

N F BH CLAMP for LMR100/RG174/RG316 Cable

P/N: AT3N2CB-6C

Product Feature:

- Connector Type : N Type
- Polarity : Standard
- Gender : Female/Jack
- Geometry : Straight Bulkhead
- Termination Style : Clamp
- Cable : LMR100/RG174/RG316
- Application : General Purpose/Military



The **N-Type Female Bulkhead (BH) Clamp Connector** is a precision-engineered RF component tailored for small-diameter cables such as **LMR100, RG174, and RG316**. Unlike crimp versions, the clamp mechanism allows for field assembly without specialized tools while maintaining high mechanical retention. The bulkhead design provides a secure, weather-resistant pass-through for enclosures, making it essential for **GPS modules, portable test kits, and internal wireless routing** in tight spaces.

Electrical Specifications

| Parameter | Value | Unit |
|---------------------------------|-------------|------------|
| Characteristic Impedance | 50 | Ω |
| Frequency Range | DC ~ 6 | GHz |
| VSWR | ≤ 1.15 | @DC-3 GHz |
| | ≤ 1.2 | @3-5 GHz |
| Insertion Loss | ≤ 0.05 | @DC-5 GHz |
| Insulation Resistance | ≥ 5000 | M Ω |
| Dielectric Withstanding Voltage | ≥ 2.5 | kVrms |
| Inner Conductor Resistance | ≤ 1.0 | m Ω |
| Outer Conductor Resistance | ≤ 0.25 | m Ω |
| Power Handling | 1.0 | kW @1GHz |
| RF Leakage | ≤ -90 | dB @1GHz |



Technical Data Sheet

| Material & Plating | | |
|-------------------------------|--------------------|----------------|
| Component | Material | Plating |
| Center Conductor | Phosphorous bronze | Gold |
| Outer Conductor/Body | Brass | Tri-Alloy |
| Coupling Nut | Brass | Tri-Alloy |
| Back Nut | Brass | Tri-Alloy |
| Washer | Brass | Tri-Alloy |
| Dielectric | PTFE | - |
| Gasket | Silicone rubber | - |

| Mechanical & Environmental Specifications | | |
|--|--------------------------|-------------|
| Parameter | Value | Unit |
| Durability (Matings) | ≥ 500 min. | - |
| Coupling nut torque | 25/30 | Nm |
| Cable Type Compatibility | LMR100/RG174/RG316 Cable | - |
| Operating Temperature | -40 ~ 85 | °C |
| Ingress Protection (IP Rating) | IP67 | - |
| Compliance | ROHS | - |