

## SMA M RP CRIMP for LMR100/RG174/RG316 Cable

P/N: AT3S1D-6C2

### Product Feature:

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

The **RP-SMA Male Crimp Connector (Reverse Polarity)** for **LMR100, RG174, and RG316 coaxial cables** is a precision sub-miniature RF connector featuring a standard **male threaded shell with a female center receptacle**. Engineered for reliable high-frequency performance up to 6 GHz, its robust crimp design ensures a **low-loss, vibration-resistant connection** in compact spaces. This configuration is widely used to comply with regulatory standards in consumer wireless equipment, finding common applications in **Wi-Fi routers, access points, Bluetooth modules, Zigbee IoT devices, and wireless surveillance cameras** utilizing lightweight miniature cabling.



### Electrical Specifications

Parameter	Value	Unit
Characteristic Impedance	50	$\Omega$
Frequency Range	DC ~ 6	GHz
VSWR	$\leq 1.15$	@DC-3 GHz
	$\leq 1.25$	@3-5 GHz
Insertion Loss	$\leq 0.2$	@DC-4 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

<b>Material &amp; Plating</b>		
<b>Component</b>	<b>Material</b>	<b>Plating</b>
Center Conductor	Brass	Gold
Outer Conductor/Body	Brass	Gold
Coupling Nut	Brass	Gold
Ferrule	Copper Alloy	Nickel
Dielectric	Teflon/PTFE	-
Gasket	Silicone rubber	-

<b>Mechanical &amp; Environmental Specifications</b>		
<b>Parameter</b>	<b>Value</b>	<b>Unit</b>
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	-