

**Mini BNC M CRIMP for LMR100/RG174/RG316 Cable** P/N: AT3R1D-4C

**Product Feature:**

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



The **Mini BNC Male Crimp Connector** for **LMR100, RG174, and RG316** cables is a compact, high-efficiency RF component designed for space-constrained applications. It features a precision **crimp-style termination** that provides a secure, **vibration-proof mechanical** connection for small-diameter coaxial cables. This connector is highly valued for its stable impedance and **low signal loss across high frequencies**. Common applications include **GPS systems, wireless LAN (WLAN) antennas, medical equipment, and telecommunications**, where reliable performance in a miniature footprint is essential for mission-critical connectivity.

**Electrical Specifications**

Parameter	Value	Unit
Characteristic Impedance	50	$\Omega$
Frequency Range	DC ~ 4	GHz
VSWR	$\leq 1.15$	@DC-2 GHz
	$\leq 1.30$	@2-4 GHz
Insertion Loss	$\leq 0.2$	@DC-4 GHz
Insulation Resistance	$\geq 5000$	M $\Omega$
Dielectric Withstanding Voltage	$\geq 1.5$	kVrms
Inner Conductor Resistance	$\leq 1.0$	m $\Omega$
Outer Conductor Resistance	$\leq 0.25$	m $\Omega$
Power Handling	300	W @1GHz
RF Leakage	$\leq -55$	dB @1GHz



## Technical Data Sheet

Material & Plating		
Component	Material	Plating
Center Conductor	Phosphor Copper	Gold
Outer Conductor/Body	Brass	White Bronze
Ferrule	Annealed Copper	Nickel
Fastening Nut	Brass	Tri-Alloy
Dielectric	Teflon/PTFE	-
Gasket	Silicone rubber	-

Mechanical & Environmental Specifications		
Parameter	Value	Unit
Durability (Matings)	≥ 500 min.	-
Contact Captivation	≥ 27	N
Coupling Nut Torque	7 - 28	Ncm
Coupling Nut Retention Force	≥ 450	N
Cable Type Compatibility	LMR100/RG174/RG316 Cable	-
Operating Temperature	-40 ~ 85	°C
Compliance	ROHS	-