

## SMA M SOLDER for Semi-rigid .086/RG405 Cable

P/N: AT3S1S-6B

### Product Feature:

- Connector Type : SMA
- Polarity : Standard
- Gender : Male/Plug
- Geometry : Straight
- Termination Style : Solder
- Cable : Semi-rigid .086/RG405
- Application : General Purpose/Telecom etc

The **SMA Male Solder Connector for Semi-Rigid .086/RG405 Cable** is a precision-engineered RF connector designed for dependable **high-frequency signal transmission** in compact and demanding applications. **Compatible with Semi-Rigid .086 and RG405 cables**, it offers **excellent electrical performance, low signal loss, and strong mechanical durability**. The solder-type termination ensures a secure and stable connection for consistent RF performance. **Widely used in telecom systems, microwave communication, RF test equipment, antennas, aerospace electronics, wireless networks, and laboratory applications**, this connector delivers reliable operation across various 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

<b>Material &amp; Plating</b>		
<b>Component</b>	<b>Material</b>	<b>Plating</b>
Center Conductor	Brass	Gold
Outer Conductor/Body	Brass	Gold
Coupling Nut	Brass	Gold
Dielectric	Teflon/PTFE	-
Gasket	Silicone rubber	-

<b>Mechanical &amp; Environmental Specifications</b>		
<b>Parameter</b>	<b>Value</b>	<b>Unit</b>
Durability (Matings)	≥ 500 min.	-
Fastening Type	1/4-36	-
Contact Captivation	≥ 27	N
Coupling Nut Retention Force	≥ 270	N
Cable Type Compatibility	Semi-rigid .086/RG405 Cable	-
Operating Temperature	-50 ~ 125	°C
Compliance	ROHS	-