

# PUSH-ON SMA

Amphenol  
**SV MICROWAVE**

## FEATURES & BENEFITS

**Broadband performance DC to 18 GHz with low VSWR**

**Push-on coupling for high performance in a compact design**

**Push-on mating mechanism for faster mating and de-mating**

**Available for .085" and .141" diameter semi-rigid cables and all the standard flexible cables including double shielded RG-316**

**Can be mated with all threaded female SMA connectors regardless of manufacturer**

## APPLICATIONS

**Military**

**Aerospace**

**Cable Assemblies**

**Telecom**

**Test and Measurement/Instrumentation**

**Base Stations**

**Process Controls**



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SV Microwave offers SMA connectors with a push-on interface that does not require a torque wrench for mating and de-mating. 50 Ohm SMA connectors are precision, subminiature units that provide excellent electrical performance from DC to 18 GHz. These high-performance connectors are compact in size and have outstanding mechanical durability.

Push-on SMAs combine a highly repeatable measurement while eliminating the need for threading on each connector under test, therefore dramatically reducing test times.

SV Microwave manufactures SMA connectors built in accordance with MIL-PRF-39012, which can be mated with all connectors that meet these spec mating diameters regardless of manufacturer. Push-on SMA connectors can also be mated with all threaded female SMA connectors.

## Specifications

### Electrical

Frequency Range	DC to 18 GHz
Insulation Resistance	5000 megohms min.
VSWR	1.05 + .005f GHz (straight design)
Contact Resistance	Center contact = 3.0 milliohms max. Outer contact = 2.0 milliohms max.
Dielectric Withstanding Voltage	MIL-STD-202, method 301 (1000 volts)
Corona Level	MIL-STD-202, method 105, cond. C @ 70,000 ft. (250 volts RMS)
RF High Potential	670 Volts RMS max. @ 5 MHz
RF Leakage	-90 dB
Insertion Loss	0.5 x f (GHz)

### Mechanical

Force to Engage and Disengage	10 lbs. max. (engagement)
Coupling Proof Torque	6 oz. min. (disengagement)
Mating Characteristics	Insertion = 48.0 oz. max. (jack only) Withdrawl = 1.0 oz. min. (jack only)
Connector Durability	500 cycles min.
Cable Retention	Please contact us for more information

### Environmental

Temperature Range	-65°C to +125°C
Meets applicable environmental parameters as defined by MIL-STD-202.	

