

N F CLAMP for LMR300 Cable

P/N: AT3N2C-6H

Product Feature:

- Connector Type : N Type
- Polarity : Standard
- Gender : Female/Jack
- Geometry : Straight
- Termination Style : Clamp
- Cable : LMR300
- Application: General Purpose/Telecom etc.

The **N-Type Female Clamp Connector** is a high-performance RF interface designed for **LMR300** and equivalent low-loss coaxial cables. Featuring a precision-machined clamp mechanism, it allows for **secure field assembly without specialized crimping tools**, making it ideal for repairs or custom installations in the field. This threaded, 50-ohm connector provides superior mechanical retention and weather resistance, typically supporting frequencies up to **8 GHz** with a low VSWR (≤ 1.25).



Electrical Specifications

| Parameter | Value | Unit |
|---------------------------------|-------------|------------|
| Characteristic Impedance | 50 | Ω |
| Frequency Range | DC ~ 6 | GHz |
| VSWR | ≤ 1.15 | @DC-3 GHz |
| | ≤ 1.20 | @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 |
| 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 | LMR 300 Cable | - |
| Operating Temperature | -40 ~ 85 | °C |
| Ingress Protection (IP Rating) | IP67 | - |
| Compliance | ROHS | - |