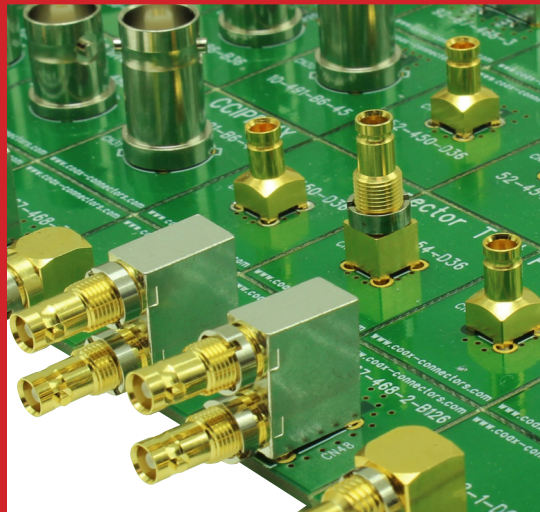


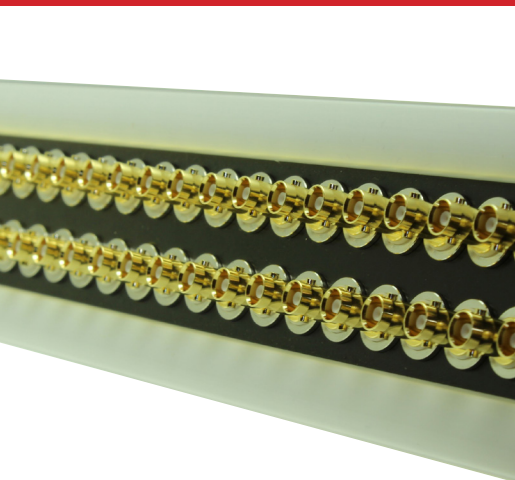
# COAX

CONNECTORS LTD

## NAB Show Edition



[www.coax-connectors.com](http://www.coax-connectors.com)





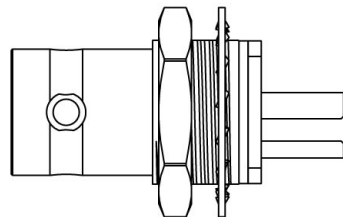
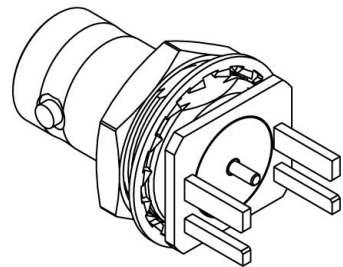
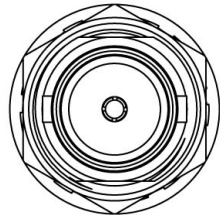
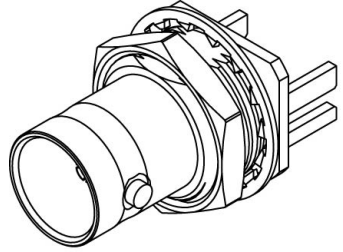
## Contact COAX

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# About COAX Connectors

COAX Connectors is based in the UK just a few miles from the centre of London. We specialise in the design and manufacture of high-performance 50 and 75 ohm RF connectors and cable assemblies, shipping nationally and globally to customers and approved distributors.

For the broadcast market we offer a wide range of 75 ohm products capable of delivering high bandwidth performance over a single channel at 12GHz and beyond, exceeding SMPTE standard ST2082-1:2015 (12G), and with performance data to 18GHz. We are also pleased to now be able to offer 18GHz connectors which are BS EN 61169-63 compliant such as the NEW BNC Metal Thread Insulated Bulkhead Jack to Jack 18G Adaptor featured overleaf.

Our BNC, KORUS BNC, Micro BNC (HD-BNC), and DIN 1.0/2.3 ranges offer 12G connectors for 4K & 8K Ultra HD and 12G-SDI video applications, including cable mount connectors, panel mount connectors, PCB connectors, and adaptors.

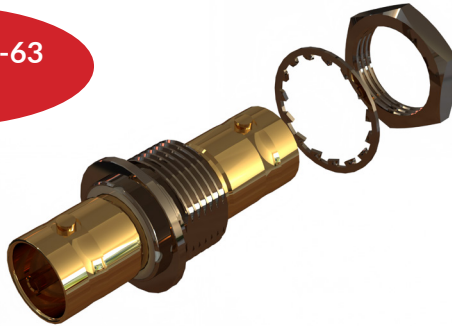
In addition to our off the shelf connectors, for bespoke solutions COAX's design department can work with you from problem solving, through design concepts and prototyping, to supplying a fully qualified production part.

This brochure features just a few of our latest connectors. For full details of our products and services please visit our website. Here you will find product images and descriptions, connector specifications, cable compatibility, and outline PDFs provided as standard for each connector, and a growing number of STEP files.



# BNC Metal Thread Insulated Bulkhead Jack to Jack 18G Adaptor

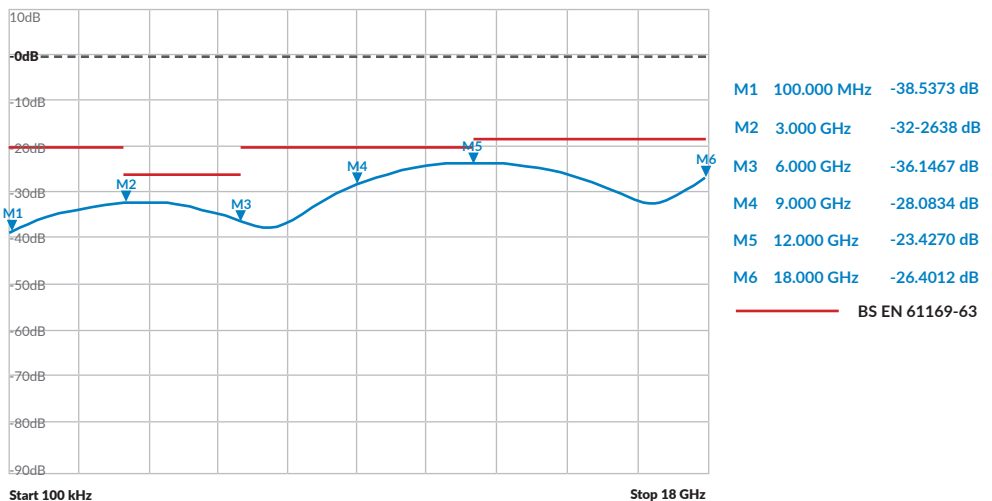
BS EN 61169-63  
compliant



## Part No. 10-505-D126

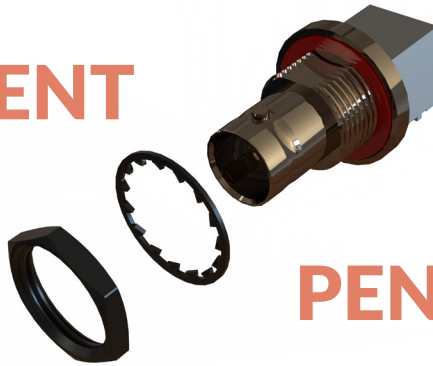
COAX's BNC True 75 ohm metal thread insulated Jack to Jack Adaptor is suitable for 18G applications, It features a gold centre contact and a gold outer contact and is supplied with a 0.59" (15mm) AF hexagon nut and spring washer. This adaptor has been designed to comply with the performance requirements of BS EN 61169-63.

## Return Loss Graph



# BNC PCB Right Angle Flange Bulkhead Jack 75 Ohm 12G Tin/Nickel

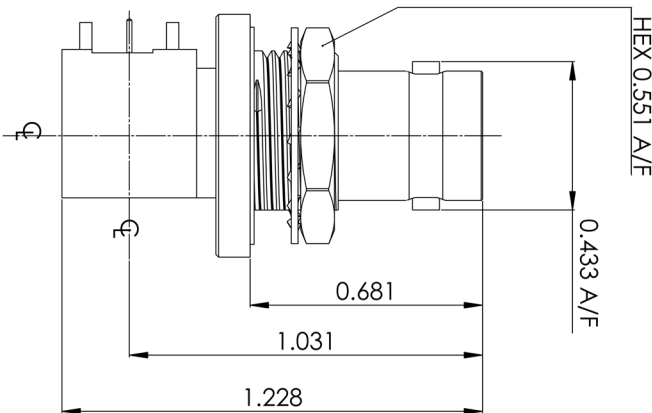
**PATENT**



**PENDING**

## Part No. 10-470-1-BSn126

This unique BNC from COAX, with patent pending, will soon be added to the list of COAX Connectors patented designs. The BNC True 75 Ohm 12G Right Angle PCB Flange Mount Bulkhead Jack has been designed to deliver more consistent performance for applications up to 12GHz, than other 12G right angle BNC connectors currently on the market. It has gold plated one piece centre contact, hard wearing nickel plated interface for repeated mating, and tin plated PCB mounting outer contact for easy soldering onto a PCB.



# BNC - 75 ohm 12G



COAX's true 75ohm 12G BNC connectors permit 12G transmission over a single channel with low return loss. Configurations include: straight plugs, straight jacks, right angle plugs, bulkhead jacks, PCB end launch jacks, and adaptors.

BNCs feature a simple bayonet coupling requiring only a quarter turn to connect or disconnect, and provide a secure connection.

COAX's 12G BNC connectors have been specifically designed to handle 4K, SMPTE ST2082-1 transmissions. They come in either standard nickel, or in the case of the KORUS range, distinctive black coupling nuts together with gold plated inner and outer contacts. 'KORUS' connectors can be used to easily distinguish new 12G circuits from the existing infrastructure.

Cable plugs are available to suit a wide range of industry standard cables with new connectors regularly being developed to fit the latest cables, and PCB connectors come in varying leg lengths to accommodate different board thicknesses.

Where a standard part doesn't precisely match your requirement the COAX design team can develop a bespoke connector for you.



View COAX's full range of BNC connectors.



# Micro BNC (HD-BNC) - 75 ohm 12G



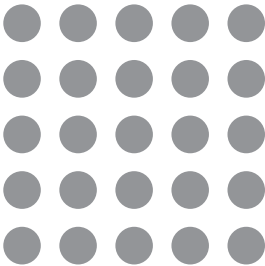
Micro BNC (also known as HD BNC) connectors are used extensively in the Broadcast industry as a smaller alternative to the standard BNC connector. Where high performance in a high density package is required, the Micro BNC is the ideal solution. Micro BNC connectors are fully intermateable and interchangeable with other series of HD-BNC/High density BNC.

These Micro BNCs meet the requirements of SMPTE ST 2082-1, for use in 12G UHD-SDI and Ultra HD 4K applications.

With a diameter of only 0.31" (7.8mm), mounting density is increased by more than 4 times when compared with a standard BNC. If space allows, the extended coupling nut (US Patent No. 9,071,013) enables the connectors to be mated and unmated without the use of a tool.

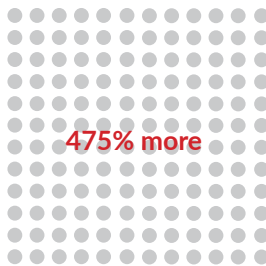
## Standard BNC

3.8" (96mm) Square Area



25 Connectors

## Micro BNC (HD BNC)



475% more

144 Connectors

0.315" (8mm) Pitch

View COAX's full range of Micro BNC connectors.







# DIN 1.0/2.3 - 75 ohm

Due to their compact size and easy to use Push-Pull coupling these 75ohm micro miniature connectors are sometimes used in the broadcast industry as a space saving alternative to the BNC.

The Push-Pull plug allows connectors to be quickly and securely connected by simply pushing onto the mating jack; removal is by sliding back the coupling sleeve with fingers, or a removal tool where space is restricted. Bulkhead mount jacks are fitted with a circular slotted locking nut.



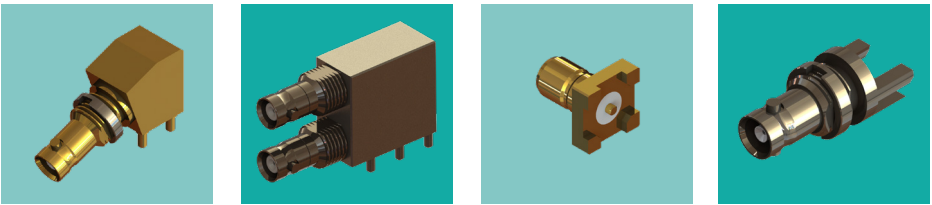
View COAX's full range of  
DIN 1.0/2.3 connectors.



# Product Development

With decades of experience in design, standards development, test and manufacturing within the global connector industry, the COAX design team works closely with customers and industry partners at all levels to provide innovative, cost effective, product solutions.

COAX remains consistently at the forefront of the RF connector design, continually innovating and developing new high performance products. Using the latest Solidworks 3D CAD software, backed up with an in-house test laboratory designs are proven using both virtual and physical methodologies to ensure the result is a robust and cost-effective product.



Where a bespoke solution is required COAX has the design capability to deliver a complete end to end service to satisfy your RF connector needs. Our designers can work with you from initial problem solving, through design concepts and prototyping, to supplying a qualified production part.

## Design services from COAX:

- RF connector design
- Cable assembly design
- Engineered cost reductions
- Rapid prototyping
- Virtual prototyping
- Additive manufacturing
- Test & Qualification
- Re-design of obsolete products
- Reverse engineering
- Interconnect consultancy
- Interconnect product visualisation

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