

## SMA M SOLDER for SM250 Cable

P/N: AT3S1S-6Y

### Product Feature:

- Connector Type : SMA
- Polarity : Standard
- Gender : Male/Plug
- Geometry : Straight
- Termination Style : Solder
- Cable: SM250
- Application : General Purpose/Telecom etc



The **SMA Male Solder Connector for SM250 Cable** is a high-performance RF connector designed for reliable signal transmission in **high-frequency applications**. Compatible with SM250 cable, it offers **excellent electrical conductivity, low signal loss, and stable impedance performance** for efficient RF connectivity. The solder-type termination provides a secure and durable connection suitable for demanding environments. Widely **used in telecom systems, antennas, wireless communication equipment, RF testing setups, microwave applications, aerospace electronics, and laboratory instruments**, this connector ensures dependable performance and long operational life.

### Electrical Specifications

Parameter	Value	Unit
Characteristic Impedance	50	$\Omega$
Frequency Range	DC ~ 8	GHz
VSWR	$\leq 1.15$	@DC-4 GHz
	$\leq 1.25$	@3-6 GHz
Insertion Loss	$\leq 0.2$	@DC-5 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	$\leq -60$	dB @1GHz



## Technical Data Sheet

Material & Plating		
Component	Material	Plating
Center Conductor	Brass	Gold
Outer Conductor/Body	Brass	Gold
Coupling Nut	Brass	Gold
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	SM250 Cable	-
Operating Temperature	-50 ~ 125	°C
Compliance	ROHS	-