

Engineering Reference

Conversion Chart for American Wire Gauge to Metric System

AWG Size	Metric mm ²	Circ. Mils	Equivalent Circ. Mils	Approximate Wire Diameter	
				in.	mm
-	0.5	-	937	0.032	0.81
20	-	1020	-	0.036	0.91
-	0.75	-	1480	0.039	0.99
18	-	1620	-	0.046	1.16
-	1	-	1974	0.051	1.30
16	-	2580	-	0.051	1.29
-	1.5	-	2960	0.063	1.60
14	-	4110	-	0.073	1.84
-	2.5	-	4934	0.081	2.06
12	-	6530	-	0.092	2.32
-	4	-	7894	0.102	2.59
10	-	10380	-	0.116	2.93
-	6	-	11840	0.126	3.21
8	-	16510	-	0.146	3.70
-	10	-	19740	0.162	4.12
6	-	26240	-	0.184	4.66
-	16	-	31580	0.204	5.18
4	-	41740	-	0.232	5.88
-	25	-	49340	0.260	6.60
2	-	66360	-	0.292	7.42
-	35	-	69070	0.305	7.75
1	-	83690	-	0.332	9.43
-	50	-	98680	0.365	9.27

AWG Size	Metric mm ²	Circ. Mils	Equivalent Circ. Mils	Approximate Wire Diameter	
				in.	mm
1/0	-	106 mcm*	-	0.373	9.46
2/0	-	133 mcm*	-	0.419	10.60
-	70	-	138.1 mcm	0.430	10.90
3/0	-	168 mcm*	-	0.471	12.00
-	95	-	187.5 mcm	0.504	12.80
4/0	-	212 mcm*	-	0.528	13.40
-	120	-	237.8 mcm	0.567	14.40
-	-	250 mcm	-	0.575	14.60
-	150	300 mcm	-	0.630	16.00
-	-	350 mcm	-	0.681	17.30
-	185	-	365.1 mcm	0.700	17.80
-	-	400 mcm	-	0.728	18.50
-	240	-	473.6 mcm	0.801	20.30
-	-	500 mcm	-	0.814	20.70
-	300	-	592.1 mcm	0.891	22.60
-	-	600 mcm	-	0.893	22.70
-	-	700 mcm	-	0.964	24.50
-	-	750 mcm	-	0.999	25.40
-	400	-	789.4 mcm	1.026	26.10
-	-	800 mcm	-	1.032	26.20
-	500	-	986.8 mcm	1.152	29.30
-	-	1000 mcm	-	1.153	29.30
-	625	-	1233.7 mcm	1.287	32.70

* Rounded for simplicity

NOTE: The above wire diameters and circular mils are based on an average of the most commonly available wires. The wire manufacturer's specification should be referenced for information specific to the wire being used.

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