

SMA M CRIMP for LMR100/RG174/RG316 Cable

P/N: AT3S1D-6C

Product Feature:

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

The **SMA Male Crimp Connector for LMR100, RG174, and RG316 coaxial cables** is a high-performance, sub-miniature RF connector featuring a secure, threaded interface. Engineered to deliver **exceptional mechanical stability** and **low-loss signal transmission**, it typically supports **high-frequency operations** up to 6 GHz. Its reliable crimp design ensures a robust, vibration-resistant connection in compact environments. This connector is widely utilized across diverse industries, finding critical applications in **Wi-Fi routers, GPS antennas, IoT modules, cellular telecommunications, medical equipment, and precise RF test and measurement setups** where dependable, lightweight, and high-density miniature cabling is essential for seamless connectivity.



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
Ferrule	Copper Alloy	Nickel
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	-