Technical
Data Sheet

BNC M RP CRIMP for LMR100/RG174/RG316 Cable P/N: AT3B1D-4C2

Product Feature:

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

The **BNC Male Reverse Polarity (RP) Crimp connector** for **LMR100, RG174, and RG316 cables** is a specialized RF interface featuring a **male body with a female center socket**. This configuration is primarily used to comply with regulatory requirements in **wireless equipment**, preventing the connection of unauthorized **high-gain antennas**. The crimp-on ferrule provides a secure, **vibration-resistant** attachment for thin flexible cables, ensuring **excellent strain relief**. It is widely applied in **Wi-Fi routers, WLAN access points, and consumer wireless devices** where reliable signal transmission and regulatory compliance are essential.

Electrical Specifications

Parameter	Value	Unit
Characteristic Impedance	50	Ω
Frequency Range	DC ~ 4	GHz
VSWR	≤ 1.15	@DC-2 GHz
	≤ 1.30	@2-4 GHz
Insertion Loss	≤ 0.2	@DC-4 GHz
Insulation Resistance	≥ 5000	MΩ
Dielectric Withstanding Voltage	≥ 1.5	kVrms
Inner Conductor Resistance	≤ 1.0	mΩ
Outer Conductor Resistance	≤ 0.25	mΩ
Power Handling	300	W @1GHz
RF Leakage	≤ -55	dB @1GHz

Ground floor, Plot No -20, (KH No-160/1,street No-3/2, samta Vihar, Mukandpur Extn., North West Delhi, Delhi-110042
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Material & Plating		
Component	**Material**	**Plating**
Center Conductor	Phosphor Copper	Gold
Outer Conductor/Body	Brass	White Bronze
Ferrule	Annealed Copper	Tri-Alloy
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 Cables	-
Operating Temperature	-40 ~ 85	°C
Compliance	ROHS	-

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