

SMA M CLAMP for LMR100/RG174/RG316 Cable

P/N: AT3S1C-6C

Product Feature:

- Connector Type : SMA
- Polarity : Standard
- Gender : Male/Plug
- Geometry : Straight
- Termination Style : Clamp
- Cable : LMR100/RG174/RG316
- Application : General Purpose/Telecom etc

The **SMA Male Clamp Connector for LMR100, RG174, and RG316 coaxial cables** is a precision sub-miniature RF connector featuring a secure threaded interface and a mechanical clamp termination. This clamp design allows for easy **field assembly and reuse without requiring specialized crimping tools**, making it highly versatile for custom installations. Engineered for reliable high-frequency **performance up to 6 GHz**, it delivers low-loss signal transmission and excellent mechanical strength. It is widely **used in laboratory prototyping, RF field testing equipment, telecommunications infrastructure, and custom wireless setups** where durable, field-repairable, and high-performance miniature connections are vital.



Electrical Specifications

Parameter	Value	Unit
Characteristic Impedance	50	Ω
Frequency Range	DC ~ 6	GHz
VSWR	≤ 1.15	@DC-3 GHz
	≤ 1.25	@3-5 GHz
Insertion Loss	≤ 0.2	@DC-4 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
Coupling Nut	Brass	Gold
Back 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	LMR100/RG174/RG316 Cable	-
Operating Temperature	-50 ~ 125	°C
Compliance	ROHS	-