

SECTION 4
NOMINAL MASS PER LENGTH AND
DRAWING HORSEPOWER OF BARE ROUND
COPPER CONDUCTORS. VALUES AT 20°C

AWG SIZE	(A) LBS PER 1000 FT	KG PER KILOMETER	FT PER POUND	DRAWING HP PER DIE PER 1000 FPM	AWG SIZE
5/0	807.700	1201.900	1.238	140	5/0
4/0	640.500	953.100	1.561	113	4/0
3/0	507.800	755.600	1.969	91	3/0
2/0	402.800	599.400	2.482	75	2/0
1/0	319.500	475.300	3.130	61	1/0
1	253.300	376.900	3.947	49	1
2	200.900	298.900	4.978	40	2
3	159.300	237.000	6.278	32	3
4	126.300	188.000	7.915	26	4
5	100.200	149.000	9.984	21	5
6	79.440	118.200	12.590	17	6
7	63.030	93.800	15.870	14	7
8	49.980	74.380	20.010	11.3	8
9	39.620	58.950	25.240	9.1	9
10	31.430	46.770	31.820	7.5	10
11	24.900	37.060	40.20	6.1	11
12	19.760	29.410	50.60	4.9	12
13	15.690	23.350	63.70	3.2	13
14	12.440	18.510	80.40	2.6	14
15	9.869	14.690	101	2.1	15
16	7.812	11.620	128	1.7	16
17	6.212	9.244	161	1.4	17
18	4.916	7.316	203	1.13	18
19	3.901	5.806	256	0.91	19
20	3.100	4.613	323	0.75	20

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AWG SIZE	(A) LBS PER 1000 FT	KG PER KILOMETER	FT PER POUND	DRAWING HP PER DIE PER 1000 FPM	AWG SIZE
21	2.4590	3.659	407	0.610	21
22	1.9380	2.883	516	0.490	22
23	1.5460	2.301	647	0.400	23
24	1.2230	1.82	818	0.320	24
25	0.9699	1.443	1030	0.260	25
26	0.7653	1.139	1310	0.210	26
27	0.6104	0.9083	1640	0.170	27
28	0.4806	0.7152	2080	0.140	28
29	0.3865	0.5752	2590	0.113	29
30	0.3027	0.4505	3300	0.091	30
31	0.2398	0.3568	4170	0.075	31
32	0.1937	0.2883	5160	0.061	32
33	0.1526	0.2271	6550	0.049	33
34	0.1201	0.1788	8320	0.040	34
35	0.09493	0.1413	10500	0.032	35
36	0.07568	0.1126	13200	0.026	36
37	0.06130	0.09122	16300	0.021	37
38	0.04843	0.07207	20600	0.017	38
39	0.03708	0.05518	27000	0.014	39
40	0.02909	0.04329	34400		
41	0.02373	0.03532	42100		
42	0.01892	0.02815	52900		
43	0.01465	0.02180	68300		
44	0.01211	0.01802	82600		

FOOTNOTE:

**(A) Since $Wt = \text{Density} \times \text{Area} \times \text{Length}$
 $\text{Lbs/Mft} = 0.003027 D^2$**

Where $d = \text{Diameter of bare conductor, mils}$

See NBS Handbook 100