



HSM Wire International, Inc

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Stainless Steel Wire Conversion Chart

UNS 30400, UNS 31600 (Types 304, 316)

Dia. (In)	Area (In ²)	Ft./Lb.
.0010	.00000079	371,022
.0011	.00000095	306,630
.0012	.00000113	257,645
.0013	.00000133	219,540
.0014	.00000154	189,297
.0015	.00000177	164,899
.0016	.00000201	144,930
.0017	.00000227	128,381
.0018	.00000254	114,513
.0019	.00000284	102,776
.0020	.00000314	92,756
.0021	.00000346	84,132
.0022	.00000380	76,657
.0023	.00000415	70,136
.0024	.00000452	64,414
.0025	.00000491	59,364
.0026	.00000531	54,885
.0027	.00000573	50,895
.0028	.00000616	47,324
.0029	.00000661	44,117
.0030	.00000707	41,225
.0031	.00000755	38,608
.0032	.00000804	36,233
.0033	.00000855	34,070
.0034	.00000908	32,095
.0035	.00000962	30,288
.0036	.00001018	28,628
.0037	.00001075	27,102
.0038	.00001134	25,694
.0039	.00001195	24,393
.0040	.00001257	23,189
.0041	.00001320	22,072
.0042	.00001385	21,033
.0043	.00001452	20,066

Dia. (In)	Area (In ²)	Ft./Lb.
.0044	.00001521	19,164
.0045	.00001590	18,322
.0046	.00001662	17,534
.0047	.00001735	16,796
.0048	.00001810	16,103
.0049	.00001886	15,453
.0050	.00001964	14,841
.0051	.00002042	14,265
.0052	.00002124	13,721
.0053	.00002206	13,208
.0054	.00002290	12,724
.0055	.00002376	12,265
.0056	.00002453	11,831
.0057	.00002552	11,420
.0058	.00002642	11,029
.0059	.00002734	10,658
.0060	.00002827	10,306
.0061	.00002922	9,971
.0062	.00003019	9,652
.0063	.00003117	9,348
.0064	.00003217	9,058
.0065	.00003318	8,782
.0066	.00003421	8,517
.0067	.00003526	8,265
.0068	.00003632	8,024
.0069	.00003739	7,793
.0070	.00003848	7,572
.0071	.00003959	7,360
.0072	.00004072	7,157
.0073	.00004185	6,962
.0074	.00004301	6,775
.0075	.00004418	6,596
.0076	.00004536	6,424
.0077	.00004657	6,258

Dia. (In)	Area (In ²)	Ft./Lb.
.0078	.00004779	6,098
.0079	.00004902	5,945
.0080	.00005027	5,797
.0081	.00005153	5,655
.0082	.00005281	5,518
.0083	.00005411	5,386
.0084	.00005542	5,258
.0085	.00005675	5,135
.0086	.00005890	5,017
.0087	.00005945	4,902
.0088	.00006082	4,791
.0089	.00006221	4,684
.0090	.00006362	4,581
.0091	.00006504	4,480
.0092	.00006648	4,384
.0093	.00006793	4,290
.0094	.00006940	4,199
.0095	.00007088	4,111
.0096	.00007238	4,026
.0097	.00007390	3,943
.0098	.00007543	3,863
.0099	.00007698	3,786
.0100	.00007854	3,710
.0101	.00008012	3,637
.0102	.00008171	3,566
.0103	.00008332	3,497
.0104	.00008495	3,430
.0105	.00008659	3,365
.0106	.00008825	3,302
.0107	.00008992	3,241
.0108	.00009161	3,181
.0109	.00009331	3,123
.0110	.00009503	3,086

Dia. (In)	Area (In ²)	Ft./Lb.
.0111	.00009677	3,011
.0112	.00009852	2,958
.0113	.00010029	2,906
.0114	.00010207	2,855
.0015	.00010387	2,805
.0116	.00010568	2,757
.0017	.00010751	2,710
.0018	.00010936	2,665
.0119	.00011122	2,620
.0120	.00011310	2,577
.0121	.00011499	2,534
.0122	.00011690	2,493
.0123	.00011882	2,452
.0124	.00012076	2,413
.0125	.00012272	2,375
.0126	.00012469	2,337
.0127	.00012668	2,300
.0128	.00012868	2,265
.0129	.00013070	2,230
.0130	.00013273	2,195
.0131	.00013478	2,162
.0132	.00013685	2,129
.0133	.00013893	2,097
.0134	.00014103	2,066
.0135	.00014314	2,086
.0136	.00014527	2,006
.0137	.00014741	1,977
.0138	.00014957	1,948
.0139	.00015197	1,920
.0140	.00015394	1,892
.0141	.00015615	1,866
.0142	.00015837	1,840
.0143	.00016061	1,814
.0144	.00016061	1,789

Round wire density – 0.286 pounds per cubic inch. Read further for multiplication factors of other materials. Boldface indicates AWG sizes.

Dia. (In)	Area (In ²)	Ft./Lb.
.0145	.00016513	1,765
.0146	.00016742	1,741
.0147	.00016972	1,717
.0148	.00017203	1,694
.0149	.00017437	1,671
.0150	.00017671	1,649
.0151	.00017908	1,627
.0152	.00018146	1,606
.0153	.00018385	1,585
.0154	.00018627	1,564
.0155	.00018870	1,544
.0156	.00019113	1,525
.0157	.00019359	1,505
.0158	.00019607	1,486
.0159	.00019856	1,468
.0160	.00020106	1,449
.0161	.00020358	1,431
.0162	.00020612	1,414
.0163	.00020867	1,396
.0164	.00021124	1,379
.0165	.00021382	1,363
.0166	.00021642	1,346
.0167	.00021904	1,330
.0168	.00022167	1,315
.0169	.00022432	1,299
.0170	.00022698	1,284
.0171	.00022966	1,269
.0172	.00023235	1,254
.0173	.00023506	1,240
.0174	.00023779	1,225
.0175	.00024053	1,212
.0176	.00024328	1,198
.0177	.00024606	1,184
.0178	.00024885	1,171

Dia. (In)	Area (In ²)	Ft./Lb.
.0179	.00025165	1,158
.0180	.00025447	1,145
.0181	.00025730	1,133
.0182	.00026016	1,120
.0183	.00026302	1,108
.0184	.00026590	1,096
.0185	.00026880	1,084
.0186	.00027172	1,072
.0187	.00027465	1,061
.0188	.00027759	1,050
.0189	.00028055	1,039
.0190	.00028353	1,028
.0191	.00028652	1,017
.0192	.00028953	1,006
.0193	.00029255	996
.0194	.00029559	986
.0195	.00029885	976
.0196	.00030172	966
.0197	.00030481	956
.0198	.00030791	946
.0199	.00031103	937
.0200	.00031416	928
.0201	.00031731	918
.0202	.00032047	909
.0203	.00032365	900
.0204	.00032685	892
.0205	.00033006	883
.0206	.00033329	874
.0207	.00033979	866
.0208	.00034307	858
.0209	.00034636	849
.0210	.00034967	841
.0211	.00035299	833
.0212	.00035633	826

Round wire density – 0.286 pounds per cubic inch. Read further for multiplication factors of other materials. Boldface indicates AWG sizes.

Dia. (In)	Area (In ²)	Ft./Lb.
.0213	.00035633	818
.0214	.00035968	810
.0215	.00036305	803
.0216	.00036644	795
.0217	.00036984	788
.0218	.00037325	781
.0219	.00037668	774
.0220	.00038013	767
.0221	.00038360	760
.0222	.00038708	753
.0223	.00039057	746
.0224	.00039408	739
.0225	.00039761	733
.0226	.00040115	726
.0227	.00040471	720
.0228	.00040828	714
.0229	.00041187	708
.0230	.00041548	701
.0231	.00041910	695
.0232	.00042273	989
.0233	.00042638	683
.0234	.00043005	678
.0235	.00043374	672
.0240	.00045239	644
.0245	.00047144	618
.0250	.00049087	594
.0253	.00050273	580
.0255	.00051071	571
.0260	.00053093	549
.0265	.00055155	528
.0270	.00057255	509
.0275	.00059396	491
.0280	.00061575	473
.0285	.00063794	457

Dia. (In)	Area (In ²)	Ft./Lb.
.0290	.00066052	441
.0295	.00068349	426
.0300	.00070688	412
.0305	.00073062	399
.0310	.00075477	386
.0315	.00077931	374
.0320	.00080425	362
.0325	.00082958	351
.0330	.00085530	341
.0335	.00088141	331
.0340	.00090790	321
.0350	.00096211	303
.0359	.00101223	288
.0360	.00101788	286
.0370	.00107521	271
.0380	.00113411	257
.0390	.00119459	244
.0400	.00125664	232
.0403	.00127556	228
.0410	.00132025	221
.0420	.00138544	210
.0430	.00145220	201
.0440	.00152053	192
.0450	.00159043	183
.0453	.00161171	181
.0460	.00166190	175
.0470	.00173494	168
.0480	.00180956	161
.0490	.00188574	155
.0500	.00196350	148
.0508	.00202683	144
.0510	.00204282	143
.0520	.00212372	137
.0530	.00220618	132

Dia. (In)	Area (In ²)	Ft./Lb.
.0540	.00229022	127
.0550	.00237583	123
.0560	.00246301	118
.0570	.00255176	114
.0580	.00264208	110
.0590	.00273397	107
.0600	.00282743	103
.0610	.00292247	100
.0620	.00301907	97
.0625	.00306796	95
.0630	.00311725	93
.0640	.00321699	91
.0650	.00331830	88
.0660	.00342119	85
.0670	.00352565	83
.0680	.00363168	80
.0690	.00373928	78
.0700	.00384845	76
.0710	.00395919	74
.0720	.00407150	72
.0730	.00418539	70
.0740	.00430084	68
.0750	.00441786	66
.0760	.00453646	64
.0770	.00465663	63
.0780	.00477839	61
.0790	.00490167	59
.0800	.00502650	58
.0808	.00512758	57
.0900	.00636170	46
.0910	.00650388	45
.0950	.00708820	41
.1000	.00785398	37

Dia. (In)	Area (In ²)	Ft./Lb.
.1050		34
.1100		31
.1150		28
.1200		26
.1250		24
.1300		22
.1350		20
.1400		19
.1450		17
.1500		16
.1550		15
.1600		14.5
.1650		13.5
.1700		13
.1750		12
.1800		11.5
.1850		11
.1900		10.3
.1950		9.8
.2000		9.3
.2050		8.9
.2100		8.4
.2150		8
.2200		7.7
.2250		7.4
.2300		7
.2350		6.7
.2400		6.5
.2450		6.2
.2500		6
.2550		5.7
.2600		5.5
.2650		5.3

Round wire density – 0.286 pounds per cubic inch. Read further for multiplication factors of other materials. Boldface indicates AWG sizes.

Dia. (In)	Area (In ²)	Ft./Lb.
.2700		5.1
.2750		4.9
.2800		4.75
.2850		4.6
.2900		4.4
.2950		4.3
.3000		4.1
.3050		4
.3100		3.9
.3150		3.8
.3200		3.6
.3250		3.5
.3300		3.4
.3350		3.3
.3400		3.2
.3450		3.1
.3500		3
.3550		2.95
.3600		2.87
.3650		2.79
.3700		2.72
.3750		2.65
.3800		2.58
.3850		2.51
.3900		2.45
.3950		2.39
.4000		2.3
.4050		2.27
.4100		2.22
.4150		2.16
.4200		2.11
.4250		2.06
.4300		2.01

Dia. (In)	Area (In ²)	Ft./Lb.
.4350		1.97
.4400		1.92
.4450		1.88
.4500		1.84
.4550		1.80
.4600		1.76
.4650		1.72
.4700		1.69
.4750		1.65
.4800		1.6
.4850		1.58
.4900		1.55
.4950		1.52
.5000		1.49