 km	1 qu (quarter)	12.7 Kp	1 in H <sub>2</sub> O	2.491 mbar
1 mm	0.0394 in	1 US ton (short ton)	0.907 t	1 N/mm <sup>2</sup>	145 psi
1 m	39.3701 in	1 Brit. ton (long ton)	1.016 t		10 bar
<b>Area</b>	<b>Equivalent</b>	<b>Power Rate</b>	<b>Equivalent</b>	1 kp/mm <sup>2</sup>	1,422 psi
1 CM (circ. mil)	$0.507 \cdot 10^{-3}$ mm <sup>2</sup>	1 PS	0.736 kW	1 at	736 Torr
1 MCM	0.5067 mm <sup>2</sup>	1 kW	1.36 PS	1 Torr	1 mm Hg
1 sq. inch (sq. inch)	645.16 mm <sup>2</sup>	1 hp	0.7457 kW	1 bar	0.1 H Pa
1 sq. ft. (sq. foot)	0.0929 m <sup>2</sup>	1 kW	1.31 hp	1 Pa	1 N/m <sup>2</sup>
1 square yard	0.836 m <sup>2</sup>	<b>Density</b>		<b>Horse power</b>	<b>Equivalent</b>
1 acre	4,047 m <sup>2</sup>	1 lb/cu. ft.	16.02 kg/m <sup>3</sup>	1 hp · h	1.0139 PS · h
1 square mile	2.59 km <sup>2</sup>	1 lb/cu. in.	27.68 t/m <sup>3</sup>		$2.684 \cdot 10^6$ Joule
<b>Volume</b>	<b>Equivalent</b>	<b>Force</b>	<b>Equivalent</b>		746 W · h
1 cu. in. (cubic inch)	16.39 cm <sup>3</sup>	1 lb	4.448 N	1 BTU (Brit. therm. unit)	1,055 Joule
1 cu. ft. (cubic foot)	0.0283 m <sup>3</sup>	1 Brit. ton	9,954 N	<b>Electrical units</b>	<b>Equivalent</b>
1 cu. yd. (cubic yard)	0.7646 m <sup>3</sup>	1 pdl (Poundal)	0.1383 N	1 ohm/1000 yd	1.0936 Ω/km
1 gal. (US gallon)	3.785 L	1 kp	9.81 N	1 ohm/1000 ft	3.28 Ω/km
1 gal. (Brit gallon)	4.546 L	1 N	0.102 kp	1 μF/mile	0.62 μF/km
1 US pint	0.473 L	<b>Energy</b>	<b>Equivalent</b>	1 megohm/mile	1.61 MΩ/km
1 US quart	0.946 L	1 lb/mile	0.282 kg/m	1 μpf/foot	3.28 pF/m
1 US barrel	158.8 L	1 lb/yard	0.496 kg/m	1 decibel/mile	71.5 mN/m
<b>Temperature</b>	<b>Equivalent</b>	1 lb/foot	1.488 kg/m		
F (Fahrenheit)	$(1.8 \cdot C) + 3^{\circ}$	<b>Radiation absorbed dose</b>	<b>Equivalent</b>		
C (Celsius)	$0.5556 \cdot (F - 32^{\circ})$	1 Gray	1 J/kg		
<b>Velocity</b>	<b>Equivalent</b>	1 rad	$10^{-2}$ J/kg = 1 Centi Gy		
1 mile/h	1.609 km/h		0.01 Gy		
1 Knoten	1.852 km/h	1 Centi	100 Joule		
1 ft/s	0.305 m/s	1 rad	cJ/kg = 0.01Gy		
1 ft/min	$5.08 \cdot 10^{-3}$ m/s	1 Mrad	$1 \cdot 10^6$ cJ/kg		