

HD-BNC™

High Density BNC Connectors

NEW

Amphenol® **RF**

Global **RF** Solutions

Amphenol RF's HD-BNC™ - bringing higher density connectivity to a higher definition world.

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, and 40% smaller than the DIN 1.0/2.3. 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 BNC
- 39% smaller than Mini-BNC
- 40% smaller than DIN 1.0/2.3

Bayonet Coupling

Positive lock allows for quick and easy connection using patented mating/demating technology.

True 75 Ohm Impedance

Higher Performance over longer distances.

Fits Traditional Broadcast Cables

- Belden®
- Times Fiber®
- DRAKA®
- Image 360®

Complete Product Line

- Plugs
- Adapters
- Jacks
- PCB Mounts

Applications



Broadcast
Digital Video – HDTV
Custom Cable Assemblies
Network Routing & Switching
Satellite Headends
Telco Broadband
CATV
OEM
DS3/DS4

Amphenol®RF

Global RF Solutions

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
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

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

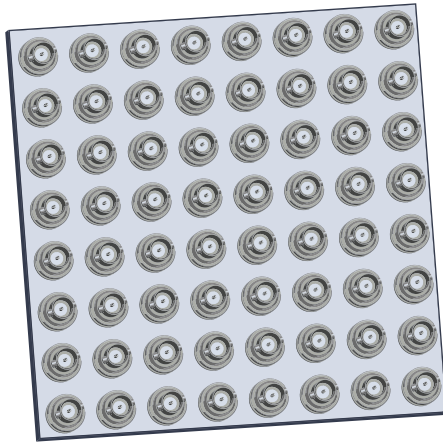
Meets SMPTE 292M & 424M Standards



High Density BNC Connectors

Spacing

HD-BNC™

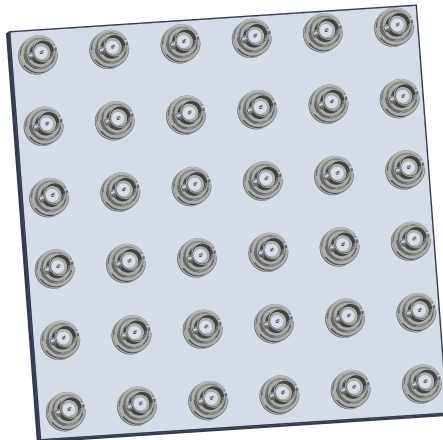


High Density Cable



8 mm (.315")

64 interconnects in 2.5 x 2.5"



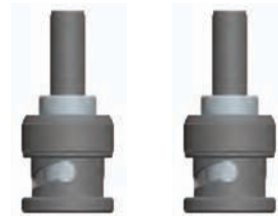
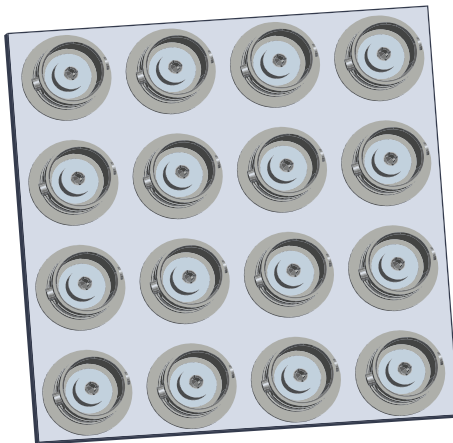
Standard Cable



9.5 mm (.374")

36 interconnects in 2.5 x 2.5"

Standard BNC



15.9 mm (.625")

16 interconnects in 2.5 x 2.5"

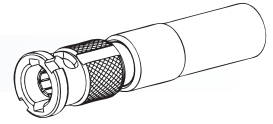
HDBNC.AmphenolRF.com

HD-BNC™ Part Numbers

Rev 2.0
3/2011

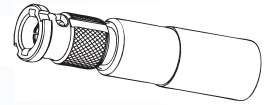
Plugs for High Density Cable

034-1033	Plug for Times Fiber T210HDTV
034-1026	Plug for Belden® 1855A, T8550A
034-1037	Plug for Belden® 1855ENH, DRAKA 0.6/2.8 AF
034-1037-100	Plug for Image 360



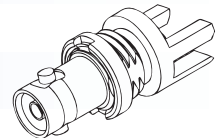
Plugs for Standard Cable

034-1027	Plug for Belden® 1695A, T6950A
034-1017-300	Plug for Belden® 1694A, Image 1000, T6940A
034-1025	Plug for Belden® 1505A, Image 720



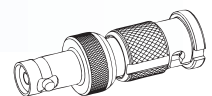
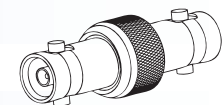
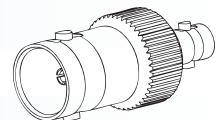
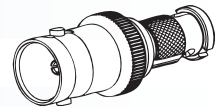
PCB Connectors

034-1021	Vertical Jack, 3 Leg, Square
034-1032	Vertical Jack, 3 Leg, Round
034-1018	Edge Launch, Jack, BH
034-1030	Right Angle, Jack, BH
034-1024	Vertical Jack, 4 Leg, Square
034-1028	Vertical Jack, 4 Leg, Square, BH
031-1040	Vertical Jack, 4 Leg, Square, Extended, BH



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-HDBNCP-J	HD-BNC Plug to HD-BNC Jack
APH-HDBNCJ-J	HD-BNC Jack to HD-BNC Jack
APH-HDBNCJ-T	HD-BNC Jack Termination
APH-HDBNCP-T	HD-BNC Plug Termination
APH-HD-ISO-HD	Panel HD-BNC Jack to HD-BNC Jack , Isolated Adapter
APH-HD-ISO-BNC	Panel HD-BNC Jack to BNC Jack , Isolated Adapter
APH-HD-ISO-1023	Panel HD-BNC Jack to 1.0/2.3 Jack , Isolated Adapter
APH-NJ-HDBNCJ	N Jack to HD-BNC Jack
APH-NJ-HDBNCP	N Jack to HD-BNC Plug
APH-NP-HDBNCJ	N Plug to HD-BNC Jack
APH-NP-HDBNCP	N Plug to HD-BNC Plug
034-1023	HD-BNC TEE Adapter, Jack (3)



Assembly Tools

227-1490	Spanner Nut Tool
227-T2000	Mating / Unmating Tool
APH-HDBNC-EVAL	Evaluation Kit



HD-BNCTM

Amphenol[®] RF

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