**Ulbrich Lite Weight CCA & SPCCA**

**Copper Clad Aluminum**

**Precision Drawn, Rolled and Plated Ulbrich Lite Weight Materials**

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

Ulbrich is committed to delivering high precision products, now with the added benefit of large weight savings for your critical applications. SPCCA can be manufactured into both round and flat sizes comparable to other copper products.

**Weight Savings Plus Conductivity:** This lighter alternative to pure copper has an approximate weight savings of 70% to copper while retaining desirable electrical properties. This material is ideal for aerospace, military, satellite & other weight conscious applications. To demonstrate the weight saving potential, the graph below shows the difference in weight between a pure copper round wire and that same length and size wire made of copper clad aluminum.

**Reference ASTM B566, and other Standards**

<table>
<thead>
<tr>
<th>Property</th>
<th>Copper Wire</th>
<th>Ulbrich Lite CCA 15%</th>
<th>Ulbrich Lite CCA 10%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density [lb/in³]</td>
<td>0.324</td>
<td>0.131</td>
<td>0.12</td>
</tr>
<tr>
<td>Electrical Conductivity [IACS]</td>
<td>100%</td>
<td>64.42%</td>
<td>62.85%</td>
</tr>
<tr>
<td>Electrical Resistivity [Ohms m]</td>
<td>$1.68 \times 10^{-8}$</td>
<td>$2.67 \times 10^{-8}$</td>
<td>$2.74 \times 10^{-8}$</td>
</tr>
</tbody>
</table>

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

**Size Ranges**
- Diameter: 0.005” to 0.160”
- Thickness: 0.0025” to 0.010”
- Width: 0.015” to 0.100”
- 10:1 Width to Thickness Ratio

**Before Plating**
- Rolled Side

**After Plating**
- Rolled Edge

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