

HD-BNC
By Amphenol® RF



**High Density Connectivity
for a Higher Definition World**



Amphenol® RF

Global RF Solutions
HDBNC.AmphenolRF.com

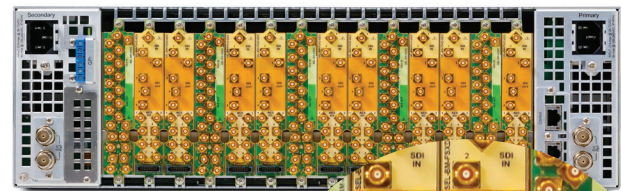
Product Description

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

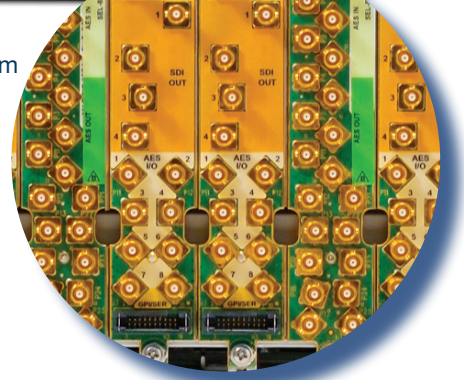
HD-BNC delivers TRUE 75 Ohm performance in a footprint 51% smaller than traditional BNC connectors, allowing 4X the density.

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.

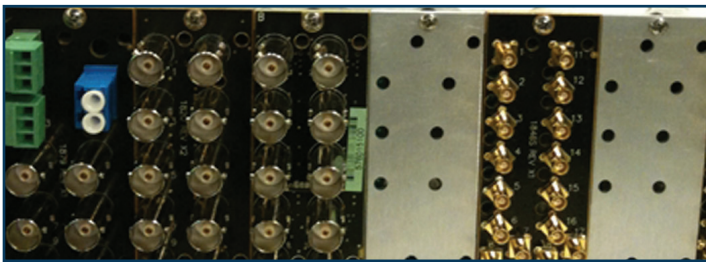
Using the same cable prep and termination specifications of legacy broadcast connectors makes adopting HD-BNC seamless.



Above and Inset Image: Selenio Broadcast system from Harris.



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



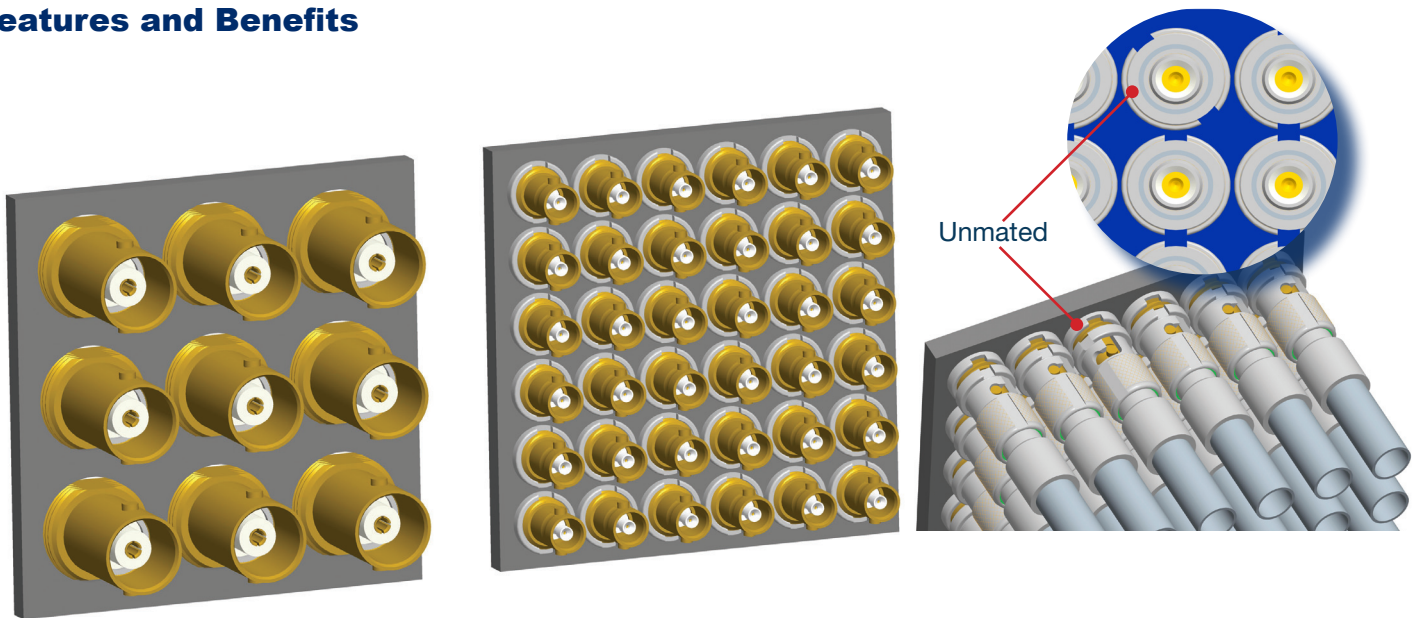
Broadcast Cameras

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

For more information

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

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

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 |

| 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 |

| Mechanical | |
|----------------------------------|--|
| Mating | Bayonet Positive Locking, Visual Indicator |
| Braid/Jacket Cable Affixmen | 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 |



Scan the QR Code to download SMPTE whitepaper or visit HDBNC.AmphenolRF.com.

For more information

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

BNC to HD-BNC Adapters

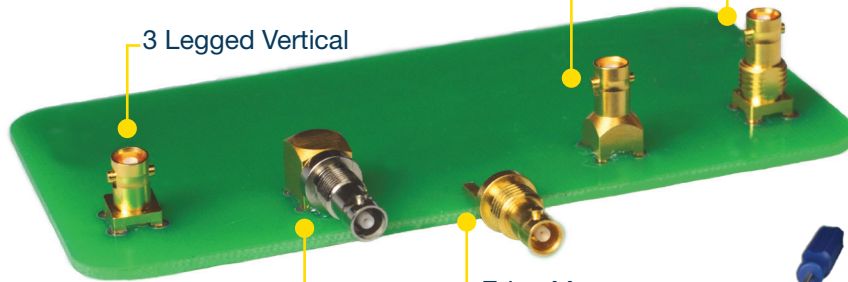


Long Nose Vertical

Vertical Bulkhead

Precision Type N to HD-BNC Adapters

3 Legged Vertical



R/A PCB

Edge Mount



Scan here to download the **HD-BNC** Parts List or visit HDBNC.AmphenolRF.com.

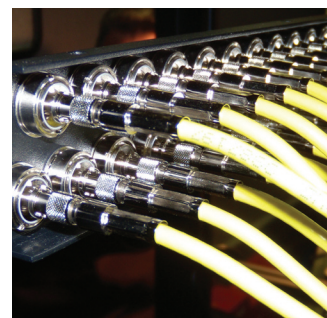
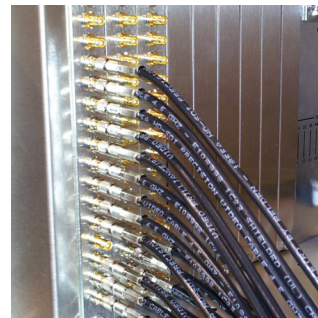


HD-BNC Tool
US Patent #US7553177

To learn more about **HD-BNC**:
Web HDBNC.AmphenolRF.com
E-mail HDBNC@AmphenolRF.com
Phone +1 203 743 9272



Image courtesy of Embrionix



Follow **HD-BNC** on:

