

SMA M RA CLAMP for LMR100/RG174/RG316 Cable

P/N: AT3S3C-6C

Product Feature:

- Connector Type : SMA
- Polarity : Standard
- Gender : Male/Plug
- Geometry : Right Angle (90°)
- Termination Style : Clamp
- Cable : LMR100/RG174/RG316
- Application : General Purpose/Telecom etc



The **SMA Male Right-Angle (RA) Clamp Connector for LMR100, RG174, and RG316 coaxial cables** is a premium sub-miniature RF connector featuring a **90-degree configuration** and a mechanical clamp termination. Unlike crimp styles, the clamp mechanism allows for **field assembly and reuse without specialized crimping tools**, while the right-angle bend safely reduces cable strain in tight spaces. Supporting high-frequency **performance up to 6 GHz**, it is widely used in **field testing equipment, laboratory prototyping setups, aerospace telemetry, and custom RF matrix routing** where **high-density, low-loss, and field-repairable** connections are essential.

Electrical Specifications

Parameter	Value	Unit
Characteristic Impedance	50	Ω
Frequency Range	DC ~ 6	GHz
VSWR	≤ 1.20	@DC-3 GHz
	≤ 1.30	@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	-