

**Description:** American Wire Gauge (AWG) to Metric Conversion Chart including Conductor Resistance



Below you will find a handy conversion chart showing the American Wire Gauge (AWG) stranding and its metric equivalent, other combinations are possible but below are the most popular.

AWG	Stranding	mm <sup>2</sup> Cross Section	Resistance Ω/km
38	1/0.10	0.008	2130
38	7/0.04	0.009	1930
36	1/0.127	0.013	1360
36	7/0.05	0.014	1217
34	1/0.16	0.020	856
34	7/0.06	0.020	777
32	1/0.20	0.031	532
32	7/0.08	0.035	538
32	19/0.05	0.037	446
30	1/0.25	0.049	338
30	19/0.06	0.054	286
30	7/0.10	0.055	305
28	7/0.12	0.079	195
28	1/0.32	0.080	213
28	19/0.08	0.096	186
26	1/0.40	0.126	134
26	7/0.16	0.141	122
26	19/0.10	0.149	113
24	1/0.51	0.204	84
24	19/0.12	0.215	69
24	7/0.20	0.220	76
22	1/0.64	0.322	53
22	7/0.25	0.344	48
22	19/0.16	0.382	45
20	1/0.81	0.515	33
20	7/0.32	0.563	30.4
20	19/0.20	0.597	28.3

AWG	Stranding	mm <sup>2</sup> Cross Section	Resistance Ω/km
18	16/0.25	0.786	21.2
18	1/1.02	0.817	20.9
18	7/0.40	0.880	19.2
18	19/0.25	0.933	17.9
16	19/0.25	0.933	14.0
16	1/1.29	1.307	13.2
14	19/0.36	1.934	8.86
14	1/1.62	2.061	8.28
12	19/0.45	3.022	5.58
12	1/2.05	3.301	5.21
10	1/2.58	5.229	3.28
10	19/0.60	5.373	3.21
8	1/3.26	8.348	2.06
8	19/0.75	8.395	2.13
6	1/4.11	13.269	1.30
6	19/0.96	13.754	1.30
4	1/5.18	21.077	0.815
4	19/1.19	21.135	0.790
2	19/1.50	33.580	0.560
2	1/6.54	33.597	0.513
1	1/7.34	42.319	0.407
1	19/1.68	42.626	0.424

Resistance figures are given as guidance only and are approximate values.

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