

High Density Connectivity



Amphenol[®] RF

Global **RF** Solutions HDBNC.AmphenolRF.com

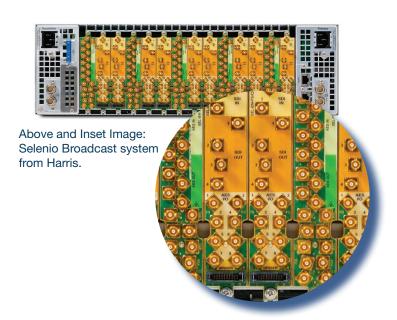
Product Description

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

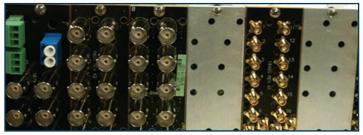
HD-BNC delivers TRUE 75 Ohm performance in a footprint 51% smaller than traditional BNC connectors, allowing 4X the density.

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.



Applications



Digital A/V cards or Routing Systems

- Increased density hence room for vemtilation
- Stack more cards in less rack space
- PCB solutions to maintain signal integrity for 3 Gbps+ applications



Mobile Broadcast

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

• SFPs with HD-BNCs



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



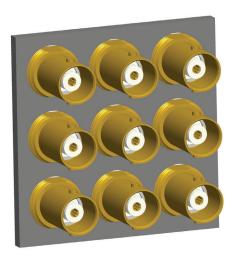
Broadcast Cameras

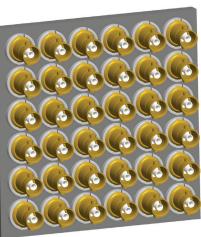
- High Density without compromising signal integrity
- Helps reduces the equipment size and cost
- CCTV Market

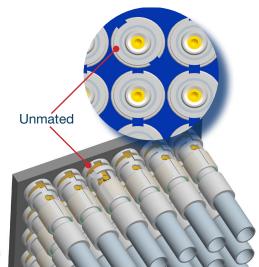
For more information

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

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



To learn more about HD-BNC:WebHDBNC.AmphenoIRF.comE-mailHDBNC@AmphenoIRF.comPhone+1 203 743 9272





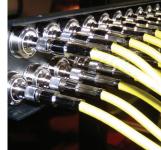


Image courtesy of Embrionix



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