



# HSM Wire International, Inc

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## Stainless Steel Wire Conversion Chart ft/lb

UNS 30400, UNS 31600 (Types 304, 316)

| Dia. (In)    | Area (In <sup>2</sup> ) | 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       |
| <b>.0020</b> | <b>.00000314</b>        | <b>92,756</b> |
| .0021        | .00000346               | 84,132        |
| <b>.0022</b> | <b>.00000380</b>        | <b>76,657</b> |
| .0023        | .00000415               | 70,136        |
| .0024        | .00000452               | 64,414        |
| <b>.0025</b> | <b>.00000491</b>        | <b>59,364</b> |
| .0026        | .00000531               | 54,885        |
| .0027        | .00000573               | 50,895        |
| <b>.0028</b> | <b>.00000616</b>        | <b>47,324</b> |
| .0029        | .00000661               | 44,117        |
| .0030        | .00000707               | 41,225        |
| <b>.0031</b> | <b>.00000755</b>        | <b>38,608</b> |
| .0032        | .00000804               | 36,233        |
| .0033        | .00000855               | 34,070        |
| .0034        | .00000908               | 32,095        |
| <b>.0035</b> | <b>.00000962</b>        | <b>30,288</b> |
| .0036        | .00001018               | 28,628        |
| .0037        | .00001075               | 27,102        |
| .0038        | .00001134               | 25,694        |
| .0039        | .00001195               | 24,393        |
| <b>.0040</b> | <b>.00001257</b>        | <b>23,189</b> |
| .0041        | .00001320               | 22,072        |
| .0042        | .00001385               | 21,033        |
| .0043        | .00001452               | 20,066        |

| Dia. (In)    | Area (In <sup>2</sup> ) | Ft./Lb.       |
|--------------|-------------------------|---------------|
| .0044        | .00001521               | 19,164        |
| <b>.0045</b> | <b>.00001590</b>        | <b>18,322</b> |
| .0046        | .00001662               | 17,534        |
| .0047        | .00001735               | 16,796        |
| .0048        | .00001810               | 16,103        |
| .0049        | .00001886               | 15,453        |
| <b>.0050</b> | <b>.00001964</b>        | <b>14,841</b> |
| .0051        | .00002042               | 14,265        |
| .0052        | .00002124               | 13,721        |
| .0053        | .00002206               | 13,208        |
| .0054        | .00002290               | 12,724        |
| .0055        | .00002376               | 12,265        |
| <b>.0056</b> | <b>.00002453</b>        | <b>11,831</b> |
| .0057        | .00002552               | 11,420        |
| .0058        | .00002642               | 11,029        |
| .0059        | .00002734               | 10,658        |
| .0060        | .00002827               | 10,306        |
| .0061        | .00002922               | 9,971         |
| .0062        | .00003019               | 9,652         |
| <b>.0063</b> | <b>.00003117</b>        | <b>9,348</b>  |
| .0064        | .00003217               | 9,058         |
| .0065        | .00003318               | 8,782         |
| .0066        | .00003421               | 8,517         |
| .0067        | .00003526               | 8,265         |
| .0068        | .00003632               | 8,024         |
| .0069        | .00003739               | 7,793         |
| <b>.0070</b> | <b>.00003848</b>        | <b>7,572</b>  |
| .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 <sup>2</sup> ) | Ft./Lb.      |
|--------------|-------------------------|--------------|
| .0078        | .00004779               | 6,098        |
| <b>.0079</b> | <b>.00004902</b>        | <b>5,945</b> |
| .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        |
| <b>.0089</b> | <b>.00006221</b>        | <b>4,684</b> |
| .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        |
| <b>.0100</b> | <b>.00007854</b>        | <b>3,710</b> |
| .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 <sup>2</sup> ) | Ft./Lb.      |
|--------------|-------------------------|--------------|
| .0111        | .00009677               | 3,011        |
| .0112        | .00009852               | 2,958        |
| <b>.0113</b> | <b>.00010029</b>        | <b>2,906</b> |
| .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        |
| <b>.0126</b> | <b>.00012469</b>        | <b>2,337</b> |
| .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        |
| <b>.0142</b> | <b>.00015837</b>        | <b>1,840</b> |
| .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 <sup>2</sup> ) | 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        |
| <b>.0159</b> | <b>.00019856</b>        | <b>1,468</b> |
| .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 <sup>2</sup> ) | Ft./Lb.      |
|--------------|-------------------------|--------------|
| <b>.0179</b> | <b>.00025165</b>        | <b>1,158</b> |
| .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          |
| <b>.0201</b> | <b>.00031731</b>        | <b>918</b>   |
| .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 <sup>2</sup> ) | 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        |
| <b>.0226</b> | <b>.00040115</b>        | <b>726</b> |
| .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        |
| <b>.0253</b> | <b>.00050273</b>        | <b>580</b> |
| .0255        | .00051071               | 571        |
| .0260        | .00053093               | 549        |
| .0265        | .00055155               | 528        |
| .0270        | .00057255               | 509        |
| .0275        | .00059396               | 491        |
| .0280        | .00061575               | 473        |
| <b>.0285</b> | <b>.00063794</b>        | <b>457</b> |

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

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

| Dia. (In)    | Area (In <sup>2</sup> ) | Ft./Lb.     |
|--------------|-------------------------|-------------|
| .1050        |                         | 34          |
| .1100        |                         | 31          |
| <b>.1150</b> |                         | <b>28</b>   |
| .1200        |                         | 26          |
| .1250        |                         | 24          |
| <b>.1300</b> |                         | <b>22</b>   |
| .1350        |                         | 20          |
| .1400        |                         | 19          |
| <b>.1450</b> |                         | <b>17</b>   |
| .1500        |                         | 16          |
| .1550        |                         | 15          |
| <b>.1600</b> |                         | <b>14.5</b> |
| .1650        |                         | 13.5        |
| .1700        |                         | 13          |
| .1750        |                         | 12          |
| <b>.1800</b> | .                       | <b>11.5</b> |
| .1850        |                         | 11          |
| .1900        |                         | 10.3        |
| .1950        |                         | 9.8         |
| .2000        |                         | 9.3         |
| <b>.2050</b> |                         | <b>8.9</b>  |
| .2100        |                         | 8.4         |
| .2150        |                         | 8           |
| .2200        |                         | 7.7         |
| .2250        |                         | 7.4         |
| <b>.2300</b> |                         | <b>7</b>    |
| .2350        |                         | 6.7         |
| .2400        |                         | 6.5         |
| .2450        |                         | 6.2         |
| .2500        |                         | 6           |
| .2550        |                         | 5.7         |
| <b>.2600</b> |                         | <b>5.5</b>  |
| .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 <sup>2</sup> ) | Ft./Lb.     |
|--------------|-------------------------|-------------|
| .2700        |                         | 5.1         |
| .2750        |                         | 4.9         |
| .2800        |                         | 4.75        |
| .2850        |                         | 4.6         |
| <b>.2900</b> |                         | <b>4.4</b>  |
| .2950        |                         | 4.3         |
| .3000        |                         | 4.1         |
| .3050        |                         | 4           |
| .3100        |                         | 3.9         |
| .3150        |                         | 3.8         |
| .3200        |                         | 3.6         |
| <b>.3250</b> |                         | <b>3.5</b>  |
| .3300        |                         | 3.4         |
| .3350        |                         | 3.3         |
| .3400        |                         | 3.2         |
| .3450        |                         | 3.1         |
| .3500        |                         | 3           |
| .3550        |                         | 2.95        |
| .3600        |                         | 2.87        |
| <b>.3650</b> |                         | <b>2.79</b> |
| .3700        |                         | 2.72        |
| .3750        |                         | 2.65        |
| .3800        |                         | 2.58        |
| .3850        |                         | 2.51        |
| .3900        |                         | 2.45        |
| .3950        |                         | 2.39        |
| .4000        |                         | 2.3         |
| .4050        |                         | 2.27        |
| <b>.4100</b> |                         | <b>2.22</b> |
| .4150        |                         | 2.16        |
| .4200        |                         | 2.11        |
| .4250        |                         | 2.06        |
| .4300        |                         | 2.01        |

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