



Overview

Amphenol RF offers several anti-torque SMA straight solder plug connectors designed for use with popular semi-rigid cable types, as well as hand formable and flexible semi-rigid alternative cables. These durable connectors are engineered to support high-frequency applications up to 26.5 GHz when connected to SMA jacks and 34 GHz when connected to 3.5 mm jack connectors. They will also mate with 2.92 connectors and are ideal for test and measurement equipment.

SMA connectors utilize the reliable threaded coupling mechanism for easy and secure mating and are constructed with either brass or stainless steel with gold plating. This 50 ohm interface features an anti-torque body designed to reduce stress on cable and solder joints.

The rugged anti-torque body allows the user to hold the body with one wrench while simultaneously torquing down the coupling nut to the mating connector with another. This design helps to prevent the entire assembly from twisting during installation which could result in damage to both the cable and connector.

Features and Benefits

- Anti-torque features prevent cable damage
- Designed for high-frequencies with minimal reflections
- Rugged stainless steel coupling nut
- Supports a minimum of 500 mating cycles

Applications

- Test & Measurement Equipment
- 5G Wireless Infrastructure/Devices
- IoT
- Industrial IoT

Amphenol RF

Four Old Newtown Road
Danbury, CT 06810

For more information visit www.amphenolrf.com
or call 800.627.7100

Ordering Information

SMA Connectors, 50 Ohm

| Part Number | Description |
|-----------------|---|
| 901-10710 | Straight Solder Plug for 0.047 inch Semi-Rigid Cable |
| 901-10709 | Straight Solder Plug for RG-405, 0.086 inch Semi-Rigid Cable |
| 901-9201-2ASF-T | Straight Solder Plug for RG-405, 0.086 inch Semi-Rigid Cable, Stainless Steel |
| 901-9808-T | Straight Solder Plug for RG-402, 0.141 inch Semi-Rigid Cable |

Also Available

Anti-Torque SMA to SMP Cable Assemblies



| Part Number | Description |
|-----------------|---|
| 095-902-459-XXX | SMA Straight Plug to SMP Straight Plug, TFlex405 |
| 095-902-581-XXX | SMA Straight Plug to SMP Right-Angle Plug, TFlex405 |

Amphenol® RF

Technical Specifications

Electrical

| | |
|---------------------------------|------------------------------|
| Impedance | 50Ω |
| Frequency Range | DC – 26.5 GHz |
| Voltage Rating | 170 Volts RMS Max Continuous |
| Dielectric Withstanding Voltage | 1000 VRMS Max |
| VSWR (Return Loss) | 1.20 Max @ DC – 22 GHz |
| Center Contact Resistance | 3 mΩ Max |
| Outer Contact Resistance | 2 mΩ Max |

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 or Stainless Steel, Gold Plated |
| Contact | Beryllium Copper or Brass, Gold Plated |
| Insulator | PTFE, Natural |
| Coupling Nut | Stainless Steel, Passivated |
| Gasket | Silicone Rubber, Red |

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

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