

## BNC F Solder for Semi-rigid .141/RG402 Cable

P/N: AT3B2S-4A

### Product Feature:

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

The **BNC Female Solder connector for .141" semi-rigid & RG402 cables** is a **high-stability** RF interface designed for **low-loss performance** in demanding environments. Its direct-solder construction provides **excellent shielding effectiveness** and **mechanical rigidity**, ensuring a permanent, high-integrity connection with **minimal VSWR**. Featuring a gold-plated center contact and a robust bayonet interface, it **offers superior conductivity and durability**. These connectors are ideal for **high-frequency microwave systems, defense electronics, and laboratory-grade test assemblies** where **precise signal transmission** and **resistance to vibration** are paramount.



### Electrical Specifications

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



## Technical Data Sheet

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

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