

**SMA M SOLDER for Semi-rigid .141/RG402 Cable**

P/N: AT3S1S-6A

**Product Feature:**

- Connector Type : SMA
- Polarity : Standard
- Gender : Male/Plug
- Geometry : Straight
- Termination Style : Solder
- Cable : Semi-rigid .141/RG402
- Application : General Purpose/Telecom etc

The **SMA Male Solder Connector for Semi-Rigid .141/RG402 Cable** is a precision RF connector designed for reliable **high-frequency signal transmission** in demanding applications. Compatible with Semi-Rigid .141 and RG402 cables, it provides **excellent electrical performance, low VSWR, and strong mechanical stability**. The solder-type design ensures secure connectivity and **minimal signal loss**, making it ideal for microwave and RF systems. **Widely used in telecom equipment, aerospace systems, laboratory testing, antennas, defense communication, wireless networks, and RF instrumentation**, this connector delivers stable and efficient performance in high-frequency environments.



**Electrical Specifications**

Parameter	Value	Unit
Characteristic Impedance	50	$\Omega$
Frequency Range	DC ~ 12	GHz
VSWR	$\leq 1.15$	@DC-6 GHz
	$\leq 1.25$	@8-10 GHz
Insertion Loss	$\leq 0.2$	@DC-8 GHz
Insulation Resistance	$\geq 5000$	M $\Omega$
Dielectric Withstanding Voltage	$\geq 1.0$	kVrms (at sea level)
Inner Conductor Resistance	$\leq 3.0$	m $\Omega$
Outer Conductor Resistance	$\leq 2.0$	m $\Omega$
Power Handling	350	W @1GHz
RF Leakage	$\leq -80$	dB @1GHz



## Technical Data Sheet

Material & Plating		
Component	Material	Plating
Center Conductor	Brass	Gold
Outer Conductor/Body	Brass	Gold
Coupling Nut	Brass	Gold/Nickel
Dielectric	Teflon/PTFE	-
Gasket	Silicone rubber	-

Mechanical & Environmental Specifications		
Parameter	Value	Unit
Durability (Matings)	≥ 500 min.	-
Fastening Type	1/4-36	-
Contact Captivation	≥ 27	N
Coupling Nut Retention Force	≥ 270	N
Cable Type Compatibility	Semi-rigid .141/RG402 Cable	-
Operating Temperature	-50 ~ 125	°C
Compliance	ROHS	-