

BNC M Solder for Semi-rigid .086/RG405 Cable

P/N: AT3B1S-4B

Product Feature:

- Connector Type : BNC
- Polarity : Standard
- Gender : Male/Plug
- Geometry : Straight
- Termination Style : Solder
- Cable : Semi-rigid .086/RG405
- Application : General Purpose/Telecom etc

The **BNC Male Solder connector for .086" semi-rigid and RG405 cable** is engineered for high-performance RF environments requiring **low signal leakage** and **superior stability**. Its direct-solder attachment ensures a seamless, durable connection, **ideal for microwave applications** up to **4 GHz**. Key features include a robust bayonet coupling mechanism for quick, secure mating and a gold-plated center contact for optimized conductivity. These connectors are widely used in **test and measurement setups, telecommunications infrastructure, and laboratory grade instrumentation**.



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 .086/RG405 Cables	-
Operating Temperature	-40 ~ 85	°C
Compliance	ROHS	-