

HD-BNC, BNC, and 1.0/2.3 cable assemblies for broadcast applications



Overview

Amphenol RF fixed length broadcast cable assemblies enable the future of broadcast technologies. With increased bandwidth demands in the entertainment industry, our cable assemblies support the latest high definition transmission systems with guaranteed reliability and performance. All assemblies are available in a variety of standard lengths on industry standard Belden 1694A, Belden 1505A and Belden 1855A. We offer a full line of 75 ohm RF interconnects ideal for broadcast applications. Solutions include BNC, and 1.0/2.3 DIN connectors as well as Amphenol's HD-BNC series supporting data rates of up to 12 Gb/s.

Features and Benefits

- Bayonet and Push-Pull Locking mechanisms offer positive and secure locking while allowing quick and easy disconnect
- Eliminates the need for technicians to create assemblies in the field
- Standard lengths in stock in distribution
- Lower cost than a custom solution

Applications

- High-Definition Transmission
- Surveillance Systems
- Video Routing and Distribution
- Mobile Broadcast Equipment
- Audio/Video Switching Devices
- Digital Signage
- Ultra HD and 4K TV

Amphenol RF

Four Old Newtown Road
Danbury, CT 06810

For more information visit www.amphenolrf.com
or call 800.627.7100

Ordering Information

Straight Plug to Straight Plug Cable Assemblies

| Part Number | Configuration | Cable Type |
|------------------|---|--------------|
| 095-850-155XXXX* | HD-BNC Straight Plug to 1.0/2.3 Straight Plug | Belden 1855A |
| 095-850-156XXXX* | HD-BNC Straight Plug to 1.0/2.3 Straight Plug | Belden 1505A |
| 095-850-157XXXX* | HD-BNC Straight Plug to 1.0/2.3 Straight Plug | Belden 1694A |
| 095-850-158XXXX* | HD-BNC Straight Plug to HD-BNC Straight Plug | Belden 1855A |
| 095-850-159XXXX* | HD-BNC Straight Plug to HD-BNC Straight Plug | Belden 1505A |
| 095-850-160XXXX* | HD-BNC Straight Plug to HD-BNC Straight Plug | Belden 1694A |
| 095-850-130XXXX* | HD-BNC Straight Plug to HD-BNC Straight Plug | Belden 1855A |
| 095-850-162XXXX* | HD-BNC Straight Plug to HD-BNC Straight Plug | Belden 1505A |
| 095-850-131XXXX* | HD-BNC Straight Plug to HD-BNC Straight Plug | Belden 1694A |
| 095-850-164XXXX* | BNC Straight Plug to BNC Straight Plug | Belden 1855A |
| 095-850-165XXXX* | BNC Straight Plug to BNC Straight Plug | Belden 1505A |
| 095-850-166XXXX* | BNC Straight Plug to BNC Straight Plug | Belden 1694A |

*XXXX denotes length code, see reverse side for details

Straight Plug to Straight Jack Cable Assemblies

| Part Number | Configuration | Cable Type | Length |
|-----------------|--|--------------|---------|
| 095-666-44882-1 | HD-BNC Straight Plug to BNC Straight Jack | Belden 1694A | 6 in |
| 095-666-44882-2 | HD-BNC Straight Plug to BNC Straight Jack | Belden 1694A | 12 in |
| 095-666-44882-3 | HD-BNC Straight Plug to BNC Straight Jack | Belden 1694A | 1 Meter |
| 095-666-44883-1 | HD-BNC Straight Plug to BNC Straight Jack | Belden 1855A | 6 in |
| 095-666-44883-2 | HD-BNC Straight Plug to BNC Straight Jack | Belden 1855A | 12 in |
| 095-666-44883-3 | HD-BNC Straight Plug to BNC Straight Jack | Belden 1855A | 1 Meter |
| 095-850-168-006 | 1.0/2.3 Straight Plug to BNC Straight Jack | Belden 1855A | 6 in |
| 095-850-168-012 | 1.0/2.3 Straight Plug to BNC Straight Jack | Belden 1855A | 12 in |
| 095-850-168M100 | 1.0/2.3 Straight Plug to BNC Straight Jack | Belden 1855A | 1 Meter |
| 095-850-169-006 | 1.0/2.3 Straight Plug to BNC Straight Jack | Belden 1694A | 6 in |
| 095-850-169-012 | 1.0/2.3 Straight Plug to BNC Straight Jack | Belden 1694A | 12 in |
| 095-850-169M100 | 1.0/2.3 Straight Plug to BNC Straight Jack | Belden 1694A | 1 Meter |

Available Lengths

Imperial (English) Lengths:

| Length Code | Length in Inches [Meters] |
|-------------|---------------------------|
| -006 | 6.00 [0.152] |
| -012 | 12.00 [0.305] |
| -018 | 18.00 [0.457] |
| -024 | 24.00 [0.610] |
| -036 | 36.00 [0.914] |
| -048 | 48.00 [1.219] |
| -060* | 60.00 [1.524] |
| -072* | 72.00 [1.829] |
| -120* | 120.00 [3.048] |
| -180* | 180.00 [4.572] |
| -300* | 300.00 [7.620] |
| L050* | 600.00 [15.240] |
| L075* | 900.00 [22.860] |
| L100* | 1200.00 [30.480] |

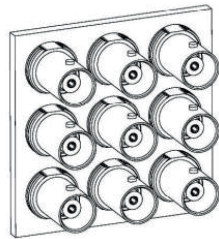
Metric Lengths:

| Length Code | Length in Inches [Meters] |
|-------------|---------------------------|
| M025 | 9.84 [0.250] |
| M050 | 19.69 [0.500] |
| M075 | 29.53 [0.750] |
| M100 | 39.37 [1.000] |
| M125 | 49.21 [1.250] |
| M150 | 59.06 [1.500] |
| M200 | 78.74 [2.000] |
| M300 | 118.11 [3.000] |
| M400 | 157.48 [4.000] |
| M500* | 196.85 [5.000] |
| M10L* | 393.70 [10.000] |
| M20L* | 787.40 [20.000] |
| M30L* | 1181.10 [30.000] |

*Extended lengths standard on Belden 1694A and 1505A

Interface Density

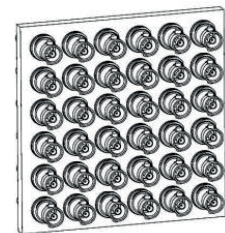
High density RF solutions help reduce equipment size without compromising signal integrity



BNC
15.5mm pitch



1.0/2.3 DIN
10mm pitch
250% Density



HD-BNC
8mm pitch
400% Density

Technical Specifications

Electrical

| | BNC | 1.0/2.3 DIN | HD-BNC |
|-----------------------|-----------------------------|----------------------------|-----------------------------|
| Impedance | True 75Ω | 75Ω | True 75Ω* |
| Frequency Range | DC - 4 GHz | DC - 4 GHz | DC - 6 GHz |
| Insulation Resistance | 5000MΩ | 10000MΩ | 10000MΩ |
| Contact Resistance | Center Contact: =1.5mΩ Max. | Center Contact: <=6mΩ Max. | Center Contact: =5mΩ Max. |
| | Outer Contact: <=0.2mΩ Max. | Outer Contact: <=3mΩ Max. | Outer Contact: <=2.5mΩ Max. |
| DMV | 1500 VRMS | 1000 VRMS | 500 VRMS |
| Typical VSWR (3GHz) | 1:1.15 | 1:1.12 | 1:1.08 |

*HD-BNC performance meets or exceeds SMPTE 424M specifications

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