

BNC M Solder for Semi-rigid .141/RG402 Cable

P/N: AT3B1S-4A

Product Feature:

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



The **BNC Male solder connector** for **.141" semi-rigid (RG402)** coax is a high-precision RF component designed for permanent, high-performance installations. By direct-soldering the center conductor and the outer copper jacket, it achieves **superior shielding effectiveness** (>100 dB) and **low VSWR up to 4 GHz**.

Its primary applications include **satellite payloads, military radar systems, and microwave subsystems** where phase stability is critical. It is also essential for **test equipment jumpers** and **in-the-box communication links** that require high vibration resistance and **minimal signal leakage**.

Electrical Specifications

Parameter	Value	Unit
Characteristic Impedance	50	Ω
Frequency Range	DC ~ 4	GHz
VSWR	≤ 1.15	@DC-2 GHz
	≤ 1.30	@2-4 GHz
Insertion Loss	≤ 0.2	@DC-4 GHz
Insulation Resistance	≥ 5000	M Ω
Dielectric Withstanding Voltage	≥ 1.5	kVrms
Inner Conductor Resistance	≤ 1.0	m Ω
Outer Conductor Resistance	≤ 0.25	m Ω
Power Handling	300	W @1GHz
RF Leakage	≤ -55	dB @1GHz



Technical Data Sheet

Material & Plating		
Component	Material	Plating
Center Conductor	Phosphor Copper	Gold
Outer Conductor/Body	Brass	White Bronze
Fastening Nut	Brass	Tri-Alloy
Dielectric	Teflon/PTFE	-
Gasket	Silicone rubber	-

Mechanical & Environmental Specifications		
Parameter	Value	Unit
Durability (Matings)	≥ 500 min.	-
Contact Captivation	≥ 27	N
Coupling Nut Torque	7 - 28	Ncm
Coupling Nut Retention Force	≥ 450	N
Cable Type Compatibility	Semi-rigid .141/RG402 Cables	-
Operating Temperature	-40 ~ 85	°C
Compliance	ROHS	-