

## BNC M CPS TYPE CRIMP for BT3002 Cable

P/N: AT3B10S-4S

### Product Feature:

- Connector Type : BNC
- Polarity : Standard
- Gender : Male/Plug
- Geometry : Straight CPS (center pin solder)
- Termination Style : Crimp
- Cable : BT3002
- Application : General Purpose/Telecom etc

The **BNC Male Center Pin Solder (CPS) Crimp** connector for **BT3002 cable** is a high-reliability RF interface designed specifically for **high-density telecommunications** and data applications. This connector utilizes a **soldered center pin** to ensure a **low-resistance, permanent electrical connection**, while the crimp ferrule provides robust mechanical strain relief for the **75-ohm BT3002 coaxial line**. It is primarily used in **telecom central offices, DS3/DS4 digital distribution frames (DDF), high-speed data networking, and broadcast video transmission systems** where **signal integrity** and **vibration resistance** are critical.



### Electrical Specifications

Parameter	Value	Unit
Characteristic Impedance	75	$\Omega$
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

<b>Material &amp; Plating</b>		
<b>Component</b>	<b>Material</b>	<b>Plating</b>
Center Conductor	Phosphor Copper	Gold
Outer Conductor/Body	Brass	White Bronze
Ferrule	Annealed Copper	Tri-Alloy
Fastening Nut	Brass	Tri-Alloy
Dielectric	Teflon/PTFE	-
Gasket	Silicone rubber	-

<b>Mechanical &amp; Environmental Specifications</b>		
<b>Parameter</b>	<b>Value</b>	<b>Unit</b>
Durability (Matings)	≥ 500 min.	-
Contact Captivation	≥ 27	N
Coupling Nut Torque	7 - 28	Ncm
Coupling Nut Retention Force	≥ 450	N
Cable Type Compatibility	BT3002 Cable	-
Operating Temperature	-40 ~ 85	°C
Compliance	ROHS	-