



Solid and Stranded Copper Conductor Parameters Per the American Wire Gauge System (AWG) (*)

AWG Solid	Diameter (mm)	Cross-Section (mm ²)	Resistance (Ω/km)	AWG Stranded	Structure		Cross-Section (mm ²)	Diameter (mm)	Resistance (Ω/km)
					AWG	mm			
8	3.26	8.37	2.06	8	49/25	49*0.455	8.007	3.734	2.2
9	2.91	6.63	2.60						
10	2.59	5.26	3.28	10	49*27	49*0.363	5.038	2.946	3.6
11	2.31	4.17	4.13						
12	2.05	3.31	5.21	12	65*30	65*0.254	3.315	2.413	5.7
13	1.83	2.62	6.57						
14	1.63	2.08	8.29	14	41*30	41*0.254	2.091	1.854	8.3
15	1.45	1.65	10.45						
16	1.29	1.31	13.17	16	26*30	26*0.254	1.326	1.499	13.1
17	1.15	1.04	16.61						
18	1.02	0.82	20.95	18	19*30	19*0.254	0.969	1.245	17.9
19	0.91	0.65	26.42						
20	0.81	0.52	33.31	20	10*30	10*0.254	0.507	0.889	33.9
21	0.72	0.41	42.00						
22	0.64	0.33	52.96	22	19*34	19*0.160	0.384	0.787	45.1
23	0.57	0.26	66.79						
24	0.51	0.21	84.22	24	19*36	19*0.127	0.241	0.61	69.2
25	0.46	0.16	106.2						
26	0.41	0.13	133.9	26	19/38	19*0.102	0.155	0.508	113
27	0.36	0.10	168.9						
28	0.32	0.08	212.9	28	19/40	19*0.078	0.093	0.406	186
29	0.29	0.06	268.5						
30	0.26	0.05	338.6	30	19/42	19*0.064	0.061	0.305	286
31	0.23	0.04	426.9						
32	0.20	0.03	538.3	32	19/44	19*0.05	0.038	0.229	448

(*) Various wire combinations exist for stranded conductors. Only representative wires are shown.