Ulbrich CCS & SPCCS
Copper Clad Steel

*Precision Drawn, Rolled and Plated Ulbrich Materials*

**Applications:** Wrap, Braid and Center Conductor materials for RF and Microwave Cables

Ulbrich is committed to delivering high precision products, now with the added benefit of bi-metal construction for high strength applications. SPCCS can be manufactured into both round and flat sizes comparable to other copper products.

**Strength Plus Conductivity:** Ulbrich CSS & SPCCS is a stronger alternative to pure copper while retaining desirable electrical properties. This material is ideal for applications where a stronger material is needed without the increase costs of some of the other “high-strength” copper alloys. A graph is included below showing the difference in tensile strength between pure copper, copper clad steel and high strength copper alloy round wires.

*Reference ASTM B501, ASTM B452, and other Standards*

<table>
<thead>
<tr>
<th>Property</th>
<th>Copper Wire</th>
<th>Ulbrich CCS (C1006)</th>
<th>Ulbrich CCS (C1022)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile (psi)</td>
<td>60,300</td>
<td>94,100</td>
<td>123,000</td>
</tr>
<tr>
<td>Yield (psi)</td>
<td>59,300</td>
<td>84,300</td>
<td>108,300</td>
</tr>
<tr>
<td>Electrical Conductivity IACS</td>
<td>100%</td>
<td>40%</td>
<td>40%</td>
</tr>
</tbody>
</table>

Available Forms
- Round and Flat
- Bare and Silver Plated
- Single and Multi-end

Size Ranges
- Diameter: 0.004” to 0.060”
- Thickness: 0.001” to 0.010”
- Width: 0.010” to 0.030”
- 10:1 Width to Thickness Ratio

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