

Conductor

Table 1: Solid Copper Wire, American Wire Gage

Gage (AWG)	Nominal OD			Nominal Circular MIL Area	Nominal Weight		Nominal Resistance @ 68°F (20°C)	
	inch	mm	mm ²		lbs./1000 ft.	kg/km	Ω/1000 ft.	Ω/km
40	0.0031	0.079	0.005	9.61	0.02993	0.04	1080.0	3542.40
39	0.0035	0.089	0.006	12.20	0.03774	0.06	847.8	2780.78
38	0.0040	0.102	0.008	15.72	0.04759	0.07	648.6	2127.41
37	0.0045	0.114	0.010	19.83	0.0613	0.09	512.1	1679.69
36	0.0050	0.127	0.013	25.00	0.07568	0.11	414.8	1360.54
35	0.0056	0.142	0.016	31.52	0.09542	0.14	331.0	1085.68
34	0.0063	0.160	0.020	39.75	0.1203	0.18	260.9	855.75
33	0.0071	0.180	0.025	50.13	0.1517	0.23	206.9	678.63
32	0.0080	0.203	0.032	63.21	0.1913	0.28	164.1	538.25
31	0.0089	0.226	0.040	79.7	0.2413	0.36	130.1	426.73
30	0.0100	0.254	0.051	100.5	0.3042	0.45	103.2	338.50
29	0.0113	0.287	0.064	126.7	0.3836	0.57	81.83	268.40
28	0.0126	0.320	0.080	159.8	0.4837	0.72	64.90	212.87
27	0.0142	0.361	0.102	201.5	0.6100	0.91	51.47	168.82
26	0.0159	0.404	0.127	253.0	0.7692	1.14	40.81	133.86
25	0.0179	0.455	0.163	320.4	0.9699	1.44	32.37	106.17
24	0.0201	0.511	0.203	404.0	1.223	1.82	25.67	84.20
23	0.0226	0.574	0.259	511.5	1.542	2.29	20.36	66.78
22	0.0253	0.643	0.322	640.4	1.945	2.89	16.14	52.94
21	0.0285	0.724	0.412	812.1	2.452	3.65	12.80	41.98
20	0.0320	0.813	0.514	1020.0	3.092	4.60	10.15	33.29
19	0.0359	0.912	0.653	1200.0	3.899	5.80	8.051	26.41
18	0.0403	1.02	0.816	1620.0	4.917	7.32	6.385	20.94
17	0.0453	1.15	1.039	2050.0	6.200	9.22	5.064	16.61
16	0.0508	1.29	1.300	2583.0	7.818	11.63	4.016	13.17
15	0.0571	1.45	1.651	3260.0	9.858	14.67	3.184	10.44
14	0.0641	1.63	2.070	4107.0	12.43	18.49	2.525	8.28
13	0.0720	1.83	2.630	5178.0	15.68	23.33	2.003	6.57
12	0.0808	2.05	3.290	6530.0	19.77	29.41	1.588	5.21
11	0.0907	2.30	4.155	8234.0	24.92	37.08	1.260	4.13
10	0.1019	2.60	5.230	10380.0	31.43	46.76	0.9989	3.28

* AWG 10 through 30 per UL Subject 13.

Information from National Bureau of Standards Copper Wire Tables – Handbook 100.

Unparalleled Performance

Belden is one of only a very few cable manufacturers to draw and anneal its own conductors. This is a time-consuming process, but it allows us to ensure signal integrity, as well as proper physical characteristics.

In addition, the standards under which we design and manufacture our fiber optic cabling are among the strictest in the industry. The result is a comprehensive offering of products which give unparalleled performance and can satisfy your most demanding operating and environmental challenges.