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Standard Wire Gauge Chart in MM

Outside diameters		22 SWG 0.711 mm	20 SWG 0.914 mm	18 SWG 1.218 mm	16 SWG 1.625 mm
Inches	mm	KG/Mtr	KG/Mtr	KG/Mtr	KG/Mtr
1/4"	6.35	-	0.124	0.157	0.192
5/16"	7.95	-	0.161	0.205	0.257
3/8"	9.525	-	0.197	0.253	0.321
1/2"	12.7	0.213	0.27	0.35	0.451
5/8"	15.875	0.27	0.342	0.447	0.58
3/4"	19.05	-	0.415	0.544	0.709
7/8"	22.225	0.383	0.448	0.641	0.838
1"	25.4	0.44	0.56	0.738	0.967
1 1/4"	31.75	0.553	0.706	0.931	1.23
1 1/2"	38.1	0.666	0.851	1.13	1.48
1 3/4"	44.45	0.779	0.996	1.32	1.74
2"	50.8	0.892	1.14	1.51	2
2 1/2"	63.5	-	-	1.9	2.52
3"	76.2	-	-	2.29	3.03
3 1/2"	88.9	-	-	2.67	3.55
4"	101.6	-	-	3.06	4.07
5"	127	-	-	3.628	4.97
5 1/2"	139.7	-	-	4	5.481
6"	152.4	-	-	4.36	6
6 1/2"	161.1	-	-	4.72	6.48

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Outside diameters		14 SWG 2.032 mm	12 SWG 2.641 mm	11 SWG 2.946 mm	10 SWG 3.257 mm
Inches	mm	KG/Mtr	KG/Mtr	KG/Mtr	KG/Mtr
1/4"	6.35	-	-	-	-
5/16"	7.95	-	-	-	-
3/8"	9.525	0.381	-	-	-
1/2"	12.7	0.543	0.665	0.72	-
5/8"	15.875	0.704	0.875	0.954	-
3/4"	19.05	0.866	1.09	1.19	1.29
7/8"	22.225	1.03	1.3	1.42	1.55
1"	25.4	1.19	1.51	1.66	1.8
1 1/4"	31.75	1.51	1.93	2.13	2.32
1 1/2"	38.1	1.84	2.35	2.59	2.84
1 3/4"	44.45	2.16	2.77	3.06	3.35
2"	50.8	2.48	3.19	3.53	3.87
2 1/2"	63.5	3.13	4.03	4.47	4.91
3"	76.2	3.77	4.87	5.4	5.64
3 1/2"	88.9	4.42	5.7	6.34	6.97
4"	101.6	5.07	6.54	7.28	8.01
5"	127	6.01	7.926	-	9.673
5 1/2"	139.7	6.624	8.736	-	10.675
6"	152.4	7.33	9.545	-	11.699
6 1/2"	161.1	7.84	10.419	-	12.72

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SWG Wire Gauge Chart

Standard Wire Gauge	Diameter		Turns of wire		Cross-sectional area	
	in	mm	in ⁻¹	mm ⁻¹	kcmil	mm ²
0000000 (7/0)	0.5	12.7	2	0.0787	250	127
000000 (6/0)	0.464	11.8	2.16	0.0848	215	109
00000 (5/0)	0.432	11	2.31	0.0911	187	94.6
0000 (4/0)	0.4	10.2	2.5	0.0984	160	81.1
000 (3/0)	0.372	9.45	2.69	0.106	138	70.1
00 (2/0)	0.348	8.84	2.87	0.113	121	61.4
0 (1/0)	0.324	8.23	3.09	0.122	105	53.2
1	0.3	7.62	3.33	0.131	90	45.6
2	0.276	7.01	3.62	0.143	76.2	38.6
3	0.252	6.4	3.97	0.156	63.5	32.2
4	0.232	5.89	4.31	0.17	53.8	27.3
5	0.212	5.38	4.72	0.186	44.9	22.8
6	0.192	4.88	5.21	0.205	36.9	18.7
7	0.176	4.47	5.68	0.224	31	15.7
8	0.16	4.06	6.25	0.246	25.6	13
9	0.144	3.66	6.94	0.273	20.7	10.5
10	0.128	3.25	7.81	0.308	16.4	8.3
11	0.116	2.95	8.62	0.339	13.5	6.82
12	0.104	2.64	9.62	0.379	10.8	5.48
13	0.092	2.34	10.9	0.428	8.46	4.29
14	0.08	2.03	12.5	0.492	6.4	3.24
15	0.072	1.83	13.9	0.547	5.18	2.63
16	0.064	1.63	15.6	0.615	4.1	2.08
17	0.056	1.42	17.9	0.703	3.14	1.59
18	0.048	1.22	20.8	0.82	2.3	1.17
19	0.04	1.02	25	0.984	1.6	0.811
20	0.036	0.914	27.8	1.09	1.3	0.657
21	0.032	0.813	31.3	1.23	1.02	0.519
22	0.028	0.711	35.7	1.41	0.784	0.397
23	0.024	0.61	41.7	1.64	0.576	0.292
24	0.022	0.559	45.5	1.79	0.484	0.245
25	0.02	0.508	50	1.97	0.4	0.203
26	0.018	0.457	55.6	2.19	0.324	0.164
27	0.0164	0.417	61	2.4	0.269	0.136
28	0.0148	0.376	67.6	2.66	0.219	0.111
29	0.0136	0.345	73.5	2.89	0.185	0.0937
30	0.0124	0.315	80.6	3.18	0.154	0.0779

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Standard Wire Gauge	Diameter	Res. per length (for copper wire)		Mass per length		Current Capacity (A)	
		Ω /kft	Ω /km	lb/ft	kg/m	750 cmil/A	500 cmil/A
0000000 (7/0)	0.5	0.136	0.447	0.759	1.13	333	500
000000 (6/0)	0.464	0.158	0.519	0.654	0.973	287	431
00000 (5/0)	0.432	0.182	0.598	0.567	0.844	249	373
0000 (4/0)	0.4	0.213	0.698	0.486	0.723	213	320
000 (3/0)	0.372	0.246	0.807	0.42	0.625	185	277
00 (2/0)	0.348	0.281	0.922	0.368	0.547	161	242
0 (1/0)	0.324	0.324	1.06	0.319	0.474	140	210
1	0.3	0.378	1.24	0.273	0.407	120	180
2	0.276	0.447	1.47	0.231	0.344	102	152
3	0.252	0.536	1.76	0.193	0.287	84.7	127
4	0.232	0.632	2.07	0.163	0.243	71.8	108
5	0.212	0.757	2.48	0.137	0.203	59.9	89.9
6	0.192	0.923	3.03	0.112	0.167	49.2	73.7
7	0.176	1.1	3.6	0.0941	0.14	41.3	62
8	0.16	1.33	4.36	0.0778	0.116	34.1	51.2
9	0.144	1.64	5.38	0.063	0.0937	27.6	41.5
10	0.128	2.08	6.81	0.0498	0.0741	21.8	32.8
11	0.116	2.53	8.3	0.0409	0.0608	17.9	26.9
12	0.104	3.15	10.3	0.0329	0.0489	14.4	21.6
13	0.092	4.02	13.2	0.0257	0.0383	11.3	16.9
14	0.08	5.32	17.4	0.0194	0.0289	8.53	12.8
15	0.072	6.56	21.5	0.0157	0.0234	6.91	10.4
16	0.064	8.31	27.3	0.0124	0.0185	5.46	8.19
17	0.056	10.9	35.6	0.0095	0.0142	4.18	6.27
18	0.048	14.8	48.5	0.007	0.0104	3.07	4.61
19	0.04	21.3	69.8	0.0049	0.0072	2.13	3.2
20	0.036	26.3	86.1	0.0039	0.0059	1.73	2.59

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