

N M Solder for 1/2" Feeder Cable

P/N: AT3N1S-6K

Product Feature:

- Connector Type : N Type
- Polarity : Standard
- Gender : Male/Plug
- Geometry : Straight
- Termination Style : Solder
- Cable : 1/2" Feeder/LDF
- Application: General Purpose/Telecom etc.

The **N-Type Male Solder Connector for 1/2" feeder cable** is a robust 50-ohm RF interface designed for high-power telecommunications and outdoor wireless infrastructure. Its straight body and precision Solder-style termination provide a **high-strength, gas-tight mechanical bond** that can be reliably assembled in the field, eliminating the need for specialized crimping tools. Usually finished with **tri-metal or silver plating**, these connectors are engineered for superior Passive Intermodulation (PIM) performance and weather resistance, making them a standard for **cellular base stations, broadcast systems, and microwave links** up to 6 GHz.



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@(2x43dBm)
RF Leakage	≤ -85	dB @3GHz



Technical Data Sheet

Material & Plating		
Component	Material	Plating
Center Conductor	Phosphor bronze	Silver
Outer Conductor/Body	Brass	Tri-Alloy
Coupling 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	1/2" Feeder/LDF Cable	-
Operating Temperature	-40 ~ 85	°C
Ingress Protection (IP Rating)	IP67	-
Compliance	ROHS	-