NEC 2020 • 2023 • 2026 COMPLIANT

NEC CHAPTER 9 TABLE 8: CONDUCTOR PROPERTIES

SIZE (AWG/KCMIL)	AREA (CIRC. MILS)	DIAMETER (IN) [CLASS B]	COPPER RES (OHMS/KFT)	ALUM RES (OHMS/KFT)
14	4,110	0.073	3.07	5.04
12	6,530	0.092	1.93	3.17
10	10,380	0.116	1.21	1.99
8	16,510	0.146	0.778	1.28
6	26,240	0.184	0.491	0.808
4	41,740	0.232	0.308	0.508
2	66,360	0.292	0.194	0.319
1/0	105,600	0.372	0.122	0.201
2/0	133,100	0.418	0.0967	0.159
3/0	167,800	0.470	0.0766	0.126
4/0	211,600	0.528	0.0608	0.100
250	250,000	0.641	0.0515	0.0847
300	300,000	0.695	0.0435	0.0715
350	350,000	0.744	0.0378	0.0620

SIZE (AWG/KCMIL)	AREA (CIRC. MILS)	DIAMETER (IN) [CLASS B]	COPPER RES (OHMS/KFT)	ALUM RES (OHMS/KFT)
400	400,000	0.789	0.0336	0.0551
500	500,000	0.893	0.0276	0.0453
600	600,000	0.964	0.0223	0.0366
700	700,000	0.986	0.0189	0.0310
750	750,000	0.998	0.0176	0.0289
800	800,000	1.029	0.0166	0.0272
900	900,000	1.090	0.0147	0.0241
1000	1,000,000	1.152	0.0132	0.0216
1250	1,250,000	1.289	0.0106	0.0174
1500	1,500,000	1.412	0.00883	0.0145
1750	1,750,000	1.526	0.00756	0.0124
2000	2,000,000	1.632	0.00662	0.0108

ZING²
TECHNICAL REFERENCE DATA
PRO GRADE DOCUMENTATION
ONLINE ELECTRICAL TOOLS
https://zing2.app
VISIT ZING2.APP FOR FULL TABLE