

## N M CLAMP for 7/8" Feeder Cable

P/N: AT3N1C-6N

### Product Feature:

- Connector Type : N Type
- Polarity : Standard
- Gender : Male/Plug
- Geometry : Straight
- Termination Style : Clamp
- Cable : 7/8" Feeder/LDF
- Application: General Purpose/Telecom etc.



The **N-Type Male Clamp Connector for 7/8" feeder cable** is a high-power RF interface engineered for large-scale telecommunications infrastructure. Its **robust, threaded design** ensures a **50-ohm impedance** and low signal loss across frequencies up to 5 GHz. The precision clamp mechanism enables a secure, moisture-proof field termination on corrugated or foam-dielectric cables without specialized crimping tools. This silver-plated, IP67-rated component is essential for mobile base stations and broadcast systems, providing the high mechanical stability required for long-term outdoor reliability.

### Electrical Specifications

| Parameter                       | Value       | Unit                   |
|---------------------------------|-------------|------------------------|
| Characteristic Impedance        | 50          | $\Omega$               |
| Frequency Range                 | DC ~ 5      | GHz                    |
| VSWR                            | $\leq 1.10$ | @DC-3 GHz              |
|                                 | $\leq 1.15$ | @3-4 GHz               |
| Insertion Loss                  | $\leq 0.05$ | @DC-5 GHz              |
| Insulation Resistance           | $\geq 5000$ | M $\Omega$             |
| Dielectric Withstanding Voltage | $\geq 2.5$  | kVrms                  |
| Inner Conductor Resistance      | $\leq 1.0$  | m $\Omega$             |
| Outer Conductor Resistance      | $\leq 0.25$ | m $\Omega$             |
| PIM                             | $\leq -155$ | dBc@(2 $\times$ 43dBm) |
| RF Leakage                      | $\leq -90$  | dB @1GHz               |



## Technical Data Sheet

| <b>Material &amp; Plating</b> |                           |                |
|-------------------------------|---------------------------|----------------|
| <b>Component</b>              | <b>Material</b>           | <b>Plating</b> |
| Center Conductor              | Phosphor/beryllium bronze | Silver         |
| Outer Conductor/Body          | Brass                     | Tri-Alloy      |
| Back Nut                      | Brass                     | Nickel         |
| Shield Clamp                  | Brass                     | Nickel         |
| Dielectric                    | PTFE                      | -              |
| Gasket                        | Silicone rubber           | -              |

| <b>Mechanical &amp; Environmental Specifications</b> |                       |             |
|--|-----------------------|-------------|
| <b>Parameter</b>                                     | <b>Value</b>          | <b>Unit</b> |
| Durability (Matings)                                 | ≥ 500 min.            | -           |
| Coupling nut torque                                  | 25/30                 | Nm          |
| Cable Type Compatibility                             | 7/8" Feeder/LDF Cable | -           |
| Operating Temperature                                | -40 ~ 85              | °C          |
| Ingress Protection (IP Rating)                       | IP67                  | -           |
| Compliance   | ROHS                  | -           |