

Dimensional values derived from NEMA MW1000-2015 Standard

Copper

SIZE (AWG)	BARE COPPER									HEAVY BUILD			SIZE (AWG)
	DIMENSIONS (INCHES)			RESISTANCE* (OHMS PER 1000 FT. AT 20°C)			SQUARE MILS	CORNER RADIUS	POUNDS PER 1000 FT.	DIMENSIONS (INCHES)			
	MIN.	NOM.	MAX.	MIN.	NOM.	MAX.	NOM.	NOM.		MIN. INCREASE	MIN. O.D.	MAX. O.D.	
1	.2864	.2893	.2922	.09627	.09895	.1020	82320	.039	317.2	.003	.2894	.2972	1
2	.2550	.2576	.2602	.1217	.1253	.1295	64980	.039	250.4	.003	.2580	.2652	2
3	.2271	.2294	.2317	.1539	.1589	.1648	51250	.039	197.5	.003	.2301	.2367	3
4	.2023	.2043	.2063	.1949	.2018	.2100	40370	.039	155.6	.003	.2053	.2113	4
5	.1801	.1819	.1837	.2470	.2568	.2689	31710	.039	122.2	.003	.1831	.1887	5
6	.1604	.1620	.1636	.3101	.3211	.3345	25360	.031	97.75	.003	.1634	.1686	6
7	.1429	.1443	.1457	.3929	.4084	.4277	19940	.031	76.86	.003	.1459	.1507	7
8	.1272	.1285	.1298	.4981	.5210	.5501	15630	.031	60.25	.003	.1302	.1348	8
9	.1133	.1144	.1155	.6267	.6513	.6812	12510	.026	48.20	.003	.1163	.1205	9
10	.1009	.1019	.1029	.7951	.8309	.8757	9803	.026	37.78	.003	.1039	.1079	10
11	.0897	.0907	.0917	.9914	1.033	1.085	7883	.020	30.38	.003	.0927	.0967	11
12	.0798	.0808	.0818	1.254	1.317	1.397	6185	.020	23.84	.003	.0828	.0868	12
13	.0710	.0720	.0730	1.565	1.641	1.734	4964	.016	19.13	.003	.0740	.0780	13
14	.0631	.0641	.0651	1.980	2.094	2.239	3889	.016	14.99	.003	.0661	.0701	14

*Based on 100% conductivity IACS

Aluminum

SIZE (AWG)	BARE ALUMINUM									HEAVY BUILD			SIZE (AWG)
	DIMENSIONS (INCHES)			RESISTANCE* (OHMS PER 1000 FT. AT 20°C)			SQUARE MILS	CORNER RADIUS	POUNDS PER 1000 FT.	DIMENSIONS (INCHES)			
	MIN.	NOM.	MAX.	MIN.	NOM.	MAX.	NOM.	NOM.		MIN. INCREASE	MIN. O.D.	MAX. O.D.	
1	.2864	.2893	.2922	.1558	.1601	.1650	82320	.039	96.46	.003	.2894	.2972	1
2	.2550	.2576	.2602	.1969	.2028	.2096	64980	.039	76.15	.003	.2580	.2652	2
3	.2271	.2294	.2317	.2491	.2572	.2666	51250	.039	60.06	.003	.2301	.2367	3
4	.2023	.2043	.2063	.3154	.3265	.3399	40370	.039	47.30	.003	.2053	.2113	4
5	.1801	.1819	.1837	.3997	.4156	.4351	31710	.039	37.16	.003	.1831	.1887	5
6	.1604	.1620	.1636	.5017	.5196	.5412	25360	.031	29.72	.003	.1634	.1686	6
7	.1429	.1443	.1457	.6357	.6609	.6920	19940	.031	23.37	.003	.1459	.1507	7
8	.1272	.1285	.1298	.8059	.8431	.8902	15630	.031	18.32	.003	.1302	.1348	8
9	.1133	.1144	.1155	1.014	1.054	1.102	12510	.026	14.66	.003	.1163	.1205	9
10	.1009	.1019	.1029	1.286	1.344	1.417	9803	.026	11.49	.003	.1039	.1079	10
11	.0897	.0907	.0917	1.604	1.672	1.755	7883	.020	9.237	.003	.0927	.0967	11
12	.0798	.0808	.0818	2.028	2.131	2.260	6185	.020	7.248	.003	.0828	.0868	12
13	.0710	.0720	.0730	2.532	2.655	2.806	4964	.016	5.817	.003	.0740	.0780	13
14	.0631	.0641	.0651	3.203	3.389	3.623	3889	.016	4.557	.003	.0661	.0701	14

*Based on 61.8% conductivity IACS