40 GHz Low Loss Coaxial Cables

Features:
- Strain Relief: Heavy duty adhesive strain relief
- Center Conductor: Silver-plated solid copper
- Inner Braid: Flat silver-plated copper strip
- Outer Braid: PC (Round Silver-Plated Copper Braid)
- Dielectric: Low density microporous PTFE (Polytetrafluoroethylene)
- Jacket: FEP (Fluorinated Ethylene Propylene)
- Cable Outer Diameter: 0.160” (4.06mm)
- Connectors: SST, corrosion-resistant 303 stainless steel per ASTM-A582 (Passivated finish per SAE-AMS-2700)
- Center Pin: GPBC (Gold-Plated Beryllium Copper)
- Jacket Color: Grey
- Operating Temperature: -40°C to +85°C
- Minimum Bend Radius: 1.0”
- Custom Lengths Available

Mechanical Specifications:
- Connector Durability: 500 connections Minimum

Electrical Specifications:
- Impedance: 50 Ohms
- Frequency: Up to 40 GHz
- Insertion Loss: <0.9 dB/ft at 40 GHz
- VSWR: <1.35 to 40 GHz
- Max Operating Voltage: 500V RMS
- Nominal Capacitance: 27.0 pF/ft
- Velocity of Propagation: 76%
- Shield Effectiveness: Greater than 90 dB
- Attenuation (dB/ft): 0.08 Max at 500 MHz
  - connector loss not included
  - 0.17 Max at 2 GHz
  - 0.45 Max at 12 GHz
  - 0.57 Max at 18 GHz
  - 0.70 Max at 26 GHz
  - 0.90 Max at 40 GHz

2.9mm(K) / 2.9mm(K) [Straight/Straight]

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCK40-MM-160-30</td>
<td>40 GHz Low Loss Coax Cable, 2.9mm(K) Male/Male, Straight/Straight</td>
<td>30”</td>
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<tr>
<td>CCK40-MM-160-36</td>
<td>40 GHz Low Loss Coax Cable, 2.9mm(K) Male/Male, Straight/Straight</td>
<td>36”</td>
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<tr>
<td>CCK40-MM-160-39.4</td>
<td>40 GHz Low Loss Coax Cable, 2.9mm(K) Male/Male, Straight/Straight</td>
<td>39.4”</td>
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<tr>
<td>CCK40-MM-160-48</td>
<td>40 GHz Low Loss Coax Cable, 2.9mm(K) Male/Male, Straight/Straight</td>
<td>48”</td>
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</tbody>
</table>
40 GHZ LOW LOSS RF COAX CABLE ASSEMBLIES WITH 2.92mm (K) STAINLESS STEEL CONNECTORS

**Cable Loss (S21)**

Actual Data Plot PN: CCK40-MM-160-36

**Cable VSWR (1:)**

Actual Data Plot PN: CCK40-MM-160-36