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Cable Services

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- New product development
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Wired for success
Copper Conductors - Bare and Tinned

Bare Copper Wire

Bare Copper Wire is an uninsulated and unshielded conductor. Bare Copper is the most common type of copper wire generally used for grounding in commercial, industrial and residential applications, it is also known as grounding wire. Bare Copper Wire can be found in everything from overhead electrical systems to components in large cables, comprised of multiple conductors.

Tinned Copper Wire

Tin-Dipped or Tin-Plated Copper Wire is copper conductor coated with a thin layer of tin to protect the copper from corrosion, that would decrease the wire's performance in humid or rainy climates, high-heat environment and in certain types of soil. Tinned Copper Wire can last much longer than Bare Copper Wire. Tinned Copper Wire is used in various types of cables, industrial machines, heaters, high-temperature instruments, in ground electrical systems and as Bus Bar Wire to distribute power from a centralized bus bar to outlying equipment.

Wire Constructions available online

We manufacture a wide variety of constructions of Copper Wire, many of them available online. Didn't find what you were looking for? Call or email us for special request!

Solid Wire (Single End) - one strand of wire, drawn to gauge from a single solid copper rod. Bare Copper and Tin Plated Copper wire available online.

Wire Braid - comprised of several carriers wound together, each carrier might consist of several parallel or bunched single end wires. Tubular Braids fabricated from Tin Plated Copper and Nickel Plated Copper available online.
Flat Braids fabricated from Tin Plated Copper available online.
Bare Copper Wire

Application:
Bare Copper Wire is an uninsulated and unshielded conductor. Bare Copper is the most common type of copper wire generally used for grounding in commercial, industrial and residential applications, it is also known as the grounding wire. Bare Copper Wire can be found in everything from overhead electrical systems to components in large cables, comprised of multiple conductors.

Product Details:
- 6-28 AWG available online
- Solid soft drawn and annealed Bare Copper Wire
- ASTM B-3 compliant

Packaging:
- 100', 250', 500', 1000' spools available online
- 1 lbs, 5 lbs, 10 lbs, 50 lbs spools available online
- Cut to length - sold by the foot wire available online
- Special package available upon request

Special Services:
- Cutting wire to length
- Re-spooling
- Bobbin winding
- Custom labeling
- Wire twisting
- Cable and harness over braiding and shielding
- Engineering and technical support
- Stocking program
- Certificate of compliance

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### Solid Bare Copper Wire

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Product Description</th>
<th>AWG</th>
<th>Coating</th>
<th>Nominal Diameter Inches</th>
<th>Area, circular mils</th>
<th>Approximate Weight, Lbs/1000 Ft</th>
<th>Break Strength, lbs.</th>
<th>Elongation in 10&quot;, % minimum</th>
<th>Nominal Resistance Ohms per 1,000 Ft @ 20° C</th>
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<tbody>
<tr>
<td>SBC-2</td>
<td>2 awg, Solid Bare Copper Wire</td>
<td>2</td>
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<td>0.2576</td>
<td>66,360</td>
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<td>1928.0</td>
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<td>4</td>
<td>Bare</td>
<td>0.2043</td>
<td>41,740</td>
<td>126.34</td>
<td>1213.0</td>
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<td>SBC-6</td>
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<td>6</td>
<td>Bare</td>
<td>0.1620</td>
<td>26,240</td>
<td>79.44</td>
<td>762.6</td>
<td>30</td>
<td>0.40</td>
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<tr>
<td>SBC-8</td>
<td>8 awg, Solid Bare Copper Wire</td>
<td>8</td>
<td>Bare</td>
<td>0.1285</td>
<td>16,510</td>
<td>49.98</td>
<td>479.8</td>
<td>30</td>
<td>0.63</td>
</tr>
<tr>
<td>SBC-10</td>
<td>10 awg, Solid Bare Copper Wire</td>
<td>10</td>
<td>Bare</td>
<td>0.1019</td>
<td>10,380</td>
<td>31.43</td>
<td>314.0</td>
<td>25</td>
<td>1.00</td>
</tr>
<tr>
<td>SBC-12</td>
<td>12 awg, Solid Bare Copper Wire</td>
<td>12</td>
<td>Bare</td>
<td>0.0808</td>
<td>6,530</td>
<td>19.77</td>
<td>180.0</td>
<td>25</td>
<td>1.59</td>
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<td>SBC-14</td>
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<td>Bare</td>
<td>0.0641</td>
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<td>12.43</td>
<td>113.0</td>
<td>25</td>
<td>2.53</td>
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<tr>
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<td>16 awg, Solid Bare Copper Wire</td>
<td>16</td>
<td>Bare</td>
<td>0.0508</td>
<td>2,580</td>
<td>7.82</td>
<td>71.0</td>
<td>25</td>
<td>4.02</td>
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<td>SBC-18</td>
<td>18 awg, Solid Bare Copper Wire</td>
<td>18</td>
<td>Bare</td>
<td>0.0403</td>
<td>1,620</td>
<td>4.92</td>
<td>45.0</td>
<td>25</td>
<td>6.39</td>
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<tr>
<td>Part Number</td>
<td>Product Description</td>
<td>AWG</td>
<td>Coating</td>
<td>Nominal Diameter Inches</td>
<td>Area, circular mils</td>
<td>Approximate Weight, Lbs/1000 Ft</td>
<td>Break Strength, lbs.</td>
<td>Elongation in 10&quot;, % minimum</td>
<td>Nominal Resistance Ohms per 1,000 Ft @ 20° C</td>
</tr>
<tr>
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</tr>
<tr>
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<td>Bare</td>
<td>0.0320</td>
<td>1,020</td>
<td>3.09</td>
<td>28.0</td>
<td>25</td>
<td>10.15</td>
</tr>
<tr>
<td>SBC-22</td>
<td>22 awg, Solid Bare Copper Wire</td>
<td>22</td>
<td>Bare</td>
<td>0.0254</td>
<td>640</td>
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<td>18.0</td>
<td>25</td>
<td>16.14</td>
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<tr>
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<td>Bare</td>
<td>0.0201</td>
<td>404</td>
<td>1.22</td>
<td>11.0</td>
<td>20</td>
<td>25.67</td>
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<tr>
<td>SBC-26</td>
<td>26 awg, Solid Bare Copper Wire</td>
<td>26</td>
<td>Bare</td>
<td>0.0159</td>
<td>253</td>
<td>0.77</td>
<td>7.0</td>
<td>20</td>
<td>40.81</td>
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<tr>
<td>SBC-28</td>
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<td>28</td>
<td>Bare</td>
<td>0.0126</td>
<td>159</td>
<td>0.48</td>
<td>4.4</td>
<td>20</td>
<td>64.90</td>
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<td>SBC-30</td>
<td>30 awg, Solid Bare Copper Wire</td>
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<td>Bare</td>
<td>0.0100</td>
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<td>0.30</td>
<td>2.9</td>
<td>15</td>
<td>103.20</td>
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<td>0.0080</td>
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<td>1.7</td>
<td>15</td>
<td>164.10</td>
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<tr>
<td>SBC-36</td>
<td>36 awg, Solid Bare Copper Wire</td>
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<td>25</td>
<td>0.08</td>
<td>0.69</td>
<td>15</td>
<td>414.80</td>
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</tbody>
</table>
Tinned Copper Wire

Application:

Tin Dipped or Tin Plated Copper Wire is copper conductor coated with a thin layer of tin to protect the copper from corrosion, that would decrease the wire's performance in humid or rainy climates, high-heat environment and in certain types of soil. Tinned Copper Wire can last much longer than Bare Copper Wire. Tinned Copper Wire is used in various types of cables, industrial machines, heaters, high-temperature instruments, in ground electrical systems and as Bus Bar Wire to distribute power from a centralized bus bar to outlying equipment.

Product Details:

- 6-28 AWG available online
- Solid soft drawn and annealed Tinned Copper Wire
- ASTM B-33 compliant

Packaging:

- 100', 250', 500', 1000' spools available online
- 1 lbs, 5 lbs, 10 lbs, 50 lbs spools available online
- Cut to length - sold by the foot wire available online
- Special package available upon request

Special Services:

- Cutting wire to length
- Re-spooling
- Bobbin winding
- Custom labeling
- Wire twisting
- Cable and harness over braiding and shielding
- Engineering and technical support
- Stocking program
- Certificate of compliance

ISO 9001:2015
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RoHS compliant

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United States
1-607-674-2030
## Solid Tinned Copper Wire

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Product Description</th>
<th>AWG</th>
<th>Coating</th>
<th>Nominal Diameter Inches</th>
<th>Area, circular mils</th>
<th>Approximate Weight, Lbs/1000 Ft</th>
<th>Break Strength, lbs.</th>
<th>Elongation in 10&quot;, % minimum</th>
<th>Nominal Resistance Ohms per 1,000 Ft @ 20° C</th>
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</thead>
<tbody>
<tr>
<td>STC-4</td>
<td>4 awg, Solid Tinned Copper Wire</td>
<td>4</td>
<td>Tin Plated</td>
<td>0.2043</td>
<td>41,740</td>
<td>126.34</td>
<td>1213.0</td>
<td>25</td>
<td>0.26</td>
</tr>
<tr>
<td>STC-6</td>
<td>6 awg, Solid Tinned Copper Wire</td>
<td>6</td>
<td>Tin Plated</td>
<td>0.1620</td>
<td>26,240</td>
<td>79.44</td>
<td>721.0</td>
<td>25</td>
<td>0.41</td>
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<tr>
<td>STC-8</td>
<td>8 awg, Solid Tinned Copper Wire</td>
<td>8</td>
<td>Tin Plated</td>
<td>0.1285</td>
<td>16,510</td>
<td>49.98</td>
<td>454.0</td>
<td>25</td>
<td>0.65</td>
</tr>
<tr>
<td>STC-10</td>
<td>10 awg, Solid Tinned Copper Wire</td>
<td>10</td>
<td>Tin Plated</td>
<td>0.1019</td>
<td>10,380</td>
<td>31.43</td>
<td>285.0</td>
<td>20</td>
<td>1.04</td>
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<td>STC-12</td>
<td>12 awg, Solid Tinned Copper Wire</td>
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<td>Tin Plated</td>
<td>0.0808</td>
<td>6,530</td>
<td>19.77</td>
<td>180.0</td>
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<td>0.0641</td>
<td>4,110</td>
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<td>113.0</td>
<td>20</td>
<td>2.63</td>
</tr>
<tr>
<td>STC-16</td>
<td>16 awg, Solid Tinned Copper Wire</td>
<td>16</td>
<td>Tin Plated</td>
<td>0.0508</td>
<td>2,580</td>
<td>7.82</td>
<td>71.0</td>
<td>20</td>
<td>4.18</td>
</tr>
<tr>
<td>STC-18</td>
<td>18 awg, Solid Tinned Copper Wire</td>
<td>18</td>
<td>Tin Plated</td>
<td>0.0403</td>
<td>1,620</td>
<td>4.92</td>
<td>45.0</td>
<td>20</td>
<td>6.65</td>
</tr>
<tr>
<td>STC-20</td>
<td>20 awg, Solid Tinned Copper Wire</td>
<td>20</td>
<td>Tin Plated</td>
<td>0.0320</td>
<td>1,020</td>
<td>3.09</td>
<td>28.0</td>
<td>20</td>
<td>10.58</td>
</tr>
</tbody>
</table>

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## Solid Tinned Copper Wire

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Product Description</th>
<th>AWG</th>
<th>Coating</th>
<th>Nominal Diameter Inches</th>
<th>Area, circular mils</th>
<th>Approximate Weight, Lbs/1000 Ft</th>
<th>Break Strength, lbs.</th>
<th>Elongation in 10°, % minimum</th>
<th>Nominal Resistance Ohms per 1,000 Ft @ 20° C</th>
</tr>
</thead>
<tbody>
<tr>
<td>STC-22</td>
<td>22 awg, Solid Tinned Copper Wire</td>
<td>22</td>
<td>Tin Plated</td>
<td>0.0254</td>
<td>640</td>
<td>1.95</td>
<td>18.0</td>
<td>20</td>
<td>16.82</td>
</tr>
<tr>
<td>STC-24</td>
<td>24 awg, Solid Tinned Copper Wire</td>
<td>24</td>
<td>Tin Plated</td>
<td>0.0201</td>
<td>404</td>
<td>1.22</td>
<td>11.0</td>
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<tr>
<td>STC-26</td>
<td>26 awg, Solid Tinned Copper Wire</td>
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<td>Tin Plated</td>
<td>0.0159</td>
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<td>159</td>
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<td>4.40</td>
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<td>69.13</td>
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<td>100</td>
<td>0.30</td>
<td>2.90</td>
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<td>STC-32</td>
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<td>Tin Plated</td>
<td>0.0080</td>
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<td>40</td>
<td>0.12</td>
<td>1.10</td>
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<td>281.10</td>
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<tr>
<td>STC-36</td>
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<td>0.08</td>
<td>.69</td>
<td>10</td>
<td>447.10</td>
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</tbody>
</table>
Tinned Copper Tubular Braids

Application:

Tubular Braid has round configuration, it is braided with a specific number of ends (wires) to the specified nominal inside diameter (ID). Tubular Braids create a flexible construction and come in an assortment of materials, like bare copper, tinned copper, stainless steel, silver-plated copper, nickel-plated copper. Tinned Copper Tubular Braids provide good conductivity, resistance to corrosion, and are easy to solder. In general Tubular Braids are used in cabling applications for shielding/mechanical protection and as a protection against EMI (Electro-Magnetic Interference).

Product Details:

- Variety of constructions made with 30 AWG and 36 AWG wire available online
- Solid soft drawn and annealed Tinned Copper Wire
- Individual ends are ASTM B-33 compliant

Packaging:

- 10' coils and 50', 100', 250', 500', 1000' spools available online for most sizes.
- Cut to length - sold by the foot
- Special package available upon request

Special Services:

- Cutting wire to length
- Re-spooling
- Bobbin winding
- Custom labeling
- Wire twisting
- Cable and harness over braiding and shielding
- Engineering and technical support
- Stocking program
- Certificate of compliance

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## Tinned Copper Tubular Braid

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Product Description</th>
<th>Construction</th>
<th>AWG of Individual Ends</th>
<th>No. of Carriers</th>
<th>No. of Wires per Carrier</th>
<th>Total No. of Wires</th>
<th>Approx. AWG Equivalent</th>
<th>Nom. Circular Mills</th>
<th>Approximate Weight, Lbs/1000 Ft</th>
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</thead>
<tbody>
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<td>36</td>
<td>24</td>
<td>5</td>
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<td>171</td>
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<td>9,600</td>
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<td>172</td>
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<td>36</td>
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<td>10</td>
<td>9,600</td>
<td>40</td>
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<td>174</td>
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<td>48</td>
<td>11</td>
<td>528</td>
<td>9</td>
<td>13,200</td>
<td>53</td>
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<tr>
<td>176</td>
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<td>48</td>
<td>18</td>
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<td>21,600</td>
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<td>178</td>
<td>Tinned Copper Tubular Braid, 1&quot; Diameter</td>
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<td>30</td>
<td>48</td>
<td>8</td>
<td>384</td>
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<td>38,600</td>
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<td>182</td>
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<td>48</td>
<td>12</td>
<td>576</td>
<td>3</td>
<td>57,890</td>
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<td>Tinned Copper Tubular Braid, 2&quot; Diameter</td>
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<td>48</td>
<td>14</td>
<td>672</td>
<td>2</td>
<td>67,540</td>
<td>230</td>
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</table>
Tinned Copper Flat Braids

Application:

Flat Braid is braided with a specific number of ends (wires) to the specified width and thickness, initially it has round configuration, then it is flattened by a pressure roller. Flat Braids create a flexible construction and come in assortment of materials, like bare copper, tinned copper, stainless steel, silver-plated copper, nickel-plated copper. Tinned Copper Flat Braids provide good conductivity, resistance to corrosion, and are easy to solder. In general Flat Braids are used for flexible connections, electrical leads and grounding (ground strap).

Product Details:

- Variety of constructions made with 30 AWG and 36 AWG wire available online
- Solid soft drawn and annealed Tinned Copper Wire
- Individual ends are ASTM B-33 compliant

Packaging:

- 10' coils and 50', 100', 250', 500', 1000' spools available online for most sizes.
- Cut to length - sold by the foot
- Special package available upon request

Special Services:

- Cutting wire to length
- Re-spooling
- Bobbin winding
- Custom labeling
- Wire twisting
- Cable and harness over braiding and shielding
- Engineering and technical support
- Stocking program
- Certificate of compliance
## Tinned Copper Flat Braid

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Product Description</th>
<th>Nominal Flat Width</th>
<th>Construction</th>
<th>Nominal Thickness</th>
<th>AWG of Individual Ends</th>
<th>No. of Carriers</th>
<th>No. of Wires per Carrier</th>
<th>Total No. of Wires</th>
<th>Approx. AWG Equivalent</th>
<th>Nom. Circular Mills</th>
<th>Approximate Weight, Lbs/1000 Ft</th>
</tr>
</thead>
<tbody>
<tr>
<td>229</td>
<td>Tinned Copper Flat Braid, 1/8” Width</td>
<td>1/8”</td>
<td>24x3/36</td>
<td>.020”</td>
<td>36</td>
<td>24</td>
<td>3</td>
<td>72</td>
<td>18</td>
<td>1,800</td>
<td>9</td>
</tr>
<tr>
<td>231</td>
<td>Tinned Copper Flat Braid, 1/4” Width</td>
<td>1/4”</td>
<td>24x7/36</td>
<td>.030”</td>
<td>36</td>
<td>24</td>
<td>7</td>
<td>168</td>
<td>14</td>
<td>4,200</td>
<td>17</td>
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<tr>
<td>232</td>
<td>Tinned Copper Flat Braid, 3/8” Width</td>
<td>3/8”</td>
<td>48x6/36</td>
<td>.030”</td>
<td>36</td>
<td>48</td>
<td>6</td>
<td>288</td>
<td>12</td>
<td>7,200</td>
<td>28</td>
</tr>
<tr>
<td>233</td>
<td>Tinned Copper Flat Braid, 5/8” Width</td>
<td>5/8”</td>
<td>48x8/36</td>
<td>.030”</td>
<td>36</td>
<td>48</td>
<td>8</td>
<td>384</td>
<td>10</td>
<td>9,600</td>
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<tr>
<td>233/2</td>
<td>Tinned Copper Flat Braid, 1/2” Width</td>
<td>1/2”</td>
<td>48x8/36</td>
<td>.030”</td>
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<td>384</td>
<td>10</td>
<td>9,600</td>
<td>39</td>
</tr>
<tr>
<td>234</td>
<td>Tinned Copper Flat Braid, 3/4” Width</td>
<td>3/4”</td>
<td>48x18/36</td>
<td>.040”</td>
<td>36</td>
<td>48</td>
<td>18</td>
<td>864</td>
<td>7</td>
<td>20,800</td>
<td>79</td>
</tr>
<tr>
<td>235</td>
<td>Tinned Copper Flat Braid, 1” Width</td>
<td>1”</td>
<td>48x18/36</td>
<td>.045”</td>
<td>36</td>
<td>48</td>
<td>18</td>
<td>864</td>
<td>7</td>
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<tr>
<td>264</td>
<td>Tinned Copper Flat Braid, 1” Width</td>
<td>1”</td>
<td>48x8/30</td>
<td>.070”</td>
<td>30</td>
<td>48</td>
<td>8</td>
<td>384</td>
<td>4</td>
<td>38,400</td>
<td>137</td>
</tr>
</tbody>
</table>
Stainless Steel Tubular Braids

Application:

Tubular Braid has round configuration, it is braided with a specific number of ends (wires) to the specified nominal inside diameter (ID). Tubular Braids create a flexible construction and come in an assortment of materials, like bare copper, tinned copper, stainless steel, silver-plated copper, nickel-plated copper. Stainless Steel Tubular Braids provide good performance at extreme temperature, they are durable and flexible. In general Tubular Braids are used in cabling applications for shielding/mechanical protection and as a protection against EMI (Electro-Magnetic Interference).

Product Details:

- Variety of constructions made with 30 AWG and 36 AWG wire available online
- Type 304 (non-magnetic) stainless steel wire braids available online.
- Type 430 (magnetic), Type 316 and Type 321 stainless steel wire braids available upon request.

Packaging:

- 10' coils and 50', 100', 250', 500', 1000' spools available online for most sizes.
- Cut to length - sold by the foot
- Special package available upon request

Special Services:

- Cutting wire to length
- Re-spooling
- Bobbin winding
- Custom labeling
- Wire twisting
- Cable and harness over braiding and shielding
- Engineering and technical support
- Stocking program
- Certificate of compliance

ISO 9001:2015
MADE IN USA
RoHS compliant
## Stainless Steel Tubular Braid

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Product Description</th>
<th>Nominal I.D.</th>
<th>Construction</th>
<th>AWG of Individual Ends</th>
<th>No. of Carriers</th>
<th>No. of Wires per Carrier</th>
<th>Total No. of Wires</th>
<th>Approx. AWG Equivalent</th>
<th>Nom. Circular Mills</th>
<th>Approximate Weight, Lbs/1000 Ft</th>
</tr>
</thead>
<tbody>
<tr>
<td>166SS</td>
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<td>1/8&quot;</td>
<td>24x5/36</td>
<td>36</td>
<td>24</td>
<td>5</td>
<td>120</td>
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<td>24</td>
<td>16</td>
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<td>Stainless Steel Tubular Braid, 3/8&quot; Diameter</td>
<td>3/8&quot;</td>
<td>48X8/36</td>
<td>36</td>
<td>48</td>
<td>8</td>
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<td>36</td>
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<td>178SS</td>
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<td>48X8/30</td>
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<td>14</td>
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