



## Radiall BNC HD Connector

### General

- The first lightweight composite HDTV BNC available on the market
- Easy to connect and disconnect from the rear—ideal for high-density and recessed bulkhead applications
- Color-coded boots directly on the connector for easy video signal identification
- Guaranteed studio quality performance up to 6 GHz
- 1000 mating cycles minimum for guaranteed durability in the field
- True 75Ω design

### Applications

- Broadcast TV stations and studios
- Video routing and production
- Video surveillance equipment
- Video conference equipment

HDTV places new demands on maintaining high signal integrity at high data rates, from studio-quality broadcast production to video conferencing equipment, our selection of affordable BNC HD connectors offer more bandwidth, more performance, and are easier to use.

Our new technologically advanced high-speed true 75Ω BNC HD connector features an incredible easy-to-use two-piece design that makes it easy to crimp on the cable. This new connector can handle data rates up to 3 Gbps or higher while meeting or exceeding SMPTE 292M and 424M standards. The gold plated center and outer contacts provide outstanding electrical performance with a frequency range of up to 6 GHz, and a low return loss of -32 dB at 3 GHz.

The connector comes in a wide variety of colors for signal cable identification and its special curved interface design with positioning marks makes it easy and fast to connect in high-density and recessed bulkhead applications.

## Product Range

CABLE GROUP	CABLE DIA.	Connector	Part Num.	CRIMP TOOL (mm)	SQUARE CENTER PIN	CRIMP TOOL
<b>RD 179 / G4</b>	0.3 / 1.4		R142 077 742	5.41	1.10	R282 232 000
Belden 179DT Draka 0.31/1.4 AF CAE HD 03140			R280 560 00x	5.41	1.10	R282 232 000
<b>MINI RG59 / G41</b>	0.6 / 2.8		R142 079 75x	5.41	1.10	R282 232 000
Belden 1855A, 1855P Draka 0.6/2.8 AF CAE HD 0628 Radiall C291.333.033			R142 077 702	5.41	1.10	R282 232 000
			R280 57x 000	5.41	1.10	R282 232 000
<b>MINI RG59</b>	0.6 / 2.95		R142 077 712	5.41	1.10	R282 232 000
Argosy Image 360			R280 57x 000	5.41	1.10	R282 232 000
<b>RG59 / G39</b>	0.8 / 3.7		R142 079 76x	6.48	1.15	R282 234 000
Belden 1505A, 1505F Draka 0.8/3.7 AF CAE HD 08370 Argosy Image 720 Radiall C291.360.093			R142 187 720	6.48	-	R282 234 000
			R142 334 700	6.48	1.15	R282 234 000
			R142 077 722	6.48	1.15	R282 234 000
			R280 59x 000	6.48	1.15	R282 234 000
			R142 085 702	6.48	Hex 1.73	R282 223 000
			R280 59x 000	6.48	Hex 1.73	R282 223 000
<b>RG6 / G27</b>	1.0 / 4.8		R142 079 77x	6.7	1.10	R282 232 000
Belden 1694A, 1694D, 1694F, 1694SB, 1694WB, 1695A Draka 1.0/4.8 AF CAE HD 10460 Argosy Image 1000 Radiall C291.384.083			R142 077 732	6.98	1.15	R282 234 000
<b>RG11 / G31</b>	1.6 / 7.3		R142 077 747	10.54	Hex 1.73	R282 231 000
Belden 7731 Draka 1.6/7.3 AF CAE HD 16720 Argosy Image 2000						

**COLOR KEY** When ordering, replace the "x" in the part number with a number below corresponding to your desired boot color:  
black=0 red=1 green=2 blue=3 yellow=4 grey=5 white=6 brown=7 orange=8 violet=9

## Adaptors

SERIES	DESCRIPTION	PART NUM.
IN-SERIES	MALE- MALE	R142 703 703
IN-SERIES	FEMALE-FEMALE	R142 720 700
BETW-SERIES	BNC HD MALE - N MALE	R192 417 010
BETW-SERIES	BNC HD FEMALE - N FEMALE	R192 418 010

## Receptacles

DESCRIPTION	PART NUM.
STRAIGHT EDGE MOUNT PCB	R142 568 703
STRAIGHT BULKHEAD EDGE MOUNT PBC	R142 567 703
STRAIGHT PCB, ZAMAK BODY	R142 500 740
RIGHT ANGLE BULKHEAD PCB	R142 676 700

## Characteristics

IMPEDANCE	FREQUENCY	VSWR	MATING CYCLES	TEMPERATURE RANGE
75Ω	DC up to 6 GHz	1.05 at 3 GHz (Return loss -32 dB)	1000	-40°C + 85°C

## Material and Plating

PART	COUPLING NUT	BODY	OUTER CONTACT	CENTER CONTACT	INSULATOR
MATERIAL PLATING	POLYMER/BRASS GOLD	BRASS GOLD	BRASS GOLD	BRASS GOLD	PTFE

## Sample Kit

DESCRIPTION	PART NUMBER	PACKAGING
SAMPLE KIT (ONE PIECE)	R142 900 730	SINGLE UNIT

Radiall is making a splash with its beautiful array of HD-BNC cable connectors. These multi-colored boots make color coding simple, and their easy-twist locking action makes fitting into both high-density and recessed bulkhead applications a snap. But, their beauty is more than skin deep. Boasting fast data rates and outstanding electrical performance, nothing beats the their quality. These connectors were made for HD.

