Technical
Data Sheet

BNC M COMPRESSION TYPE for RG6/SM250 SUCO Flex Cable

P/N: **AT3B1D-4V**

Product Feature:

- Connector Type : BNC
- Polarity : Standard
- Gender : Male/Plug
- Geometry : Straight
- Termination Style : Compression Type
- Cable : RG6/SM250
- Application : General Purpose/Telecom etc

The **BNC Male Compression connector for RG6 and SM250 SUCO-Flex cables** is a high-performance RF interface designed for **maximum moisture protection and 360-degree shielding**. Unlike traditional crimps, the compression sleeve creates a permanent, watertight seal, ensuring **superior signal integrity** and high-pull strength for specialized high-frequency cables. It is widely used in **digital broadcast systems**, **high-speed satellite communication**, and **outdoor RF distribution networks**. Its rugged construction also makes it ideal for **high-performance test environments** and **aerospace instrumentation** where cable flexibility and environmental resilience are critical.

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	MΩ
Dielectric Withstanding Voltage	≥ 1.5	kVrms
Inner Conductor Resistance	≤ 1.0	mΩ
Outer Conductor Resistance	≤ 0.25	mΩ
Power Handling	300	W @1GHz
RF Leakage	≤ -55	dB @1GHz

Ground floor, Plot No -20, (KH No-160/1,street No-3/2, samta Vihar, Mukandpur Extn., North West Delhi, Delhi-110042
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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	RG6/SM250 Cables	-
Operating Temperature	-40 ~ 85	˚C
Compliance	ROHS	-

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