

N M CLAMP for 7/8" AI Feeder Cable

P/N: AT3N1C-6P

Product Feature:

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

The **N-Type Male Clamp Connector for 7/8" AI 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 4 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	Ω
Frequency Range	DC ~ 4	GHz
VSWR	≤ 1.15	@DC-3 GHz
	≤ 1.20	@3-4 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
PIM	≤ -155	dBc@(2 \times 43dBm)
RF Leakage	≤ -90	dB @1GHz



Technical Data Sheet

Material & Plating		
Component	Material	Plating
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	-

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