

Logical AWG Number	AWG (and "Aught" *10 Equiv)	MCM or kcmil	Circular MILS	Cross Section mm2	Metric UL486 Equivalent mm2	mm2 Lower	mm2 Higher	Cross Section in2	Diameter SOLID inch	Diameter SOLID mm	Diameter Typ. Stranded inch Approx. Max.
41	41		8	0.00397				0.0000062	0.0028	0.071	
40	40		10	0.00501				0.0000078	0.0031	0.08	
39	39		12	0.00632				0.0000098	0.0035	0.09	
38	38		16	0.00797				0.0000123	0.004	0.101	
37	37		20	0.01005				0.0000156	0.0045	0.113	
36	36		25	0.01267				0.0000196	0.005	0.127	
35	35		32	0.01597				0.0000248	0.0056	0.143	
34	34		40	0.02014				0.0000312	0.0063	0.16	
33	33		50	0.0254				0.0000394	0.0071	0.18	
32	32		63	0.03203				0.0000496	0.008	0.202	
31	31		80	0.04039				0.0000626	0.0089	0.227	
30	30		100	0.05093	0.05			0.0000789	0.01	0.255	
29	29		127	0.06422				0.0000995	0.0113	0.286	
28	28		160	0.08097	0.08			0.000126	0.0126	0.321	
27	27		201	0.10211				0.000158	0.0142	0.361	
26	26		254	0.12875	0.13			0.0002	0.0159	0.405	
25	25		320	0.16235				0.000252	0.0179	0.455	
24	24		404	0.20473	0.2			0.000317	0.0201	0.511	
23	23		509	0.25815				0.0004	0.0226	0.573	
22	22		642	0.32552	0.3			0.000505	0.0253	0.644	
21	21		810	0.41048				0.000636	0.0285	0.723	
20	20		1021	0.5176	0.5	0.5	0.75	0.000802	0.032	0.812	0.036
19	19		1288	0.65268				0.00101	0.0359	0.912	
18	18		1624	0.82301	0.8	0.75	1.0	0.00128	0.0403	1.02	0.046
17	17		2048	1.0378				0.00161	0.0453	1.15	
16	16		2582	1.30864	1.31	1.0	1.5	0.00203	0.0508	1.29	0.058
15	15		3256	1.65016				0.00256	0.0571	1.45	
14	14		4106	2.0808	2.1	1.5	2.5	0.00323	0.0641	1.63	0.073
13	13		5178	2.62384				0.00407	0.072	1.83	
12	12		6529	3.30859	3.3	2.5	4	0.00513	0.0808	2.05	0.092
11	11		8233	4.17204				0.00647	0.0907	2.3	
10	10	10	10382	5.26084	5.3	4	6	0.00815	0.102	2.59	0.116
9	9	13	13091	6.63377		6	10	0.0103	0.114	2.91	0.13
8	8	17	16507	8.36501	8.4	6	10	0.013	0.128	3.26	0.146
7	7	21	20815	10.5481		10	16	0.0163	0.144	3.66	0.164
6	6	26	26248	13.3008	13.3	10	16	0.0206	0.162	4.12	0.184
5	5	33	33098	16.772		16	25	0.026	0.182	4.62	0.206
4	4	42	41735	21.149	21.2	16	25	0.0328	0.204	5.19	0.232
3	3	53	52627	26.6684	26.7	25	35	0.0413	0.229	5.83	0.26
2	2	66	66361	33.6281	33.6	25	35	0.0521	0.258	6.54	0.292
1	1	84	83680	42.4042	42.4	35	50	0.0657	0.289	7.35	0.332
0	1	/0	106	105518	53.4705	53.5	50	0.0829	0.325	8.25	0.373
-1	2	/0	133	133056	67.4249	67.4	50	0.1045	0.365	9.27	0.419
-2	3	/0	168	167780	85.021	85	70	0.1318	0.41	10.4	0.471
-3	4	/0	212	211566	107.209	107	95	0.1662	0.46	11.68	0.528
-3.7	4.7	/0	250	250000	126.677	120	150	0.1963	0.5	12.7	0.575
-4.5	5.5	/0	300	300000	152.012	152	150	0.2356	0.548	13.91	0.63
-5.2	6.2	/0	350	350000	177.348	177	150	0.2749	0.592	15.03	0.681
-5.7	6.7	/0	400	400000	202.683	203	185	0.3142	0.632	16.06	0.728
-6.3	7.3	/0	450	450000	228.018		185	0.3534	0.671	17.04	
-6.7	7.7	/0	500	500000	253.354	253	240	0.3927	0.707	17.96	0.814
-7.5	8.5	/0	600	600000	304.025	304	300	0.4712	0.775	19.67	0.893
-8.2	9.2	/0	700	700000	354.695	355	300	0.5498	0.837	21.25	0.964
-8.5	9.5	/0	750	750000	380.031	380	300	0.589	0.866	22	0.999
-8.7	9.7	/0	800	800000	405.366	405	400	0.6283	0.894	22.72	1.032
-9.2	10.2	/0	900	900000	456.037	456	400	0.7069	0.949	24.1	
-9.7	10.7	/0	1000	1000000	506.708	508	500	0.7854	1	25.4	1.153
-10.7	11.7	/0	1250	1250000	633.384	633	625	0.9817	1.118	28.4	1.289
-11.4	12.4	/0	1500	1500000	760.061	760	625	1.1781	1.225	31.11	1.413
-12.1	13.1	/0	1750	1750000	886.738	887	800	1.3744	1.323	33.6	
-12.7	13.7	/0	2000	2000000	1013.415	1010	1000	1.5708	1.414	35.92	1.632

MCM means 1000's (M) of (C)ircular (M)ils, kcmil means 1000's (K) of (C)ircular (M)ils, Mil means 1/1000 inch, Circular Mil means the area of a circle 1/1000 inch in diameter, AWG = -4.3125 LN (mm2) + 17.16 (approx interpolated), AWG = -4.3125 LN (inch2) - 10.74 (approx interpolated), Logical AWG numbers are based on continuing the series in a logarithmic relationship to the cross sectional area of the wire.