Anti-Torque SMA Connector Series

High-Frequency Interconnect for Semi-Rigid Cables

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 torqueing 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 steal coupling nut
- Supports a minimum of 500 mating cycles

Applications

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

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

Amphenol RF
Four Old Newtown Road
Danbury, CT 06810

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

Amphenol® RF

Technical Specifications

Electrical

Impedance	50Ω
Frequency Range	DC – 26.5 GHz
Voltage Rating	170 Volts RMS Max Continious
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 Excemption 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.

Amphenol RF
Four Old Newtown Road
Danbury, CT 06810

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