

N M CLAMP for RG217 Cable

P/N: AT3N1C-6T

Product Feature:

- Connector Type : N Type
- Polarity : Standard
- Gender : Male/Plug
- Geometry : Straight
- Termination Style : Clamp
- Cable : RG217
- Application: General Purpose/Telecom etc.



The **N Male Clamp Connector** for **RG217 cable** is a rugged RF interface designed for high-power, low-loss 50-ohm signal transmission. Engineered for the large diameter and double-shielding of RG217, it utilizes a precision **mechanical clamp assembly** to ensure a secure, high-torque bond without specialized crimping tools. This connector is vital for **high-power transmitters** and **military communications** requiring maximum shielding. Its heavy-duty, tri-metal plated construction and internal gaskets provide a weather-sealed, durable connection, maintaining low insertion loss across demanding professional environments.

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
PIM	≤ -155	dBc@(2 \times 43dBm)
RF Leakage	≤ -85	dB @3GHz



Technical Data Sheet

Material & Plating		
Component	Material	Plating
Center Conductor	Phosphor bronze	Gold
Outer Conductor/Body	Brass	Tri-Alloy
Coupling Nut	Brass	Nickel
Back Nut	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	RG217 Cable	-
Operating Temperature	-40 ~ 85	°C
Ingress Protection (IP Rating)	IP67	-
Compliance	ROHS	-