

N M CLAMP for 1/4" Feeder Cable

P/N: AT3N1C-6I

Product Feature:

- Connector Type : N Type
- Polarity : Standard
- Gender : Male/Plug
- Geometry : Straight
- Termination Style : Clamp
- Cable : 1/4" Feeder/LDF
- Application: General Purpose/Telecom etc.

The **N-Type Male Clamp Connector for 1/4" feeder cable** is a high-precision RF interface engineered for 50-ohm systems using small-diameter corrugated or foam-dielectric cables. Its robust threaded design and clamp-style termination provide a secure, gas-tight mechanical bond that can be reliably assembled in the field without specialized crimping tools. Typically finished with tri-metal or silver plating to ensure low Passive Intermodulation (PIM) and superior corrosion resistance, this connector is essential for maintaining signal integrity in high-frequency wireless infrastructure, cellular base stations, and demanding microwave applications up to 11 GHz.



Electrical Specifications

Parameter	Value	Unit
Characteristic Impedance	50	Ω
Frequency Range	DC ~ 8	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
PIM	≤ -155	dBc@(2 \times 43dBm)
RF Leakage	≤ -85	dB @3GHz



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	1/4" Feeder/LDF Cable	-
Operating Temperature	-40 ~ 85	°C
Ingress Protection (IP Rating)	IP67	-
Compliance	ROHS	-