



### Overview

Amphenol RF offers a number of 50 ohm SMA and RP-SMA connectors designed to accommodate ultraminiature micro-coax cable types. These jacks and plugs are available in the straight crimp configuration and feature a threaded coupling mechanism for secure mating.

The SMA connector is a lightweight and compact connector that offers reliable RF performance up to 6 GHz. Their high-strength design provides vibration resistance while the micro-coax cables adds considerable flexibility making them ideal for a broad range of design possibilities.

These connectors are part of a robust portfolio of ultraminiature products suitable for applications such as drones, test and measurement equipment, industrial automation and inspection, and Bluetooth and cellular technology.

### Features and Benefits

- Reliable electrical performance up to 6 GHz
- Threaded coupling mechanism for secure mating
- Vibration resistant design
- Ideal for applications with space constraints

### Applications

- Antennas
- Base Stations
- Drones
- Test and Measurement Equipment
- Industrial Automation and Inspection
- Bluetooth and Cellular technology
- WLAN

### Amphenol RF

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For more information visit [www.amphenolrf.com](http://www.amphenolrf.com)  
or call 800.627.7100

### Ordering Information

#### SMA Straight Crimp Jacks for Micro-Coax Cable

| Part Number | Description                      |
|-------------|----------------------------------|
| 901-10761   | SMA Straight Crimp Jack, 0.81 mm |
| 901-10762   | SMA Straight Crimp Jack, 1.13 mm |
| 901-10763   | SMA Straight Crimp Jack, 1.32 mm |
| 901-10764   | SMA Straight Crimp Jack, 1.37 mm |

#### RP-SMA Straight Crimp Jacks for Micro-Coax Cable

| Part Number | Description                         |
|-------------|-------------------------------------|
| 901-10774   | RP-SMA Straight Crimp Jack, 0.81 mm |
| 901-10775   | RP-SMA Straight Crimp Jack, 1.13 mm |
| 901-10776   | RP-SMA Straight Crimp Jack, 1.32 mm |
| 901-10777   | RP-SMA Straight Crimp Jack, 1.37 mm |
| 901-10778   | RP-SMA Straight Crimp Jack, RG-178  |

#### SMA Straight Crimp Plugs for Micro-Coax Cable

| Part Number | Description                      |
|-------------|----------------------------------|
| 901-10107   | SMA Straight Crimp Plug, 1.13 mm |
| 132387      | SMA Straight Crimp Plug, 1.32 mm |
| 132390      | SMA Straight Crimp Plug, 1.37 mm |

#### RP-SMA Straight Crimp Plugs for Micro-Coax Cable

| Part Number | Description                         |
|-------------|-------------------------------------|
| 901-10779   | RP-SMA Straight Crimp Plug, 0.81 mm |
| 901-10780   | RP-SMA Straight Crimp Plug, 1.13 mm |
| 901-10781   | RP-SMA Straight Crimp Plug, 1.32 mm |
| 901-10782   | RP-SMA Straight Crimp Plug, 1.37 mm |



## Technical Specifications

### Electrical

|                                 |            |                        |
|---------------------------------|------------|------------------------|
| Impedance                       |            | 50Ω                    |
| Frequency Range                 |            | DC - 6 GHz             |
| Voltage Rating                  |            | 166 RMS Max Continuous |
| Dielectric Withstanding Voltage |            | 500 VRMS Min           |
| VSWR (Return Loss)              | DC – 3 GHz | 1.3 Max                |
|                                 | 3 – 6 GHz  | 1.4 Max                |
| Insulation Resistance           |            | 5000 MΩ Min            |
| Center Contact Resistance       |            | 3.0 mΩ Min             |
| Outer Contact Resistance        |            | 2.0 mΩ Min             |

### Environmental

|                   |                             |
|-------------------|-----------------------------|
| Temperature Range | -65°C to +165°C             |
| RoHS Compliance   | Compliant with Exemption 6C |

### Mechanical

|                    |          |
|--------------------|----------|
| Mating Cycles      | 500 Min  |
| Coupling Mechanism | Threaded |

### Materials

|           |                                |
|-----------|--------------------------------|
| Body      | Brass, Gold Plating            |
| Contact   | Beryllium Copper, Gold Plating |
| Insulator | PTFE, Natural                  |

*Note: Technical specifications are typical and may vary by specific part number. Please see component drawing.*

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