The Molex Microcoaxial Connector has a very low profile and works up to 6 GHz making it well suited for wireless LAN applications, mobile phones, radio-communication equipment, measurement equipment, GPS systems and bluetooth applications.

The cable-mount, right-angle plug is available either as a complete cable-assembly or pigtail assembly. The connector assembly can be used in conjunction with our surface-mount PCB jacks, which are available in tape-and-reel packaging. Various RF connector interfaces are available as part of a complete microcoaxial assembly.

**Features and Advantages**

- DC to 6 GHz
- VSWR (max.): 1.3 (DC to 6 GHz)
- Very low mated height, less than 2.50mm
- SMT Jack is packaged in tape and reel
- Cable connectors available for .81mm, 1.13mm, 1.32mm and 1.37mm
- “Drop-in” compatible with Microcoaxial Connectors
- A tactile lock confirms plug and jack are fully mated

**Materials**

Contacts – Phosphor Bronze, Gold plated

Insulator and base (Jack) – LCP

Insulator (Cable plug) – PBT

Outer contact (Cable plug) – Phosphor Bronze, Gold plated
Specifications

ELECTRICAL
Nominal Impedance (Ohms): 50
Frequency Range (GHz): DC-6
Voltage, Working (Vrms): 60
Insulation Resistance (mOhms): 500
Center Contact Resistance (mOhms): 20 max.
Outer Contact Resistance (mOhms): 10 max.
VSWR at Max. Freq.: 1.3 at 6 GHz

MECHANICAL
Coupling Method: Snap
Force to Engage (max.): 4.50 lbs (20N)
Force to Disengage: 1.12 lbs (6N)
Durability (Cycles): 30

ENVIRONMENTAL
Temperature (Degrees C): -40 to +90
Corrosion (Salt Spray): MIL-STD-202, Method 101:
Test Condition B
Mechanical Shock: MIL-STD-202, Method 213:
Test Condition B

TECHNICAL PRODUCT INFORMATION
PCB Jacks: Surface-mount
Cable Plugs: Available as Pigtails and complete cable assemblies
Custom lengths available on request
Adapters: Various between-series adapters available

Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Body</th>
<th>Plating</th>
<th>Cable Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>73412-0110</td>
<td>Surface-Mount Jack</td>
<td>Phosphor Bronze</td>
<td>Gold</td>
<td>N/A</td>
</tr>
<tr>
<td>73116-001X</td>
<td>Cable Plug Pigtail</td>
<td>Phosphor Bronze</td>
<td>Gold</td>
<td>1.13mm</td>
</tr>
<tr>
<td>73116-000X</td>
<td>Cable Plug - Plug Assembly</td>
<td>Phosphor Bronze</td>
<td>Gold</td>
<td>0.81mm</td>
</tr>
<tr>
<td>73116-003X</td>
<td>Cable Plug - Plug Assembly</td>
<td>Phosphor Bronze</td>
<td>Gold</td>
<td>1.32mm</td>
</tr>
<tr>
<td>73386-0850</td>
<td>SMA Plug - Microcoaxial Plug Adapter</td>
<td>Passivated Stainless Steel</td>
<td>Nickel</td>
<td>N/A</td>
</tr>
<tr>
<td>73386-0860</td>
<td>SMA Plug - Microcoaxial Jack Adapter</td>
<td>Passivated Stainless Steel</td>
<td>Nickel</td>
<td>N/A</td>
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<tr>
<td>73116-000X</td>
<td>Cable Plug - Plug Assembly</td>
<td>Phosphor Bronze</td>
<td>Gold</td>
<td>1.13mm</td>
</tr>
</tbody>
</table>

Where part numbers end in X:
X denotes various standard lengths available for each cable assembly or Pigtail.
See drawings for details of cable lengths and complete ordering codes

Coaxial Cable Information

Molex uses coaxial cable from various suppliers. The data below is for reference only and is subject to change by the cable manufacturer. Cable Jacket colors available include: White, Black, Grey, Red

<table>
<thead>
<tr>
<th></th>
<th>0.81mm Cable 50 Ohms</th>
<th>1.13mm Cable 50 Ohms</th>
<th>1.32mm Cable (Double Shield) 50 Ohms</th>
<th>1.37mm Cable 50 Ohms</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center Conductor</td>
<td>AWG 36 (0.15mm dia.)</td>
<td>AWG 32 (0.24mm dia.)</td>
<td>AWG 32 (0.24mm dia.)</td>
<td>AWG 30 (0.30mm dia.)</td>
</tr>
<tr>
<td></td>
<td>Stranded (7 strand)</td>
<td>Stranded (7 strand)</td>
<td>Stranded (7 Strand)</td>
<td>Stranded (7 strand)</td>
</tr>
<tr>
<td></td>
<td>Silver Plated</td>
<td>Silver Plated</td>
<td>Silver Plated</td>
<td>Silver Plated</td>
</tr>
<tr>
<td>Dielectric</td>
<td>TFE 0.40mm diameter</td>
<td>TFE 0.68mm diameter</td>
<td>TFE 0.68mm diameter</td>
<td>TFE 0.88mm diameter</td>
</tr>
<tr>
<td>Shield</td>
<td>Silver Plated Copper wire braid 0.65mm diameter</td>
<td>Tin Plated Copper wire braid 0.88mm diameter</td>
<td>Tin Plated Copper wire braids 1.12mm diameter</td>
<td>Tin Plated Copper wire braid 1.10mm diameter</td>
</tr>
<tr>
<td>Jacket</td>
<td>TFE 0.81mm diameter</td>
<td>TFE 1.13mm diameter</td>
<td>TFE 1.32mm diameter</td>
<td>TFE 1.37mm diameter</td>
</tr>
<tr>
<td>Attenuation (dB/Meter)</td>
<td>3.1 dB at 1 GHz</td>
<td>2.0 dB at 1 GHz</td>
<td>2.0 dB at 1 GHz</td>
<td>1.5 dB at 1 GHz</td>
</tr>
<tr>
<td></td>
<td>5.8 dB at 3 GHz</td>
<td>3.6 dB at 3 GHz</td>
<td>3.6 dB at 3 GHz</td>
<td>2.7 dB at 3 GHz</td>
</tr>
<tr>
<td></td>
<td>9.4 dB at 6 GHz</td>
<td>5.2 dB at 6 GHz</td>
<td>5.2 dB at 6 GHz</td>
<td>4.3 dB at 6 GHz</td>
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</tbody>
</table>

www.molex.com/link/rfmicrowavecoax.html

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