

## BNC M Connector for RG59 With PLASTIC HOOD

P/N: AT3B1X-4X

### Product Feature:

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

The **BNC Male Connector for RG59 with Plastic Hood** is a reliable, solderless solution designed for high-performance signal transmission. It features a durable, **insulated plastic hood** that provides excellent strain relief and protects the connection from electrical interference and environmental wear. Key features include a **twist-on or crimp-style** design for easy installation and gold-plated pins for superior conductivity. Primarily used in **CCTV surveillance, radio frequency (RF) applications, and broadcast video systems**, it ensures a **secure, low-loss link for standard analog and HD video signals**.



### 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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