



034-1030-12G

## Overview

Amphenol RF's line of high-frequency BNC and HD-BNC connectors support data transfer rates of up to 12Gb/s enabling the transmission of high resolution uncompressed video signals. These connectors provide 4K and Ultra-HD quality signals in miniature and high-density sub-miniature package sizes, with the familiar feel of the BNC mating system.

12G-SDI 75 Ω products are available as PCB connectors with edge-mount, straight, or right-angle configurations, or as cable connectors for industry standard Belden 1505A, 1694A, or 1855A cable.

## Features and Benefits

- 12 Gb/s performance per SMPTE standard
- One channel for 4K or Ultra-HD quality
- Variety of PCB and cable products
- Familiar BNC bayonet coupling mechanism

## Applications

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

## Amphenol RF

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

## Ordering Information



031-70526-XX 031-70530

### BNC 75 Ohm PCB Connectors

031-70526-11	Edge Mount, 0.062" PCB, 0.625" Hexnut
031-70526-13	Edge Mount, 0.062" PCB, 0.591" Spanner Nut
031-70526-21	Edge Mount, 0.084" PCB, 0.625" Hex Nut
031-70526-23	Edge Mount, 0.084" PCB, 0.591" Spanner Nut
031-70530	Straight, Through-Hole Mount



11295X-11

### BNC 75 Ohm Cable Connectors

112951-11	Crimp Plug, Belden 1505A Cable
112955-11	Crimp Plug, Belden 1855A Cable
112957-11	Crimp Plug, Belden 1694A Cable



34-1018-12G

### HD-BNC 75 Ohm PCB Connectors

034-1018-12G	Edge Mount, Bulkhead
034-1030-12G	Right-Angle, Thru-hole, Bulkhead
034-1065-12G	Straight, 3-leg Thru-hole



034-1025-12G

### HD-BNC 75 Ohm Cable Connectors

034-1017-12G	HD-BNC Crimp Plug, Belden 1694A
034-1025-12G	HD-BNC Crimp Plug, Belden 1505A
034-1026-12G	HD-BNC Crimp Plug, Belden 1855A

## 12G High-Frequency BNC & HD-BNC Connectors for Broadcast

Ultra High Definition Video (also known as “Ultra HD” or “4K UHD”) requires an interconnect system that can transfer data at a rate of up to 12 Gbps. Using non-12G BNC connectors, this could require 2 or 4 channels.

Amphenol RF’s line of 12G BNC and HD-BNC products are optimized for 4K Ultra HD Broadcast, providing crystal clear signal transmission on a single channel. These connectors are designed for 12G-SDI video applications, and come in a variety of PCB mounting and cable terminations. Peak performance can be reached when these PCB and cable connectors are used together.

Electrical		BNC	HD-BNC
Impedance		75 Ω	
Frequency Range		DC - 12 GHz	DC - 18 GHz
Return Loss		≥ 30 dB @ DC - 6 GHz	
		≥ 15 dB @ DC- 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	
Mating	2-stud bayonet coupling
Mating Cycles	500 cycles min.
Cable Attachment	Crimp
Assembly Tool	CTL-17

Environmental	
Temperature range	-65 °C to +165 °C
RoHS	Compliant with exemption 6C

Material	
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
Insulator	PTFE
Gasket	Silicone rubber

### Also Available:



Broadcast Cable Assemblies



Between Series and In-Series Adapters