



Conductor Facts / American Wire Gauge

Nominal values for annealed copper (C110)

AWG	DIAMETER	CROSS-SECTIONAL AREA		WEIGHT	LENGTH	RESISTANCE @ 20°C
	inch	CMA	in ²	lb/mft	ft/lb	ohm/mft
1	0.2893	83,693	0.06573	253.3	3.947	0.1239
2	0.2576	66,371	0.05213	200.9	4.977	0.1563
3	0.2294	52,635	0.04134	159.3	6.276	0.1970
4	0.2043	41,741	0.03278	126.4	7.914	0.2485
5	0.1819	33,102	0.02600	100.2	9.980	0.3133
6	0.1620	26,251	0.02062	79.46	12.58	0.3951
7	0.1443	20,818	0.01635	63.02	15.87	0.4982
8	0.1285	16,510	0.01297	49.97	20.01	0.6282
9	0.1144	13,093	0.01028	39.63	25.23	0.7921
10	0.1019	10,383	0.008155	31.43	31.82	0.9988
11	0.09074	8,234	0.006467	24.92	40.12	1.260
12	0.08081	6,530	0.005129	19.77	50.59	1.588
13	0.07196	5,178	0.004067	15.68	63.79	2.003
14	0.06408	4,107	0.003225	12.43	80.44	2.525
15	0.05707	3,257	0.002558	9.858	101.4	3.184
16	0.05082	2,583	0.002028	7.818	127.9	4.015
17	0.04526	2,048	0.001609	6.200	161.3	5.063
18	0.04030	1,624	0.001276	4.917	203.4	6.385
19	0.03589	1,288	0.001012	3.899	256.5	8.051
20	0.03196	1,022	0.0008023	3.092	323.4	10.15
21	0.02846	810.1	0.0006363	2.452	407.8	12.80
22	0.02535	642.4	0.0005046	1.945	514.2	16.14
23	0.02257	509.5	0.0004001	1.542	648.4	20.36
24	0.02010	404.0	0.0003173	1.223	817.6	25.67
25	0.01790	320.4	0.0002517	0.9699	1,031	32.37
26	0.01594	254.1	0.0001996	0.7692	1,300	40.81
27	0.01420	201.5	0.0001583	0.6100	1,639	51.47
28	0.01264	159.8	0.0001255	0.4837	2,067	64.90
29	0.01126	126.7	0.00009954	0.3836	2,607	81.83
30	0.01003	100.5	0.00007894	0.3042	3,287	103.2
31	0.00893	79.70	0.00006260	0.2413	4,145	130.1
32	0.00795	63.21	0.00004964	0.1913	5,227	164.1
33	0.00708	50.13	0.00003937	0.1517	6,591	206.9
34	0.0063	39.75	0.00003122	0.1203	8,311	260.9
35	0.00561	31.52	0.00002476	0.0954	10,479	329.0
36	0.00500	25.00	0.00001963	0.0757	13,214	414.8

Custom constructions are available, please contact the sales department

The information provided on this page is for reference purposes only.

Fisk Alloy Wire, Inc. • P.O. Box 26 • 10 Thomas Road • Hawthorne, NJ 07507 U.S.A.

Phone: 855-4-PERCON (855-473-7266) • Fax (973) 427-4585 • E-mail: sales@fiskalloy.com

Nominal values for annealed copper (C110)

AWG	DIAMETER	CROSS-SECTIONAL AREA		WEIGHT	LENGTH	RESISTANCE @ 20°C
	inch	CMA	in ²	lb/mft	ft/lb	ohm/mft
37	0.00445	19.83	0.00001557	0.0600	16,663	523.1
38	0.00397	15.72	0.00001235	0.0476	21,012	659.6
39	0.00353	12.47	0.00000979	0.0377	26,495	831.8
40	0.00314	9.888	0.00000777	0.0299	33,410	1,049
41	0.00280	7.842	0.00000616	0.0237	42,129	1,323
42	0.00249	6.219	0.00000488	0.0188	53,124	1,668
43	0.00222	4.932	0.00000387	0.0149	66,988	2,103
44	0.00198	3.911	0.00000307	0.0118	84,470	2,652
45	0.00176	3.102	0.00000244	0.0094	106,515	3,344
46	0.00157	2.460	0.00000193	0.0074	134,313	4,216
47	0.00140	1.951	0.00000153	0.0059	169,366	5,317
48	0.00124	1.547	0.00000121	0.0047	213,566	6,704
49	0.00111	1.227	0.000000963	0.0037	269,302	8,454
50	0.00099	0.9728	0.000000764	0.0029	339,583	10,661
51	0.00088	0.7715	0.000000606	0.0023	428,207	13,443
52	0.00078	0.6118	0.000000481	0.0019	539,959	16,951
53	0.00070	0.4852	0.000000381	0.0015	680,876	21,375
54	0.00062	0.3848	0.000000302	0.0012	858,568	26,953
55	0.00055	0.3051	0.000000240	0.00092	1,082,635	33,987
56	0.00049	0.2420	0.000000190	0.00073	1,365,177	42,857
57	0.00044	0.1919	0.000000151	0.00058	1,721,456	54,042
58	0.00039	0.1522	0.000000120	0.00046	2,170,716	68,145
59	0.00035	0.1207	0.000000095	0.00037	2,737,223	85,930
60	0.00031	0.0957	0.000000075	0.00029	3,451,574	108,355

Custom constructions are available, please contact the sales department

The information provided on this page is for reference purposes only.

Fisk Alloy Wire, Inc. • P.O. Box 26 • 10 Thomas Road • Hawthorne, NJ 07507 U.S.A.

Phone: 855-4-PERCON (855-473-7266) • Fax (973) 427-4585 • E-mail: sales@fiskalloy.com

Nominal values for annealed copper (C110)

AWG	DIAMETER	CROSS-SECTIONAL AREA		WEIGHT	LENGTH	RESISTANCE @ 20°C
	mm	CMA	mm ²	kg/km	m/kg	ohm/km
1	7.348	83,693	42.41	377.0	2.652	0.4066
2	6.544	66,371	33.63	299.0	3.345	0.5127
3	5.827	52,635	26.67	237.1	4.218	0.6464
4	5.189	41,741	21.15	188.0	5.318	0.8152
5	4.621	33,102	16.77	149.1	6.706	1.028
6	4.115	26,251	13.30	118.3	8.456	1.296
7	3.665	20,818	10.55	93.78	10.66	1.634
8	3.264	16,510	8.366	74.37	13.45	2.061
9	2.906	13,093	6.634	58.98	16.96	2.599
10	2.588	10,383	5.261	46.77	21.38	3.277
11	2.305	8,234	4.172	37.09	26.96	4.132
12	2.053	6,530	3.309	29.41	34.00	5.211
13	1.828	5,178	2.624	23.33	42.87	6.571
14	1.628	4,107	2.081	18.50	54.06	8.285
15	1.450	3,257	1.650	14.67	68.16	10.45
16	1.291	2,583	1.309	11.63	85.95	13.17
17	1.150	2,048	1.038	9.226	108.4	16.61
18	1.024	1,624	0.823	7.317	136.7	20.95
19	0.9116	1,288	0.6527	5.803	172.3	26.41
20	0.8118	1,022	0.5176	4.602	217.3	33.31
21	0.7229	810.1	0.4105	3.649	274.0	42.00
22	0.6438	642.4	0.3255	2.894	345.5	52.96
23	0.5733	509.5	0.2582	2.295	435.7	66.78
24	0.5106	404.0	0.2047	1.820	549.4	84.21
25	0.4547	320.4	0.1624	1.443	692.8	106.2
26	0.4049	254.1	0.1288	1.145	873.6	133.9
27	0.3606	201.5	0.1021	0.9077	1,102	168.9
28	0.3211	159.8	0.08098	0.7199	1,389	212.9
29	0.2859	126.7	0.06422	0.5709	1,752	268.5
30	0.2546	100.5	0.05093	0.4527	2,209	338.5
31	0.2268	79.70	0.04039	0.3590	2,785	426.9
32	0.2019	63.21	0.03203	0.2847	3,512	538.3
33	0.1798	50.13	0.02540	0.2258	4,429	678.8
34	0.1601	39.75	0.02014	0.1791	5,585	856.0
35	0.1426	31.52	0.01597	0.1420	7,042	1,079

Custom constructions are available, please contact the sales department

The information provided on this page is for reference purposes only.

Fisk Alloy Wire, Inc. • P.O. Box 26 • 10 Thomas Road • Hawthorne, NJ 07507 U.S.A.
 Phone: 855-4-PERCON (855-473-7266) • Fax (973) 427-4585 • E-mail: sales@fiskalloy.com

Nominal values for annealed copper (C110)

AWG	DIAMETER	CROSS-SECTIONAL AREA		WEIGHT	LENGTH	RESISTANCE @ 20°C
	mm	CMA	mm ²	kg/km	m/kg	ohm/km
36	0.1270	25.00	0.01267	0.1126	8,880	1,361
37	0.1131	19.83	0.01005	0.0893	11,197	1,716
38	0.1007	15.72	0.00797	0.0708	14,119	2,164
39	0.08969	12.47	0.00632	0.0562	17,804	2,729
40	0.07987	9.888	0.00501	0.0445	22,451	3,441
41	0.07113	7.842	0.00397	0.0353	28,310	4,339
42	0.06334	6.219	0.00315	0.0280	35,698	5,472
43	0.05641	4.932	0.00250	0.0222	45,014	6,899
44	0.05023	3.911	0.00198	0.0176	56,762	8,700
45	0.04473	3.102	0.00157	0.0140	71,576	10,971
46	0.03984	2.460	0.00125	0.0111	90,255	13,834
47	0.03547	1.951	0.00099	0.00879	113,810	17,444
48	0.03159	1.547	0.00078	0.00697	143,511	21,996
49	0.02813	1.227	0.00062	0.00553	180,964	27,737
50	0.02505	0.9728	0.00049	0.00438	228,192	34,976
51	0.02231	0.7715	0.00039	0.00348	287,744	44,103
52	0.01987	0.6118	0.00031	0.00276	362,839	55,613
53	0.01769	0.4852	0.00025	0.00219	457,532	70,127
54	0.01576	0.3848	0.00019	0.00173	576,937	88,429
55	0.01403	0.3051	0.00015	0.00137	727,504	111,506
56	0.01249	0.2420	0.00012	0.00109	917,365	140,607
57	0.01113	0.1919	0.00010	0.00086	1,156,776	177,302
58	0.00991	0.1522	0.000077	0.00069	1,458,668	223,574
59	0.00882	0.1207	0.000061	0.00054	1,839,346	281,922
60	0.00786	0.0957	0.000048	0.00043	2,319,373	355,496

Custom constructions are available, please contact the sales department

The information provided on this page is for reference purposes only.

Fisk Alloy Wire, Inc. • P.O. Box 26 • 10 Thomas Road • Hawthorne, NJ 07507 U.S.A.
 Phone: 855-4-PERCON (855-473-7266) • Fax (973) 427-4585 • E-mail: sales@fiskalloy.com