

COPPER STRANDING CHART

To determine the size of a particular wire, Count the strands. Use a micrometer to measure one strand and then find the stranding configuration. The overall AWG size is found in the first column.

AWG SIZE	STRANDING	NOM. O. D. OF STRAND	APPROX O. D.	WT. LBS./1000 FT.
22	1/22	.025	.025	1.94
22	7/30	.0100	.030	2.12
22	19/32	.008	.031	2.28
22	26/36	.0050	.030	1.97
20	1/20	.032	.032	3.1
20	7/28	.0124	.038	3.49
20	10/30	.010	.035	3.025
20	19/32	.0080	.037	3.68
20	26/34	.0063	.036	3.12
20	41/36	.0050	.036	3.1
18	1/18	.0403	.0403	4.92
18	7/26	.0159	.048	5.36
18	16/30	.010	.047	4.84
18	19/30	.010	.049	5.75
18	41/34	.0063	.047	4.92
18	65/36	.0050	.047	4.91
16	1/16	.0508	.0508	7.81
16	7/24	.0201	.060	8.56
16	19/29	.0113	.058	7.35
16	26/30	.010	.059	7.87
16	65/34	.0063	.059	7.81
16	105/36	.0050	.059	7.95
14	1/14	.0641	.0641	12.4
14	7/22	.0253	.073	13.56
14	19/27	.0142	.073	11.49
14	41/30	.010	.073	12.4
14	105/34	.0063	.073	12.61
12	1/12	.0808	.0808	19.8
12	7/20	.0320	.096	21.69
12	19/25	.0179	.093	18.43
12	65/30	.010	.095	19.66
12	165/34	.0063	.095	19.82
10	1/10	.102	.102	31.4
10	7/18	.0385	.116	32
10	19/22	.0234	.117	32
10	37/26	.0159	.115	28.31
10	49/27	.0142	.116	29.89
10	105/30	.010	.116	31.76
10	259/34	.0063	.122	33

AWG SIZE	STRANDING	NOM. O. D. OF STRAND	APPROX O. D.	WT. LBS./1000 FT.
8	1/8	.1285	.1285	49
8	7/16	.0486	.146	51.1
8	19/20	.0295	.144	50
8	49/25	.0179	.147	47.53
8	133/29	.0113	.147	51.42
8	168/30	.010	.174	53.4
8	427/34	.0063	.158	53
8	665/36	.0050	.147	49.58
6	1/6	.162	.162	79.5
6	7/16	.0612	.184	80.95
6	19/19	.0372	.188	81.1
6	133/27	.0142	.184	81.14
6	259/30	.010	.184	78.35
6	665/34	.0063	.201	84
6	1050/36	.0050	.184	79.47
4	7/12	.0772	.232	102.3
4	19/16	.0469	.235	129
4	133/25	.0179	.232	129.01
4	259/27	.0143	.232	158.02
4	427/30	.010	.270	133.2
4	1064/34	.0063	.257	134
4	1666/36	.0050	.232	126.1
2	7/10	.0974	.292	205
2	19/16	.0591	.296	204.9
2	133/23	.0226	.292	205.62
2	259/26	.0159	.292	198.14
2	665/30	.010	.319	201.16
2	1666/34	.0063	.319	211
2	2624/36	.0050	.292	200.28
1	7/10	.1093	.328	258.2
1	19/14	.0664	.332	258.6
1	37/16	.0476	.333	258.8
1	133/22	.0253	.328	257.6
1	259/25	.0179	.328	251.2
1	817/30	.010	.328	247.1
1	2109/34	.0063	.328	253.29
1/0	7/8	.1228	.368	325.9
1/0	19/12	.0745	.373	325.6
1/0	37/16	.0534	.374	325.8

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1/0	133/21	.0285	.368	327.05
1/0	259/24	.0201	.368	316.75
1/0	1045/30	.010	.368	316.11
1/0	2660/34	.0063	.368	319.47
1/0	4214/36	.0050	.368	318.96
2/0	7/8	.1379	.414	411
2/0	19/12	.0837	.419	411
2/0	37/16	.0600	.420	411.3
2/0	133/20	.0320	.414	412.17
2/0	259/23	.0226	.414	400.41
2/0	1330/30	.010	.414	402.33
2/0	3325/34	.0063	.414	399.33
2/0	5292/36	.0050	.414	400.55
3/0	7/6	.1548	.464	517.9
3/0	19/10	.0940	.470	518.3
3/0	37/14	.0673	.471	517.4
3/0	61/16	.0524	.472	517.1
3/0	133/19	.0355	.533	527.7
3/0	259/22	.0253	.464	501.7
3/0	427/24	.0201	.464	522.2
3/0	1661/30	.010	.464	502.45
3/0	4256/34	.0063	.464	511.15
3/0	6713/36	.0050	.464	508.11
4/0	7/6	.1739	.522	653.6
4/0	19/10	.1055	.528	652.9
4/0	37/12	.0756	.529	652.9
4/0	61/16	.0589	.530	653.4
4/0	133/18	.0399	.599	666.6
4/0	259/21	.0285	.522	638.88
4/0	427/23	.0226	.522	660.01
4/0	2104/30	.010	.522	636.46
4/0	5320/34	.0063	.522	638.89
4/0	8512/36	.0050	.522	644.27
250	19/9	.1147	.574	771.7
250	37/12	.0822	.575	771.9
250	61/14	.0640	.576	771.4
250	91/16	.0524	.576	771.5
250	133/18	.0433	.650	785
250	259/20	.0311	.653	792.4

AWG SIZE	STRANDING	NOM. O. D. OF STRAND	APPROX O. D.	WT. LBS./ 1000 FT.
250	427/22	.0242	.653	794
250	2499/30	.010	.638	802
250	6384/34	.0063	.658	821
300	19/8	.1257	.629	926.9
300	37/11	.0090	.630	935.3
300	61/13	.0701	.631	925.5
300	91/15	.0574	.631	925.7
300	133/16	.0475	.713	944.7
300	259/20	.0340	.714	947.1
300	427/22	.0265	.716	953
300	2989/30	.010	.701	959
300	7581/34	.0063	.720	975
350	19/8	.1357	.679	1080
350	37/10	.0973	.681	1082
350	61/12	.0757	.681	1079
350	91/14	.0620	.682	1080
350	133/16	.0513	.770	1102
350	259/19	.0363	.773	1109
350	427/21	.0285	.772	1110
350	3458/30	.010	.757	1120
350	8806/34	.0063	.779	1132
400	19/7	.1451	.726	1235
400	37/10	.1040	.728	1236
400	61/12	.0810	.729	1237
400	91/14	.0663	.729	1235
400	133/16	.0548	.822	1257
400	258/18	.0403	.825	1265
400	427/20	.0306	.826	1271
400	3990/30	.010	.816	1292
400	10101/34	.0063	.837	1298
500	19/6	.1622	.811	1543
500	37/9	.1162	.813	1543
500	61/11	.0905	.815	1543
500	91/13	.0741	.815	1543
500	133/14	.0613	.920	1573
500	259/18	.0439	.922	1579
500	427/19	.0342	.923	1587
500	5054/30	.010	.924	1637
500	12691/34	.0063	.900	1631