

## BNC M COMPRESSION TYPE for RG59 Cable

P/N: AT3B1N-4X

### Product Feature:

- Connector Type : BNC
- Polarity : Standard
- Gender : Male/Plug
- Geometry : Straight
- Termination Style : Compression Type
- Cable : RG59
- Application : General Purpose/Telecom etc

The **BNC Male Compression connector for RG59 cable** is a high-performance RF interface designed for **maximum moisture protection and 360-degree shielding**. Unlike traditional crimps, the compression sleeve creates a permanent, watertight seal, ensuring **superior signal integrity** and high-pull strength for specialized high-frequency cables. It is widely used in **digital broadcast systems, high-speed satellite communication, and outdoor RF distribution networks**. Its rugged construction also makes it ideal for **high-performance test environments and aerospace instrumentation** where cable flexibility and environmental resilience are critical.



### Electrical Specifications

Parameter	Value	Unit
Characteristic Impedance	75	$\Omega$
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

<b>Material &amp; Plating</b>		
<b>Component</b>	<b>Material</b>	<b>Plating</b>
Center Conductor	Phosphor Copper	Gold
Outer Conductor/Body	Brass	White Bronze
Fastening Nut	Brass	Tri-Alloy
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.	-
Contact Captivation	≥ 27	N
Coupling Nut Torque	7 - 28	Ncm
Coupling Nut Retention Force	≥ 450	N
Cable Type Compatibility	RG59 Cable	-
Operating Temperature	-40 ~ 85	°C
Compliance	ROHS	-

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