

BNC M CPS TYPE CRIMP for RG59 Cable

P/N: AT3B10S-4X

Product Feature:

- Connector Type : BNC
- Polarity : Standard
- Gender : Male/Plug
- Geometry : Straight CPS (center pin solder)
- Termination Style : Crimp
- Cable : RG59
- Application : General Purpose/Telecom etc

The **BNC Male Center Pin Solder (CPS) Crimp** connector for **RG59 cable** combines the mechanical strength of a crimp ferrule with the **high-reliability electrical connection** of a **soldered center contact**. This hybrid design ensures a low-resistance signal path and **maximum conductivity**, while the crimp sleeve provides **excellent strain relief** and a vibration-proof outer bond. It is widely used in **high-resolution CCTV systems, broadcast studio wiring, RF laboratory testing, and aerospace electronics** where a **permanent, high-integrity electrical joint** is critical for consistent **75-ohm performance**.



Electrical Specifications

Parameter	Value	Unit
Characteristic Impedance	75	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
Ferrule	Annealed Copper	Tri-Alloy
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	RG59 Cable	-
Operating Temperature	-40 ~ 85	°C
Compliance	ROHS	-