

SMA F SOLDER for RG405/Semi-rigid .086 Cable

P/N: AT3S2S-6B

Product Feature:

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



The **SMA Female Solder Connector for RG405 and .086" Semi-Rigid Cables** provides a **premium, microwave-grade** termination interface optimized for high-frequency performance. By allowing the cable's copper outer shield to be soldered directly to the connector body, it creates a **continuous 360-degree electrical bond** that **maximizes shielding effectiveness and minimizes VSWR**. The precision-machined solder-pot terminal ensures seamless integration with the solid center conductor, maintaining **flawless phase stability**. This connector is indispensable in **phase-matched cable assemblies, automated test equipment, high-frequency radar subsystems, and dense RF modules** where uncompromised signal fidelity and minimal insertion loss up to 12 GHz and beyond are non-negotiable.

Electrical Specifications

Parameter	Value	Unit
Characteristic Impedance	50	Ω
Frequency Range	DC ~ 12	GHz
VSWR	≤ 1.15	@DC-6 GHz
	≤ 1.25	@8-10 GHz
Insertion Loss	≤ 0.2	@DC-8 GHz
Insulation Resistance	≥ 5000	M Ω
Dielectric Withstanding Voltage	≥ 1.0	kVrms (at sea level)
Inner Conductor Resistance	≤ 3.0	m Ω
Outer Conductor Resistance	≤ 2.0	m Ω
Power Handling	350	W @1GHz
RF Leakage	≤ -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	RG405/Semi-rigid .086 Cable	-
Operating Temperature	-50 ~ 125	°C
Compliance	ROHS	-