

**SMA F SOLDER for SM250 Cable**

P/N: AT3S2S-6Y

**Product Feature:**

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

The **SMA Female Solder Connector for SM250 (Sucoform 250) Cables** provides a **high-performance, microwave-grade** termination interface optimized for applications up to 12 GHz. Engineered for tin-soaked, semi-flexible copper braid jackets, this connector allows for a direct, 360-degree solder bond to the outer conductor, delivering **exceptional RF shielding effectiveness and ultra-low VSWR**. The precision-machined solder-pot terminal **ensures robust, phase-stable integration** with the heavy-gauge solid center conductor. It is widely specified in **high-power cellular base stations, defense radar subsystems, satellite terminals, and automated RF test equipment** where **maximum signal fidelity and minimal insertion loss** are required.



**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	$\leq -60$	dB @1GHz



## Technical Data Sheet

Material & Plating		
Component	Material	Plating
Center Conductor	Brass	Gold
Outer Conductor/Body	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
Cable Retention Force	≥ 190	N
Cable Type Compatibility	SM250 Cable	-
Operating Temperature	-50 ~ 125	°C
Compliance	ROHS	-