

Conductor resistance at 75 °C

Size	Area mm²	Copper Ω/1000 ft	Aluminum Ω/1000 ft	Copper Ω/km
14 AWG	2.08	3.07	5.05	10.07
12 AWG	3.31	1.93	3.18	6.34
10 AWG	5.26	1.22	2	3.99
8 AWG	8.37	0.764	1.26	2.51
6 AWG	13.3	0.481	0.791	1.58
4 AWG	21.15	0.302	0.497	0.991
3 AWG	26.66	0.24	0.395	0.786
2 AWG	33.63	0.19	0.313	0.624
1 AWG	42.41	0.151	0.248	0.494
1/0 AWG	53.51	0.119	0.197	0.392
2/0 AWG	67.44	0.095	0.156	0.311
3/0 AWG	85.03	0.075	0.124	0.247
4/0 AWG	107.22	0.06	0.098	0.196
250 kcmil	126.68	0.051	0.083	0.166
300 kcmil	152.01	0.042	0.069	0.138
350 kcmil	177.35	0.036	0.059	0.118
500 kcmil	253.35	0.025	0.042	0.083
1.5 mm²	1.5	4.26	7.02	13.98
2.5 mm²	2.5	2.56	4.21	8.39
4 mm²	4	1.6	2.63	5.24
6 mm²	6	1.07	1.75	3.49
10 mm²	10	0.639	1.05	2.1

Size	Area mm ²	Copper Ω/1000 ft	Aluminum Ω/1000 ft	Copper Ω/km
16 mm ²	16	0.399	0.658	1.31
25 mm ²	25	0.256	0.421	0.839
35 mm ²	35	0.183	0.301	0.599
50 mm ²	50	0.128	0.21	0.419
70 mm ²	70	0.091	0.15	0.299
95 mm ²	95	0.067	0.111	0.221
120 mm ²	120	0.053	0.088	0.175
150 mm ²	150	0.043	0.07	0.14
185 mm ²	185	0.035	0.057	0.113
240 mm ²	240	0.027	0.044	0.087

DC resistance from resistivity; manufacturer values for stranded or coated conductors differ slightly.

Notes