

PRODUCT OVERVIEW



Micro-Coaxial Microminiature Connector

The Molex Micro-Coaxial 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 only available terminated 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 the Micro Coaxial complete assembly.

SMT Jack Cable Assemblies

Features and Benefits

- DC to 6 GHz
- VSWR 1.40:1 Typical, up to 6 GHz
- Very low mated height, less than 2.50mm
- SMT Jack is packaged in tape and reel
- Designed for 0.80mm, 1.13mm & 1.32mm
- "Drop-in" compatible with U.FL 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, tin plated



SPECIFICATIONS

Electrical

Nominal Impedance (Ohms)	Frequency Range (GHz)	Voltage, Working (Vrms)	Insulation Resistance (MOhms)	Center Contact Resistance (MOhms)	Outer Contact Resistance (MOhms)	VSWR at Max. Freq
50	DC-6	60	500	20 max	10 max	1.4 at 6GHz

Mechanical

Coupling Method	Force to Engage (max)	Force to Disengage	Durability (Cycles)
Snap	4.50 lbs (20N)	1.12 lbs (5N)	30

Environmental

Temperature (Degrees C)	Vibration: MIL-STD-202, Method 204	Thermal Shock: MIL-STD-202, Method 107	Corrosion (Salt Spray): MIL-STD-202, Method 101	Mechanical Shock: MIL-STD-202, Method 213	Moisture Resistance: MIL-STD-202, Method 106
-40 to +90	–	–	Test Condition B	Test Condition B	–

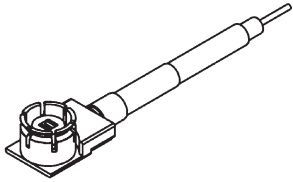


Micro-Coaxial Microminiature Connector

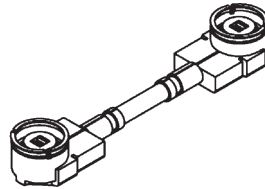
Technical Product Information

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

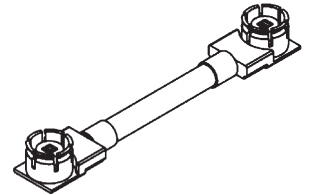
SMT Designs Cable Assemblies



**Micro-Coaxial Plug Pigtail
On 1.13mm Cable**



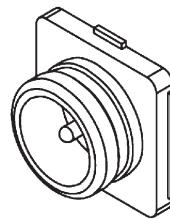
**Micro-Coaxial Plug - Plug
On 0.8mm Cable**



**Micro-Coaxial Plug - Plug
On 1.32mm Cable**



Between-Series Adapters



Surface-Mount Jack

ORDERING INFORMATION

Part Number	Description	Body	Plating	Cable Type
73412-0110	Surface-Mount Jack	Phosphor Bronze	Gold	N/A
73412-025X	Cable Plug Pigtail	Phosphor Bronze	Tin	1.13mm
73412-028X	Cable Plug - Plug Assembly	Phosphor Bronze	Tin	0.8mm
73412-050X	Cable Plug - Plug Assembly	Phosphor Bronze	Tin	1.32mm
73386-0850	SMA Plug - Micro-Coaxial Plug Adapter	Passivated Stainless Steel	Nickel	N/A
73386-0860	SMA Plug - Micro-Coaxial Jack Adapter	Passivated Stainless Steel	Nickel	N/A
73412-9004	Cable Plug - Plug Assembly	Phosphor Bronze	Tin	1.13mm

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



Micro-Coaxial Microminiature Connector

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

SMT Designs Cable Assemblies

	0.80mm Cable 50 Ohms	1.13mm Cable 50 Ohms	1.32mm Cable (Double Shield) 50 Ohms	1.37mm Cable 50 Ohms
Center Conductor	AWG 36 (0.15mm dia.) Stranded (7 strand) Silver Plated	AWG 32 (0.24mm dia.) Stranded (7 strand) Silver Plated	AWG 32 (0.24mm dia.) Stranded (7 Strand) Silver Plated	AWG 30 (0.30mm dia.) Stranded (7 strand) Silver Plated
Dielectric	TFE 0.40mm diameter	TFE 0.68mm diameter	TFE 0.68mm diameter	TFE 0.88mm diameter
Shield	Silver Plated Copper wire braid 0.65mm diameter	Tin Plated Copper wire braid 0.88mm diameter	(2) Tin Plated Copper wire braids 1.12mm diameter	Tin Plated Copper wire braid 1.10mm diameter
Jacket	TFE 0.80mm diameter	TFE 1.13mm diameter	TFE 1.32mm diameter	TFE 1.37mm diameter
Attenuation (dB/Meter)	3.1 dB at 1 GHz 5.8 dB at 3 GHz 9.4 dB at 6 GHz	2.0 dB at 1 GHz 3.6 dB at 3 GHz 5.2 dB at 6 GHz	2.0 dB at 1 GHz 3.6 dB at 3 GHz 5.2 dB at 6 GHz	1.5 dB at 1 GHz 2.7 dB at 3 GHz 4.3 dB at 6 GHz

Molex uses coaxial cable from various suppliers. The data above is for reference only and is subject to change by the cable manufacturer. For a test report, additional details and cable assembly configurations, contact Molex RF/Microwave Connector Division RF@molex.com



www.molex.com

America
2222 Wellington Ct.
Lisle, Illinois 60532 USA
+1-800-78MOLEX
amerinfo@molex.com

Asia Pacific North
Yamato, Kanagawa, Japan
+81-462-65-2324
apninfo@molex.com

Asia Pacific South
Jurong, Singapore
+65-6-268-6868
apsinfo@molex.com

Europe
Walldorf, Germany
+49-6227-3091-0
mxgermany@molex.com

Corporate Headquarters
2222 Wellington Ct.
Lisle, Illinois 60532 USA
+630-969-4550
www.molex.com