



BNC

HD-BNC

### Overview

Amphenol RF offers a variety of 75 Ohm isolated BNC and HD-BNC products optimized for 12G. Available in both straight and right-angle configurations, these connectors give system designers additional options for grounding and signal layout, specifically in smaller or densely packaged applications by providing additional signal isolation. These connectors are engineered with a unique dielectric sleeve that creates the isolated design and prevents any body to panel grounding.

12G isolated products feature all the traditional benefits of the legacy high performance connector interfaces including the familiar bayonet coupling mechanism. These products are ideal for 4K and Ultra-HD broadcast applications.

### Features and Benefits

- Provides additional signal isolation for densely packed applications
- Offers application design options for signal and ground lines
- 12 Gbps performance per SMPTE standard
- Familiar bayonet coupling mechanism

### Applications

- Mobile Broadcast
- Patch Panels
- HD Cameras
- Digital Signage
- Video Encoders
- Remote Viewing

### Amphenol RF

Four Old Newtown Road  
Danbury, CT 06810

For more information visit [www.amphenolrf.com](http://www.amphenolrf.com)  
or call 800.627.7100

### Ordering Information

#### Connectors

Part Number	Description
031-70577-12G	BNC Straight PCB Jack Through Hole Bulkhead Rear Mount
031-70578-12G	BNC Right Angle PCB Jack Through Hole Bulkhead Rear Mount
034-1139-12G	HD-BNC Straight PCB Jack Through Hole Bulkhead Rear Mount
034-1140-12G	HD-BNC Right Angle PCB Jack Through Hole Bulkhead Rear Mount

#### Adapters

Part Number	Description
112444-12G	BNC Jack to BNC Jack Straight Bulkhead Mount
034-1110-12G	HD-BNC Jack to HD-BNC Jack Straight Bulkhead Mount

# Amphenol® RF

## Technical Specifications (Connectors)

Electrical		BNC	HD-BNC
Impedance		75Ω	
Frequency Range		DC - 12 GHz	DC - 18 GHz
Return Loss (VSWR)		≥ 20 dB @ DC - 6 GHz	≥ 20 dB @ DC - 6 GHz
		≥ 15 dB @ 6 - 12 GHz	≥ 15 dB @ 6 - 12 GHz
Dielectric Withstanding Voltage		1500 VRMS	1000 VRMS
Insulation Resistance		5000 MΩ	10000 MΩ
Contact Resistance	Center Contact	≤ 1.5 mΩ	≤ 5 mΩ
	Outer Contact	≤ 0.2 mΩ	≤ 2.5 mΩ

Mechanical	
Coupling Style	2-Stud Bayonet Coupling
Mating Cycles	500 Cycles Min.

Environmental	
Temperature Range	-65°C to +165°C
RoHS	Compliant with Exemption 6C

Materials	
Body and Outer Contacts	Brass or Zinc Die-Cast, Nickel or Gold Plated
Male Contact	Brass or Phosphor Bronze, Gold Plated
Female Contact	Beryllium Copper, Gold Plated
Crimp Ferrule	Brass, Nickel Plated
Spring	Stainless Steel, Nickel Plated
Insulator	PTFE
Gasket	Silicone Rubber
Isolation Bushing	Delrin

Note: Technical specifications are typical and may vary by specific part number. See component drawing.

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