High Density Connectivity for a Higher Definition World
Product Description

Amphenol RF, the inventor of the BNC, introduces the High Density BNC family of connectors.

HD-BNC delivers TRUE 75 Ohm performance in a footprint 51% smaller than traditional BNC connectors, allowing 4X the density.

Engineered to enhance electrical and mechanical performance, the HD-BNC connector features the trusted, push and turn interface of a traditional BNC, providing tactile feedback and a positive lock for quick and guaranteed mating.

Using the same cable prep and termination specifications of legacy broadcast connectors makes adopting HD-BNC seamless.

Applications

Digital A/V cards or Routing Systems

- Increased density hence room for ventilation
- Stack more cards in less rack space
- PCB solutions to maintain signal integrity for 3 Gbps+ applications
- SFPs with HD-BNCs

Mobile Broadcast

- Mechanically robust and reliable interface
- Trusted positive locking mechanism
- Lowers equipment weight

Studio Integration

- 3 Gbps+ signal for the distance over 190 m
- Same stripping and termination tools
- Patch panel solutions with HD-BNCs
- Availability of installation and removal tool
- HD-BNC plug for 1694A type cables

Broadcast Cameras

- High Density without compromising signal integrity
- Helps reduces the equipment size and cost
- CCTV Market

For more information
Visit: HDBNC@AmphenolRF.com or E-mail: HDBNC@AmphenolRF.com
Technical Details

**Electrical**

- **Impedance**: 75 Ohms
- **Frequency Range**: 0-6 GHz
- **Voltage Rating**: 170 Volts
- **Dielectric Withstanding Voltage**: 500 VRMS
- **Return Loss**: 30 dB Min @ 3 GHz
- **Contact Resistance**: Center Contact: 5 m ohm, Outer Contact: 2.5 m ohm
- **Insulation Resistance**: 10,000 M ohm minimum
- **Data Rate**: 3 Gbps or higher

**Mechanical**

- **Mating**: Bayonet Positive Locking, Visual Indicator
- **Braid/Jacket Cable Affixment**: Hex crimp
- **Center Conductor Cable Affixment**: Solder/ Crimp
- **Tool**: Conventional crimp/ Die sets
- **Contact Captivation**: All types as noted
- **Connector Durability**: 500 mating cycles minimum

**Materials**

- **Male Contact**: Brass, Amorphous (gold) Plating
- **Female Contact**: Beryllium copper, Amorphous (gold) Plating
- **Outer Contacts**: Beryllium copper, Nickel Plating
- **Body & Hardware**: Brass, Nickel Plating

Features and Benefits

- Provides 4x the density than regular BNC
- Trusted bayonet style positive lock
- Closed entry interface
- VSWR or Return Loss: 30dB min @ 3GHz
- Accomodates 1694A (RG-6) type cables
- Meets and exceeds SMPTE 292M and 424M standards for 3 Gbps
- Same user experience as traditional BNCs
- Recommended minimum pitch of 8 mm for cables < 5.4 mm (ex: 1855A types)
- Recommended minimum pitch of 9.5 mm for cables > 5.4 mm (ex: 1694A types)
- Complete product portfolio including Calibration kit and Precision adapters
- Assured mating with visual indicator

For more information

Visit: HDBNC.AmphenolRF.com or E-mail: HDBNC@AmphenolRF.com

Scan the QR Code to download SMPTE whitepaper or visit HDBNC.AmphenolRF.com.
Worldwide Distribution Network for **HD-BNC**

**HD-BNC** has a complete list of global distributors on-line. To visit the global list of distributors, please scan the QR code to the left or visit HDBNC.AmphenolRF.com.

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