

TNC M SOLDER for RG402/Semi-rigid .141 Cable

P/N: AT3T1S-6A

Product Feature:

- Connector Type : TNC
- Polarity : Standard
- Gender : Male/Plug
- Geometry : Straight
- Termination Style : Solder
- Cable : RG402/Semi-rigid .141
- Application : General Purpose/Telecom etc

The **TNC Male Solder Connector for RG402 and 0.141-inch Semi-Rigid Cable** is a premium microwave interface built for high-frequency performance. By soldering directly to the solid copper outer jacket, it creates a seamless bond that **minimizes impedance mismatches** and delivers **exceptionally low VSWR** and **maximum RF shielding**. Its threaded coupling ensures rugged, vibration-proof stability up to 10 GHz. It is widely utilized in **precision RF laboratory testing, military radar subsystems, satellite communication payloads, and high-frequency telecommunications infrastructure**.



Electrical Specifications

Parameter	Value	Unit
Characteristic Impedance	50	Ω
Frequency Range	DC ~ 10	GHz
VSWR	≤ 1.15	@DC-5 GHz
	≤ 1.25	@3-8 GHz
Insertion Loss	≤ 0.2	@DC-6 GHz
Insulation Resistance	≥ 5000	M Ω
Dielectric Withstanding Voltage	≥ 1.5	kVrms (at sea level)
Inner Conductor Resistance	≤ 1.5	m Ω
Outer Conductor Resistance	≤ 0.2	m Ω
Power Handling	316	W @1GHz
RF Leakage	≤ -55	dB @1GHz



Technical Data Sheet

Material & Plating		
Component	Material	Plating
Center Conductor	Brass	Gold
Outer Conductor/Body	Brass	Nickel
Dielectric	Teflon/PTFE	-
Gasket	Silicone rubber	-

Mechanical & Environmental Specifications		
Parameter	Value	Unit
Durability (Matings)	≥ 500 min.	-
Fastening Type	7/16-28	-
Contact Captivation	≥ 27	N
Cable Retention Force	≥ 175	N
Cable Type Compatibility	RG402/Semi-rigid .141 Cable	-
Operating Temperature	-40 ~ 85	°C
Compliance	ROHS	-