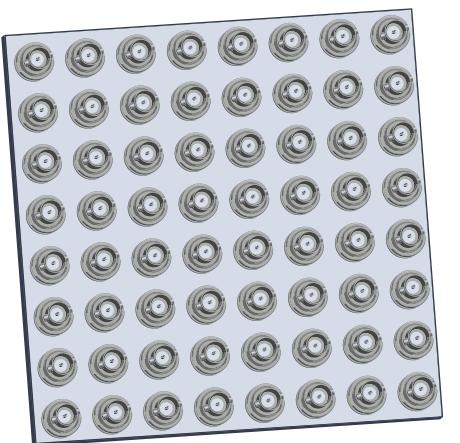


# High Density BNC Connectors

## Spacing

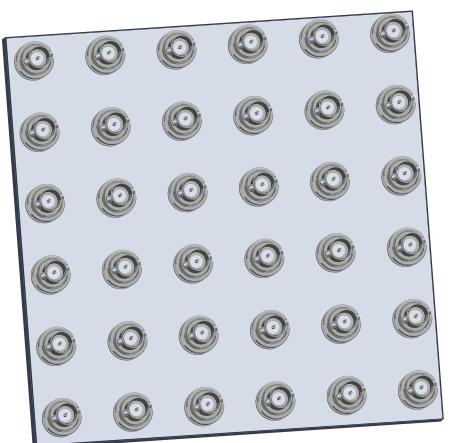
### HD BNC



**High Density Cable**



8 mm (.315")  
64 interconnects in 2.5 x 2.5"

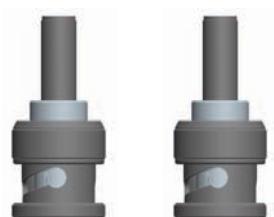


**Standard Cable**



10.5 mm (.413")  
36 interconnects in 2.5 x 2.5"

### Standard BNC



15.9 mm (.625")

16 interconnects in 2.5 x 2.5"

**www.AmphenolRF.com**

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Danbury, CT 06810 USA  
Tel: (800) 627-7100  
Fax: (203) 796-2032

Downloaded from [Arrow.com](http://Arrow.com)

P.R. China, Amphenol RF Shenzhen  
Block DM2, Tong Wei Industrial District  
Industry General Co.  
Gong Mong Town, Bao An District  
Shenzhen 518132, P.R. China

# HD BNC

## High Density BNC Connectors

**SMPTE  
Compliant**

**Amphenol® RF**  
Global RF Solutions

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 four times 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.

## Features and Benefits

- **High Density Solution** - Allows four times as many interconnects as the BNC.
  - 51% smaller than the BNC
  - 39% smaller than the Mini-BNC
- **Bayonet Coupling** - Provides a positive lock and allows for quick and easy connect and disconnect.
- **True 75 Ohm Impedance** - Higher performance, unmatched reliability.
- **Fits traditional Broadcast Cables** - Belden 1694 &1855  
Image 360

## Applications

**Broadcast**  
**Digital Video – HDTV**  
**Telco Central Office**  
**Instrumentation**  
**DS3/DS4**  
**Custom Cable Assemblies**  
**Network Routing & Switching**  
**Military/Aerospace**  
**Medical Equipment**  
**Satellite Headends**



## Specifications

### Electrical

Impedance	75 Ω
Frequency Range	0-6 GHz
Voltage Rating	170 VRMS
Dielectric Withstanding Voltage	500 volts
Return Loss	30 dB @ 3 GHz
Contact Resistance	Center contact: 5 m Ω Outer contact: 2.5 m Ω
Insulation Resistance	10,000 M Ω minimum
Date Rate	3 Gbps or higher

### Mechanical

Mating	Bayonet Positive Locking
Braid/Jacket Cable Affixment	Hex crimp
Center Conductor Cable Affixment	Solder / Crimp
Contact Captivation	All types unless noted otherwise
Connector Durability	500 mating cycles minimum

### Material

Male Contact	Brass, AmorPHous (gold) Plating
Female Contact	Beryllium copper, AmorPHous (gold) Plating
Outer Contacts	Beryllium copper, Nickel Plating
Bodies and Hardware	Brass, Nickel Plating

Meets SMPTE 292M & 424M standards



# HD BNC

Amphenol® RF  
Global RF Solutions

[www.AmphenolRF.com](http://www.AmphenolRF.com)

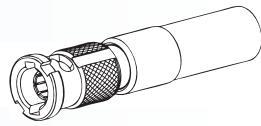
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# HD-BNC Part Numbers

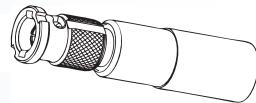
## Plugs for High Density Cable

034-1033	Plug for Times Fiber 210HDTV
034-1026	Plug for Belden® 1855A
034-1037	Plug for Belden® 1855ENH, Image 360



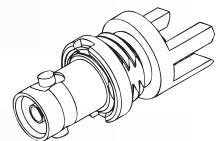
## Plugs for Standard Cable

034-1027	Plug for Belden® 1695A
034-1017-300	Plug for Belden® 1694A, Image 1000
034-1025	Plug for Belden® 1505A, Image 720



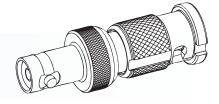
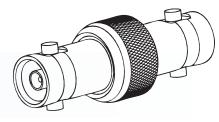
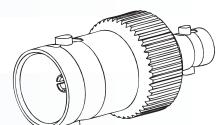
## PCB Connectors

034-1021	Vertical Jack
034-1018	Edge Launch
034-1030	Right Angle



## Adapters

APH-BNCJ-HDBNCP	BNC Jack to HD-BNC Plug
APH-BNCJ-HDBNCJ	BNC Jack to HD-BNC Jack
APH-BNCP-HDBNCP	BNC Plug to HD-BNC Plug
APH-BNCP-HDBNCJ	BNC Plug to HD-BNC Jack
APH-HBNCP-J	HD-BNC Plug to HD-BNC Jack
APH-HBNCJ-J	HD-BNC Jack to HD-BNC Jack
APH-HDBNCJ-T	HD-BNC Jack Termination
APH-HDBNCP-T	HD-BNC Plug Termination
APH-HDJ-JISO	Panel HD-BNC Jack to HD-BNC Jack , Isolated Adapter
APH-HDJ-BNCJ	Panel HD-BNC Jack to BNC Jack , Isolated Adapter
APH-HDJ-1023J	Panel HD-BNC Jack to 1.0/2.3 Jack , Isolated Adapter
034-1023	HD-BNC TEE Adapter,Jack ( 3 )



## Assembly Tools

227-1490	Spanner Nut Tool
227-T2000	Mating Tool, #1
APH-HDBNC-EVAL	Evaluation Kit