**Electrical Properties (Cable Only)**

- Impedance (ohms): 50
- Velocity of Propagation (%): 78%
- Min. Shielding Effectiveness (dB): 90
- Phase vs. Flexure: Figure 3
- Phase vs. Temperature: Figure 4
- Min. Breakdown Voltage (KV): 5
- Capacitance (pf/ft): 26
- Inductance (nH/ft): 66
- Max Operating Freq (GHz): 50.0
- Max Structural VSWR: 1.20:1

**Physical Properties (Cable Only)**

- Maximum Temperature (deg C): -65'F + 155'F
- Recommended Temperature (deg C): -65'F + 155'F
- Outdoor Jacket Option (in): 0.131
- High Temp. Jacket Option (in): 0.122
- Round Braid O.D. (in): 0.104
- Helical Foil O.D. (in): 0.088
- Flat Braid O.D. (in): 0.081
- Dielectric O.D. (in): 0.075
- Solid Center Conductor (in): 0.025
- Inside Min. Bend Radius (in): 0.6
- Flexure Life (3x min bend radius): >10,000
- Connector Retention (lbs/half): >TBD
- Axial Torque Resistance (lb-in): >TBD
- Weight (lbs/ft): 0.018
- Crash Resistance (lbs/in): >TBD
- Kink Resistance (lbs): >TBD

**Attenuation (dB/100ft) @ 25 deg C**

<table>
<thead>
<tr>
<th>Frequency (GHz)</th>
<th>Attenuation (dB/100 ft)</th>
<th>K Watts</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5</td>
<td>11.61</td>
<td>0.95</td>
</tr>
<tr>
<td>1.0</td>
<td>16.60</td>
<td>0.65</td>
</tr>
<tr>
<td>3.0</td>
<td>29.54</td>
<td>0.38</td>
</tr>
<tr>
<td>6.0</td>
<td>42.86</td>
<td>0.26</td>
</tr>
<tr>
<td>12.0</td>
<td>62.90</td>
<td>0.18</td>
</tr>
<tr>
<td>18.0</td>
<td>78.96</td>
<td>0.14</td>
</tr>
<tr>
<td>26.0</td>
<td>97.60</td>
<td>0.12</td>
</tr>
<tr>
<td>32.0</td>
<td>110.24</td>
<td>0.11</td>
</tr>
<tr>
<td>44.0</td>
<td>195.87</td>
<td>0.10</td>
</tr>
<tr>
<td>50.0</td>
<td>144.00</td>
<td>0.08</td>
</tr>
<tr>
<td>K1</td>
<td>15.98</td>
<td></td>
</tr>
<tr>
<td>K2</td>
<td>6.82</td>
<td></td>
</tr>
</tbody>
</table>

(100 Series cables are constructed in accordance with MIL-DTL-17)

- **Center Conductor:** Silver Plated Copper per ASTM B298
- **Dielectric:** Type F per ASTM D4984 or D4985, Semisolid PTFE (proprietary)
- **Primary Shield:** Silver Plated Copper per ASTM B298
- **Second Shield:** High Temp. Aluminum Polyamide Foil
- **Third Shield:** Silver Plated Copper per ASTM B298
- **High Temp. Jacket:** Type X per ASTM D3159, ETFE

- **Outdoor Jacket:** Type XII Polyurethane (exterior)
  - [Flame Resistance & Smoke = UL94 V-0]
  - [Zero Halogen, Flame Resistance & Smoke = UL94 V-0]

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**Attenuation Figure 1**

**Power Handling Figure 2**

**Phase vs. Flexure Figure 3**

**Phase vs. Temperature Figure 4**

Measured with a 360 degree bend at min. bend radius

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