

## Broadcast connector range.



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



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## In this catalogue.

- New Connectors
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## Colour coded index.

Helping you to find the connector you need quickly.

## More information.

Increased detail to help you choose the right connector.

## Go online or call.

We are always here to help, at [www.coax-connectors.com](http://www.coax-connectors.com) or call +44 (0)20 8538 9090.

# Welcome to COAX.

COAX Connectors Ltd is a leading UK designer, manufacturer and supplier of high performance RF connectors.

Our products are underpinned by a high level of design expertise and an unfaltering commitment to service and quality. Having gone through a rigorous development process and extensive testing, the refined design of a COAX connector is sure to deliver the reliable and enduring performance your business needs.

Many of our connectors are available from stock for next day delivery, and 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.

To complement our extensive range of RF connectors we offer a cable assembly service with rapid turnaround. Using this service not only saves you time, but also reduces the need for tooling, and ensures the correct method of termination.

With many years experience of working with customers and industry partners across various industries, COAX is well placed to assist with all your RF interconnectivity requirements. We look forward to working with you on your next project.

**To discuss your RF connector or cable assembly requirement call +44 (0)20 8538 9090 or email: [info@coax-connectors.com](mailto:info@coax-connectors.com)**



**COAX**  
CONNECTORS LTD

## COAX in Broadcast.

For many years, COAX Connectors Ltd., have focused on developing RF connector solutions to support the increasing demands of the Broadcast equipment and installer markets.

Since the advent of digital broadcast transmissions, the industry has evolved, initially to provide 3D and High Definition picture quality and more recently 8K Ultra High Definition.

To handle the increased bandwidth of these systems, the performance of the interconnecting cables and connectors must be compatible or signal distortion and loss will occur.

Building on our decades of experience developing connectors for digital telecommunications networks, COAX have brought that understanding to the Broadcast industry and now offer some of the best performing products in the market. By redesigning industry stalwarts like BNC and introducing new series such as 0.4/2.5 and Micro BNC, COAX are your ideal partner for the future of Broadcast.

### 12GHz and Korus BNC

In the following pages, you will find mention of our 12GHz and KORUS 75ohm connectors, an example of where a standard family of BNC connectors has been re-developed to meet the needs of the latest Ultra High Definition systems and cables and allow the transmission of high frequency data with minimal loss.

### Micro BNC (HD BNC)

As equipment footprints reduce, Micro BNC has been developed to meet the demand for smaller 75ohm RF connectors, to save space, yet still provide low loss transmission at high broadcast frequencies. Micro BNC, in certain parts of the industry, is referred to as HD BNC. Whilst being compatible and intermateable, the Micro BNC from COAX has a unique and patented coupling nut (US Patent No. 9,071.013) that is extended at the back to make handling easier in confined spaces. Having been tested to 18GHz Micro BNC are suitable for 12G transmissions.

### The Future

COAX Connectors are aware that the needs of the Broadcast market continue to advance, the result being that today's interconnect may not suit the future. COAX continue to investigate and develop their range of connectors, please contact us; make us your coaxial partner.

## Cable assembly service.

### What do you do if you need cable assemblies in a hurry?

To complement our extensive range of RF connectors we are pleased to offer a cable assembly service with rapid turnaround. Our service avoids the inconvenience of having to make cable assemblies yourself. Not only can it save you time, it also reduces the need for tooling and testing, eliminates scrap, and ensures correct method of termination.

Whether you want us to do everything for you, or whether you just need us to cut your cables to length ready prepared for your termination we can assist.

Contact us on +44 (0)20 8538 9090 to discuss your exact requirements.



## Quality, performance and reliability by design.

Not all connectors are designed and manufactured to the same standard. We do not believe that our customers should have to compromise on quality, performance, or reliability.

Our commitment to quality goes well beyond our accreditations to ISO 9001:2008 and ISO 14001:2004.

From the outset our connectors are designed and developed to perform to exacting standards. Using SolidWorks CAD software, backed up with an in-house test laboratory including Rohde & Schwarz and HP network analysers, designs are proven using DFMA, FMEA and similar tools.

Our rigorous testing processes, which include high frequency testing, thermal shock testing, and accelerated age testing, ensure that the end result is a robust, cost effective product.

The COAX Connectors design department is staffed by a team of professionals who have decades of experience within leading global connector companies. On a daily basis they work closely with customers and industry partners to provide innovative product solutions.

## Design services.

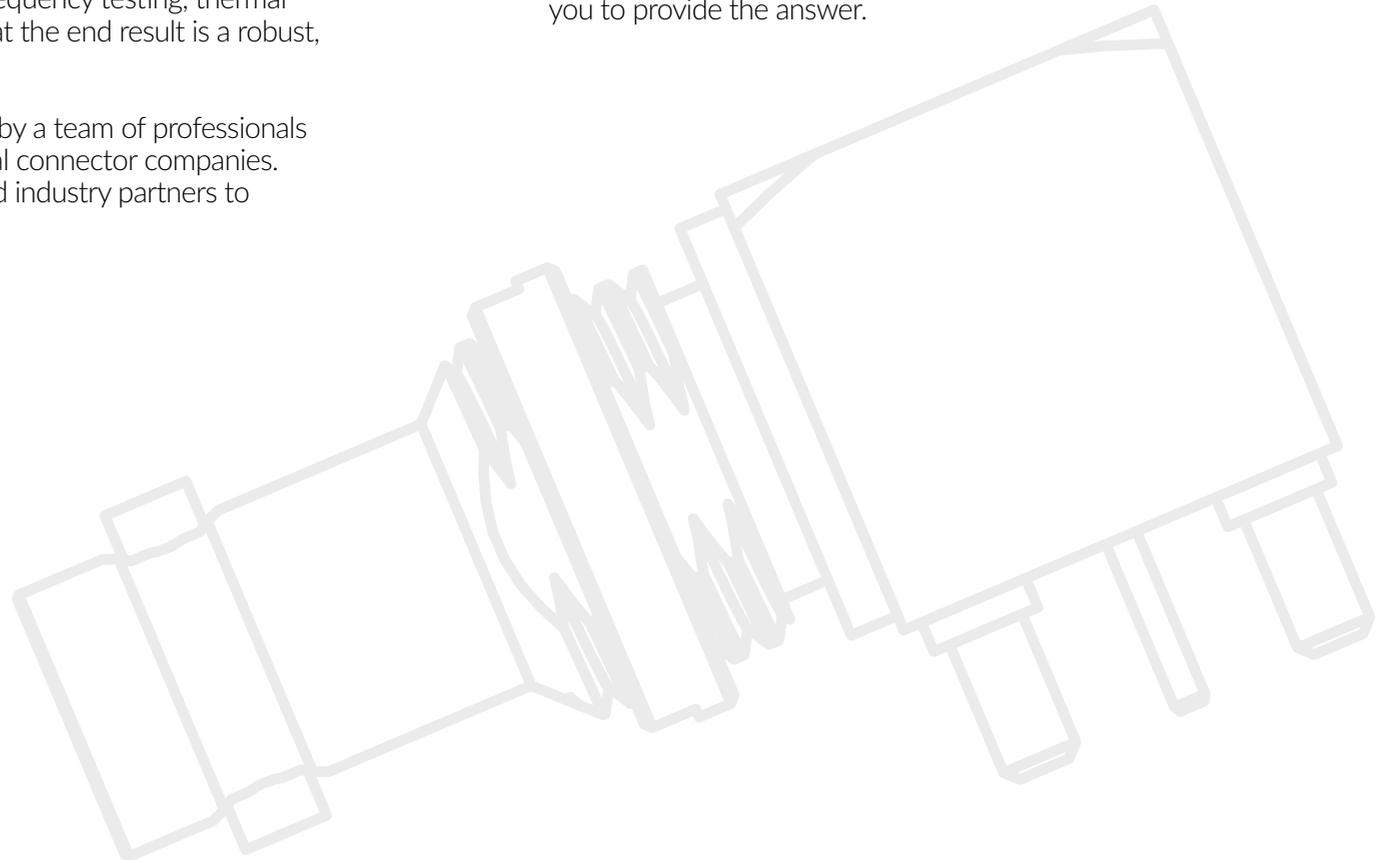
Whether you require fast turnaround of a bespoke connector for a specific application or a simple re-work of an existing design, our design department have the technical expertise to assist. Typical projects undertaken include:

- RF connector design
- Cable assembly design
- Engineered cost reductions
- Rapid prototyping
- Test and Qualification
- Re-design of obsolete products
- Reverse engineering
- Interconnect consultancy

Whatever your RF interconnectivity requirement, our designers can work with you to provide the answer.



Registration No. 95Q13579 & 92E13579



# About this catalogue.

This catalogue shows only a popular selection of connectors available from COAX.

Supplementary technical information and performance data for products is available at

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

## Cable connector selection.

On our product pages and in the appendix, we list an extensive range of cables, from a variety of manufacturers, that are suitable for use with our connectors.

All our cable connector part numbers include a 2 letter code indicating a 'Cable Group'. These cable groups include the cables that we know will fit any specific connector, the cable groups are listed in the appendix.

For example, the SMA connector with the part number 30-005-D3-AD is suitable for use with cable group 'AD' The appendix lists these cable groups together with the basic dimensions and materials of these cables.

In the appendix you will find cable group AD listed as follows -

Cable Type	Impedance	Jacket	Dielectric		Centre Conductor		Shielding
	$\Omega$	Diameter mm	Material	Diameter mm	Material	Diameter mm	
<b>Cable Group AD</b>							
KX22	50	2.5	PTFE	1.52	SCCS	0.51	Cu Braid
KX3	50	2.54	PE	1.5	CCS	0.48	Cu Braid
RG174	50	2.79	PE	1.52	BCCS	0.48	Cu Braid
RG188	50	2.67	PTFE	1.52	SCCS	0.51	Cu Braid
RG316	50	2.49	PTFE	1.52	SCCS	0.51	Cu Braid
Times LMR@100	50	2.79	PE	1.52	BCCS	0.46	Foil & Braid
URM95	50	2.3	PE	1.5	SCCS	0.46	Cu Braid
WBC100	50	2.67	PE	1.52	CCS	0.46	Foil & Braid

Important note: Cable manufacturers are continuously adding cables and updating their ranges so the cables listed are only a guide.

Connectors should be assembled to the cable by following the recommended assembly procedure. The assembly procedure number is listed against each connector, for example the connector mentioned above should be terminated according to APO01, which can be found at [www.coax-connectors.com/ap](http://www.coax-connectors.com/ap) or by contacting us directly.



Please note that any connector and cable combination should be tested before finalising your design or application to confirm suitability.

for more information visit: [www.coax-connectors.com](http://www.coax-connectors.com)



# BNC 75 ohm connectors.

COAX Connectors offer an extensive range of standard 75 ohm BNCs, together with Mini and Micro (aka HD-BNC) series. Many BNCs offered to the market as '75 ohm' are 50 ohm connectors that fit to 75 ohm cables and offer only limited RF and digital transmission capability. The True 75 ohm BNCs offered by COAX Connectors include the gold/black 'KORUS' range (see page 14) which are designed to perform at frequencies up to 12GHz and beyond.

Our 75 ohm BNCs are widely used in broadcast applications for the transmission of UHD-SDI, SMPTE ST 2082-1 and 4K & 8K picture quality.

75 ohm BNCs are also widely used in telecommunications and other general purpose applications all around the world, and our range will fit a wide range of popular cables using either crimp, clamp and Twist-On assembly methods.

A variety of options for panel and PCB mounting are available including the popular edge mounted styles.

## Key features:

- True 75 ohm options
- Up to 12 GHz
- Wide range of cables covered
- Cable assemblies on request
- Versions to suit 12G for UHD-SDI
- PCB Connector with light pipe
- Machined plug outer contact for smooth mating
- High performance versions PRBS10 & 15 tested with zero bit errors

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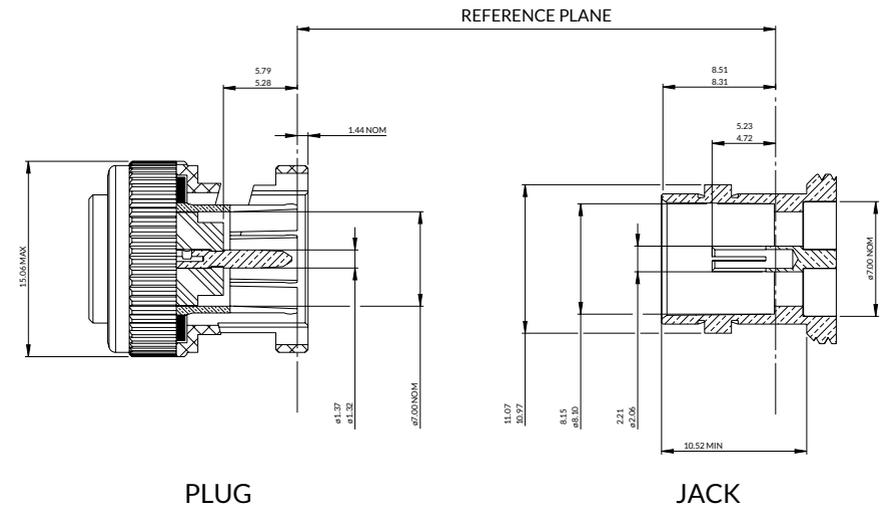
## New connectors.

We are regularly designing new connectors to enhance our range, if you can not find what you need, please contact us.

## Specification.

Electrical Specification		Environmental Specification	
Impedance	75 ohm	Operation temperature	-55 to +155 Deg C
Frequency Range	Up to 12GHz	IP Rating (Mated)	IP64
Dielectric Withstand Voltage	1500 Veff		
Insulation Resistance	5000 M-ohm		
Mechanical Specification		Materials	
Design Standard	IEC-61169-8	Centre Contact	Brass/Phosphor Bronze
RoHS Compliant	Yes	Outer Contact	Brass
Mating Cycles	500	Insulator	PTFE/Delrin
Contact Retention	15N min	Bayonet Cap	Zinc/Brass
Mating Force	<20N max	Centre Contact Plating	Gold
Uncoupling Force	>2.2N min	Outer Contact Plating	Nickel/Gold
The above values are typical. Please check product data sheets for full details - see <a href="http://www.coax-connectors.com">www.coax-connectors.com</a> or call +44(0)20 8538 9090			

## BNC 75 ohm interface.



### 3GHz crimp plugs.



The extensive range of 75 ohm BNCs includes a selection rated for use up to 3GHz. These connectors have a nickel plated outer contact and offer a lower cost solution when compared to the 12GHz versions with gold plated outer contacts. These True 75ohm connectors are suitable for high performance applications in Broadcast and Telecom, or in other communications equipment where a true 75ohm transmission line is required.

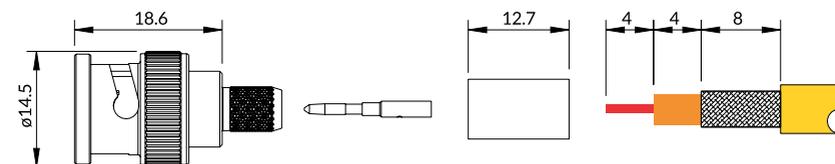
Inner contacts are gold plated and in addition to the standard bright nickel plated coupling nut, many versions are available with the distinctive black nickel plated coupling nut, see the table for details.

Outwardly, the True 75 ohm BNCs may not look any different from a general purpose BNC, however what is inside makes the difference. The design of the internal dimensions and the connector construction are carefully optimised to make our True 75 ohm BNC suitable for more demanding applications. Data sheets giving detailed performance of individual connectors are available on request or can be found on our website.

Part Number	Typical Cable Types (for more visit website)	Cable Group	Centre Contact mm	Outer Contact mm	Features
10-005-B36-AB	See appendix for details on page 119	AB	1.07 Sq	3.25 Hex	
10-005-T36-AB	See appendix for details on page 119	AB	1.07 Sq	3.25 Hex	Black Coupling Nut
10-005-B36-AI	See appendix for details on page 120	AI	1.72 Hex	6.50 Hex	
10-005-T36-AI	See appendix for details on page 120	AI	1.72 Hex	6.50 Hex	Black Coupling Nut
10-005-B36-BC	See appendix for details on page 121	BC	1.46 Hex	6.50 Hex	**
10-005-T36-BC	See appendix for details on page 121	BC	1.46 Hex	5.41 Hex	Black Coupling Nut
10-005-B36-BD	See appendix for details on page 122	BD	1.46 Hex	4.52 Hex	**
10-005-B36-BF	See appendix for details on page 122	BF	1.46 Hex	5.18 Hex	
10-005-B36-BG	See appendix for details on page 122	BG	1.07 Sq	3.25 Hex	
10-005-B36-BH	See appendix for details on page 122	BH	1.72 Sq	4.52 Hex	
10-005-B36-CY	See appendix for details on page 123	CY	1.72 Hex	6.50 Hex	
10-005-B36-EF1	See appendix for details on page 124	EF	1.07 Sq	4.52 Hex	US Crimp size
10-005-B36-EG	See appendix for details on page 124	EG	1.72 Hex	8.23 Hex	

Part Number	Typical Cable Types (for more visit website)	Cable Group	Centre Contact mm	Outer Contact mm	Features
10-005-T36-EG	See appendix for details on page 124	EG	1.72 Hex	8.23 Hex	Black Coupling Nut
10-005-B36-FA	See appendix for details on page 124	FA	1.72 Hex	5.41 Hex	**
10-005-T36-FA	See appendix for details on page 124	FA	1.72 Hex	5.41 Hex	Black Coupling Nut
10-005-B36-FB	See appendix for details on page 125	FB	1.72 Hex	6.50 Hex	
10-005-T36-FB	See appendix for details on page 125	FB	1.72 Hex	6.50 Hex	Black Coupling Nut
10-005-B36-FB1	See appendix for details on page 125	FB	1.07 Hex	6.48 Hex	US Crimp Size
10-005-B36-FC	See appendix for details on page 125	FC	1.72 Hex	8.23 Hex	**
10-005-B36-FC1	See appendix for details on page 125	FC	1.07 Sq	7.06 Hex	US Crimp Size
10-005-T36-FC	See appendix for details on page 125	FC	1.72 Hex	8.23 Hex	Black Coupling Nut
10-005-B36-FD	See appendix for details on page 126	FD	2.54 Hex	10.9 Hex	
10-005-B36-FE	See appendix for details on page 127	FE	1.72 Hex	6.50 Hex	
10-005-B36-FF	See appendix for details on page 127	FF	1.72 Hex	8.23 Hex	
10-005-B36-FH	See appendix for details on page 127	FH	2.54 Hex	10.9 Hex	

\*\*Also available in bulk packs



Assembly Procedure - AP001 (AP019 for 10-005-W66-FI) see [www.coax-connectors.com/ap](http://www.coax-connectors.com/ap) for details

See following pages for more BNC plugs

Assembly Procedure - AP001 & AP002 (4 Part), see [www.coax-connectors.com/ap](http://www.coax-connectors.com/ap) for details



## 12GHz crimp plugs.

These True 75ohm connectors are designed for use up to 12GHz. Inner and outer contacts are gold plated, coupling nuts are bright nickel plated, or in the case of the 'Korus' range they are black nickel. The crimp sleeve and inner contact are annealed to provide optimum crimping performance, and designs to suit the wide variety of cables listed, are available.

Outwardly, the True 75 ohm BNCs may not look any different from a general purpose BNC, however what is inside makes the difference. The design of the internal dimensions and the connector construction are carefully optimised to make our True 75 ohm BNC suitable for the demands of 'High Definition and Beyond'. Detailed performance data is available on request.

Part Number	Typical Cable Types (for more visit website)	Cable Group	Centre Contact mm	Outer Contact mm	Features
<b>12GHz Crimp Plugs - True 75 ohm, including 'KORUS' range</b>					
10-005-D126-EF1	See appendix for details on page 124	EF	1.07 Square	4.52 Hex	Nickel Coupling Nut US Crimp Size
10-005-W126-EF1	See appendix for details on page 124	EF	1.07 Square	4.52 Hex	'KORUS' (Black Coupling Nut) US Crimp Size
10-005-D126-FA	See appendix for details on page 124	FA	1.72 Hex	5.41 Hex	Nickel Coupling Nut
10-005-W126-FA	See appendix for details on page 124	FA	1.72 Hex	5.41 Hex	'KORUS' (Black Coupling Nut)
10-005-D126-FB1	See appendix for details on page 125	FB	1.07 Square	6.48 Hex	Nickel Coupling Nut US Crimp Size
10-005-D126-FB	See appendix for details on page 125	FB	1.72 Hex	6.50 Hex	Nickel Coupling Nut
10-005-W126-FB	See appendix for details on page 125	FB	1.72 Hex	6.50 Hex	'KORUS' (Black Coupling Nut)
10-005-W126-FB1	See appendix for details on page 125	FB	1.07 Square	6.48 Hex	'KORUS' (Black Coupling Nut) US Crimp Size
10-005-D126-FC	See appendix for details on page 125	FC	1.72 Hex	8.23 Hex	Nickel Coupling Nut

Part Number	Typical Cable Types (for more visit website)	Cable Group	Centre Contact mm	Outer Contact mm	Features
10-005-D126-FC1	See appendix for details on page 125	FC	1.07 Square	7.06 Hex	Nickel Coupling Nut US Crimp Size
10-005-W126-FC	See appendix for details on page 125	FC	1.72 Hex	8.23 Hex	'KORUS' (Black Coupling Nut)
10-005-W126-FC1	See appendix for details on page 125	FC	1.07 Square	7.06 Hex	'KORUS' (Black Coupling Nut) US Crimp Size
10-005-W126-FD	See appendix for details on page 126	FD	2.54 Hex	10.9 Hex	'KORUS' (Black Coupling Nut)
10-005-W126-FI	See appendix for details on page 127	FI	2.54 Hex	10.9 Hex	'KORUS' (Black Coupling Nut)
10-005-W126-FF	See appendix for details on page 126	FF	1.72 Hex	8.23 Hex	'KORUS' (Black Coupling Nut)



**KORUS**  
the future of 75 ohm  
BNC Connectors

# KORUS

the future of 75 ohm BNC connectors

## High Performance 75 ohm BNC Connectors.

Whether you're looking for 12G connectors for Ultra HD, or to future proof existing infrastructure, the 'KORUS' range of BNCs from COAX is the answer.

The industry leading 'low loss' performance of the next generation KORUS range permits high data signal transmission without distortion. With outstanding True 75 ohm performance for 3G and 12G the KORUS range boasts many 12G parts which exceed the requirements of SMPTE standard ST2082-1.

PRBS10 & 15 testing has been carried out using our Korus BNC plugs to provide a 12G single channel at maximum transmission distances for many standard broadcast cables with zero bit error results. KORUS connectors are therefore the perfect choice for use in new UHD-SDI systems.

Finished in distinctive gold and black with gold plated inner and outer contacts, the KORUS range covers straight and right angle plugs, as well as straight jacks for popular industry standard cables, bulkhead jacks, PBC end launch jacks, and adaptors.

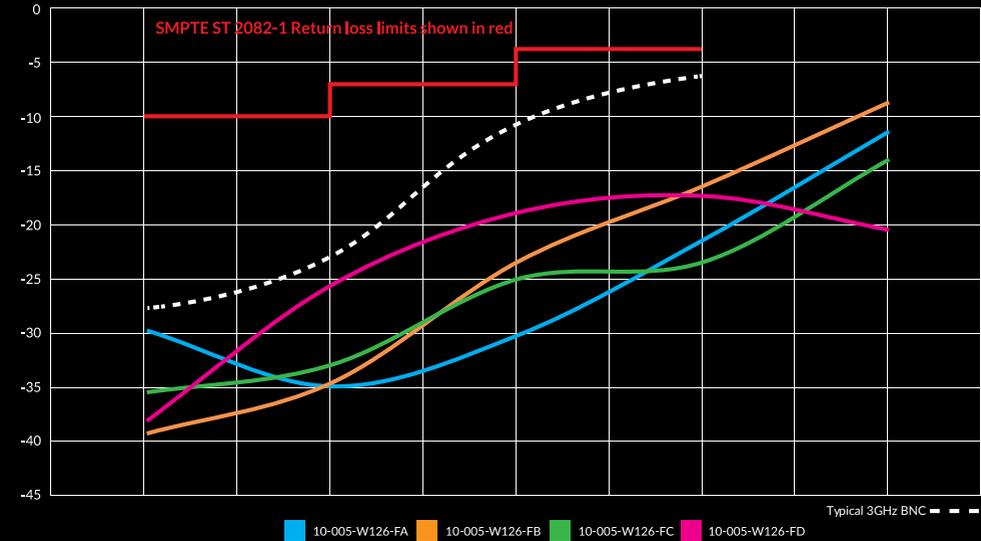
KORUS connectors are widely used in broadcast applications for the transmission of HD-SDI 1080p, meeting previous SMPTE 292M & 424M standards and 4K & 8K Ultra HD picture quality.

### Key features:

- True 75 ohm - Low loss beyond 12GHz
- Distinctive Gold /Black
- 12G-SDI
- Zero bit errors when tested to PRBS10 & 15
- 4K & 8K Ultra HD



## KORUS plug return loss Now tested to 18GHz



### Typical return loss.

	3GHz	6GHz	12GHz	18GHz
<b>10-005-W126-FA</b>	-34.94	-30.2	-21.36	-11.31
For cable types: Belden 1855ENH, 1855A, Draka 0.6/2.8 AF, Bryant BD SD01, Canford SDV, Percon VK5, Argosy Image360				
<b>10-005-W126-FB</b>	-34.58	-23.39	-16.36	-8.61
For cable types: Belden 1505A, Draka 0.8/3.7 AF, Bryant BD SD50A, Percon VK6, Argosy Image720				
<b>10-005-W126-FC</b>	-32.92	-24.99	-23.41	-13.91
For cable types: Belden 1694A, 1694F, Draka 1.0/4.8 AF, Bryant BD SD11, Canford SDV-L, Percon VK7, VK&&, Argosy Image 1000				
<b>10-005-W126-FD</b>	-34.94	-30.2	-21.36	-11.31
For cable types: Belden 7731A, Draka 1.6/7.3 AF, Bryant BD SD70, Argosy Image2000				

For details of the connectors featured above, see page 12 & 13

Need help? Call us today: +44 (0)20 8538 9090  
or for more information visit: [www.coax-connectors.com](http://www.coax-connectors.com)

## Straight solder/clamp and Twist-On plugs.



Figure 1

Figure 2

Solder/Clamp plugs with Top Hat are simple to terminate; strip the cable to the dimensions shown, solder the contact and follow the assembly instructions to prepare the braid and clamp the jacket, complete the termination.

Twist-On BNC plugs do not require any special tooling to assemble them onto a cable. Simply strip the cable to the dimensions shown and follow the assembly instructions to complete the simple termination.

Centre contacts are gold plated, other body parts are nickel plated.

Part Number	Typical Cable Types (for more visit website)	Cable Group	Centre Contact mm	Outer Contact mm	Features
10-001-A0-AI	See appendix for details on page 120	AI	Solder	Clamp	Figure 1
10-004-A0-AI	See appendix for details on page 120	AI	Twist-On	Twist-On	Figure 2
10-004-A0-AJ	See appendix for details on page 120	AJ	Twist-On	Twist-On	Figure 2
10-004-A0-CB	See appendix for details on page 122	CB	Twist-On	Twist-On	Figure 2
10-004-A0-CD	See appendix for details on page 122	CD	Twist-On	Twist-On	Figure 2
10-021-A0-CA	See appendix for details on page 122	CA	Solder	Secure-Fit not shown, ask for data sheet	

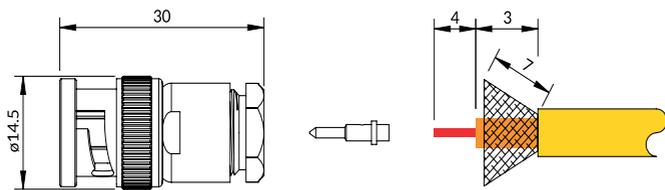


Figure 1

Assembly Procedure - AP010, see [www.coax-connectors.com/ap](http://www.coax-connectors.com/ap) for details

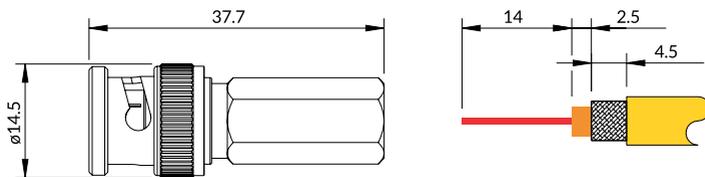


Figure 2

Assembly Procedure - AP043, see [www.coax-connectors.com/ap](http://www.coax-connectors.com/ap) for details

## Right angle crimp plug.

Right angle full crimp plugs feature a 2 part gold plated centre contact. The loose contact is crimped to the cable and when inserted into the rear connector body it mates with the fixed contact. This design offers improved RF performance as the right angle portion of the contact is swept to provide a smooth transition.

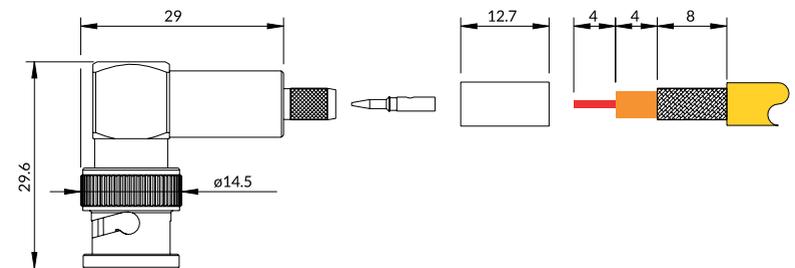
Included in this section are 12GHz 'KORUS' versions that meet SMPTE ST2082-1 requirements for 12G broadcast.

See table below for crimp sizes; suitable tooling can be found in the Accessories & Tooling section of this catalogue.



Part Number	Typical Cable Types (for more visit website)	Cable Group	Centre Contact mm	Outer Contact mm	Features
10-104-B66-AB	See appendix for details on page 119	AB	1.07 Sq	3.25 Hex	
10-104-W66-AB	See appendix for details on page 119	AB	1.07 Sq	3.25 Hex	'KORUS' (Black Coupling Nut)
10-104-A0-AI	See appendix for details on page 120	AI	1.72 Hex	6.50 Hex	
10-104-A0-BC	See appendix for details on page 121	BC	1.46 Hex	6.50 Hex	
10-104-A0-BD	See appendix for details on page 122	BD	1.46 Hex	4.52 Hex	
10-104-A0-FA	See appendix for details on page 124	FA	1.72 Hex	5.41 Hex	
10-104-W66-FA	See appendix for details on page 124	FA	1.72 Hex	5.41 Hex	'KORUS' (Black Coupling Nut)
10-104-W66-FB	See appendix for details on page 125	FB	1.72 Hex	6.50 Hex	'KORUS' (Black Coupling Nut)
10-104-W66-FC	See appendix for details on page 125	FC	1.72 Hex	8.23 Hex	'KORUS' (Black Coupling Nut)
10-106-A0-AB	See appendix for details on page 119	AB	1.72 Hex	5.41 Hex	4 Part*

\*Items marked '4 Part' are for small cables and include a supporting sleeve for reliable assembly.



Assembly Procedure - AP019 AP002 (4 Part), see [www.coax-connectors.com/ap](http://www.coax-connectors.com/ap) for details

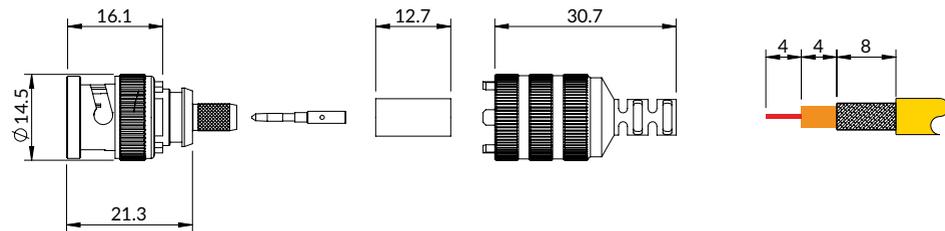
## 6GHz Easy-Grip straight crimp plug

BNC connectors are often mounted in difficult to access and closely spaced locations. Easy-Grip crimp plugs have an extended coupling nut that provides a larger surface area for holding the connector during mating and un-mating.

The simple design includes an Easy-Grip rear sleeve extension that is fitted onto the cable before assembling the cable to the connector. Once the connector is fully terminated by crimping the centre contact and crimp sleeve, the Easy-Grip sleeve is snapped into the rear of the main coupling nut.

Centre contacts are gold plated, other body parts are nickel plated.

Part Number	Typical Cable Types (for more visit website)	Cable Group	Centre Contact mm	Outer Contact mm	Features
10-005-EG-B66-FA	See appendix for details on page 124	FA	1.72 Hex	5.41 Hex	Easy-Grip coupling nut
10-005-EG-B66-FB	See appendix for details on page 125	FB	1.72 Hex	6.50 Hex	Easy-Grip coupling nut
10-005-EG-B66-FC	See appendix for details on page 125	FC	1.72 Hex	8.23 Hex	Easy-Grip coupling nut



Assembly Procedure - AP047, see [www.coax-connectors.com/ap](http://www.coax-connectors.com/ap) for details



## Custom Designs

At COAX, we understand that not all customer applications can be satisfied using standard and off the shelf products. Our design and engineering specialists can evaluate such applications and propose solutions.

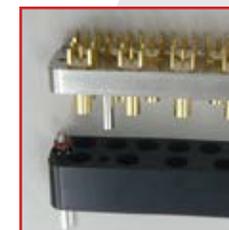
Typical examples of our successful resolution of customer problems include -

- New connector designs for saving space
- Adapting standard connectors to fit customer's housings
- Creating custom modules to improve handling
- Reducing insertion loss to improve bandwidth
- Ruggedized housing to seal and protect standard connectors

If you have an interconnect problem, please contact us to discuss how we might help.



Fibre from 'COAX'!  
Fully sealed shroud for fibre cable leads



Multi-way housings (2-11+) to make connections faster and more secure

### 3GHz Straight crimp jack

The range of full crimp straight jacks includes free cable variants and bulkhead mount variants shown on the page opposite.

Within the range is the option to choose either standard jacks or the True 75 ohm versions which are specially designed to give improved performance when used at higher frequencies or in High Definition Broadcast systems.

See table below for crimp sizes; suitable tooling can be found in the Accessories & Tooling section of this catalogue.



Part Number	Typical Cable Types (for more visit website)	Cable Group	Centre Contact mm	Outer Contact mm	Features
-------------	---	-------------	-------------------	------------------	----------

3GHz Crimp Jacks - True 75 ohm

10-054-B36-AB	See appendix for details on page 119	AB	1.72 Hex	5.41 Hex	5 part*
10-054-B36-AI	See appendix for details on page 120	AI	1.72 Hex	6.50 Hex	
10-054-B36-BC	See appendix for details on page 121	BC	1.46 Hex	6.50 Hex	
10-054-B36-BD	See appendix for details on page 122	BD	1.46 Hex	4.52 Hex	
10-054-B36-FA	See appendix for details on page 124	FA	1.72 Hex	5.41 Hex	
10-055-B36-BF	See appendix for details on page 122	BF	1.46 Hex	5.18 Hex	
10-056-B36-AB	See appendix for details on page 119	AB	1.72 Hex	5.41 Hex	4 Part*
10-056-B36-BG	See appendix for details on page 122	BG	1.46 Hex	3.25 Hex	4 Part*

\*Items marked '4 Part' are for small cables and include a supporting sleeve for reliable assembly, '5 Part' has an additional sleeve.



Assembly Procedure - AP001 & AP002 (4 Part), see [www.coax-connectors.com/ap](http://www.coax-connectors.com/ap) for details

### 12GHz Straight crimp jack

These True 75 ohm straight crimp jacks which include a gold plated body and inner contact are suitable for use up to 12GHz. The true 75 ohm options are specially designed to give improved performance when used at higher frequencies or in Ultra High Definition Broadcast systems.

See table below for crimp sizes; suitable tooling can be found in the Accessories & Tooling section of this catalogue.

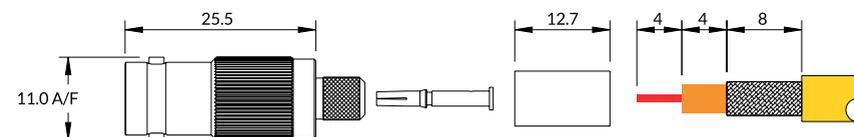
**Whilst designed specifically for 12G use these high performance jacks can equally be used for a range of applications from 3G to 12G.**



Part Number	Typical Cable Types (For more visit website)	Cable Group	Centre Contact mm	Outer Contact mm	Features
-------------	---	-------------	-------------------	------------------	----------

12GHz Crimp Jacks - True 75 ohm

10-054-D126-BH	See appendix for details on page 122	BH	1.07 Square	5.41 Hex	
10-054-D126-EF1	See appendix for details on page 124	EF	1.07 Square	4.52 Hex	US Crimp Size
10-054-D126-FA	See appendix for details on page 124	FA	1.72 Hex	5.41 Hex	
10-054-D126-FB1	See appendix for details on page 125	FB	1.07 Square	6.48 Hex	US Crimp Size
10-054-D126-FC1	See appendix for details on page 125	FC	1.07 Square	7.06 Hex	US Crimp Size
10-054-D126-FD	See appendix for details on page 126	FD	2.54 Hex	10.9 Hex	
10-054-D126-FI	See appendix for details on page 127	FI	2.54 Hex	10.9 Hex	



Assembly Procedure - AP001 & AP002 (4 Part), see [www.coax-connectors.com/ap](http://www.coax-connectors.com/ap) for details

# Straight bulkhead rear mount crimp jack.

Figure 1

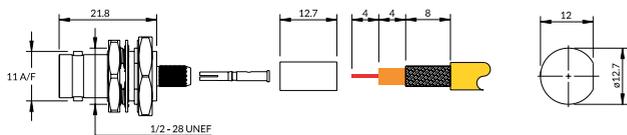
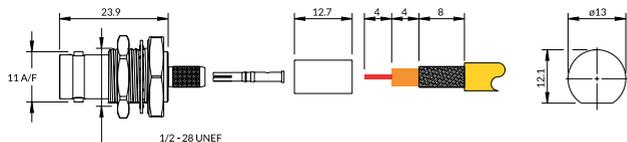


Figure 2



Assembly Procedure - AP001 & AP002 (4 Part), see [www.coax-connectors.com/ap](http://www.coax-connectors.com/ap) for details

Part Number	Typical Cable Types (for more visit website)	Cable Group	Centre Contact mm	Outer Contact mm	Features
<b>Standard 75 ohm Crimp Jacks</b>					
10-254-A0-AG	See appendix for details on page 119	AG	1.72 Hex	5.41 Hex	Figure 1
10-254-A0-AI	See appendix for details on page 120	AI	1.72 Hex	6.50 Hex	Figure 1
10-254-A0-BC	See appendix for details on page 121	BC	1.46 Hex	5.41 Hex	Figure 1
10-254-A0-FA	See appendix for details on page 124	FA	1.72 Hex	5.41 Hex	Figure 1
10-254-A6-BD	See appendix for details on page 122	BD	1.46 Hex	4.52 Hex	Figure 1
10-256-A0-AB	See appendix for details on page 119	AB	1.72 Hex	5.41 Hex	4 Part*, Figure 1
10-258-A3-AI	See appendix for details on page 120	AI	1.72 Hex	6.50 Hex	Black Insulator, Fig 2

Part Number	Typical Cable Types (for more visit website)	Cable Group	Centre Contact mm	Outer Contact mm	Features
<b>3GHz Crimp Jacks - True 75 ohm</b>					
10-254-B36-FA	See appendix for details on page 124	FA	1.72 Hex	5.41 Hex	Figure 1
10-258-B36-FA	See appendix for details on page 124	FA	1.72 Hex	5.41 Hex	Insulated, Figure 2
10-258-B36-FA-W	See appendix for details on page 124	FA	1.72 Hex	5.41 Hex	Black Insulator, Fig 2
10-258-B36-FB	See appendix for details on page 125	FB	1.72 Hex	6.50 Hex	Insulated, Figure 2
10-258-B36-FB-W	See appendix for details on page 125	FB	1.72 Hex	6.50 Hex	Black Insulator, Fig 2
10-258-B36-FC	See appendix for details on page 125	FC	1.72 Hex	8.23 Hex	Insulated, Figure 2
10-258-B36-FC-W	See appendix for details on page 125	FC	1.72 Hex	8.23 Hex	Black Insulator, Fig 2
10-282-B36-BG	See appendix for details on page 122	BG	1.07 Square	3.25 Hex	5 Part*, Figure 1

<b>12GHz Crimp Jacks - True 75 ohm</b>					
10-258-D126-EF1	See appendix for details on page 124	EF	1.07 Square	4.52 Hex	'KORUS' black & gold, Insulated, Figure 2
10-258-D126-FB1	See appendix for details on page 125	FB	1.07 Square	6.48 Hex	'KORUS' black & gold, Insulated, Figure 2
10-258-D126-FC1	See appendix for details on page 125	FC	1.07 Square	7.06 Hex	'KORUS' black & gold, Insulated, Figure 2
*Items marked '4 Part' are for small cables and include a supporting sleeve for reliable assembly. '5 Part' has an additional sleeve.					

## Straight bulkhead front mount solder jacks, insulated and non-insulated.



Figure 3



Figure 2

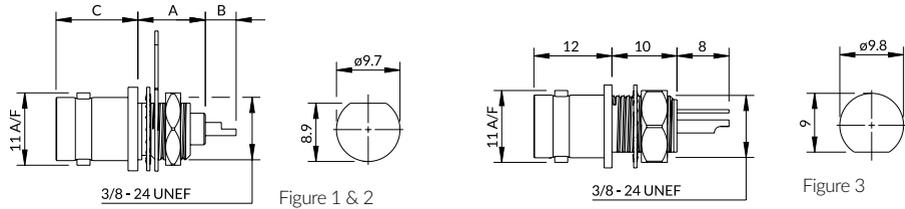


Figure 1

Options available include insulated and non-insulated styles. All are fitted with gold plated centre contacts, other body parts are nickel plated. All have D or double D flats on the body for anti rotation when mounted in a matching panel hole.

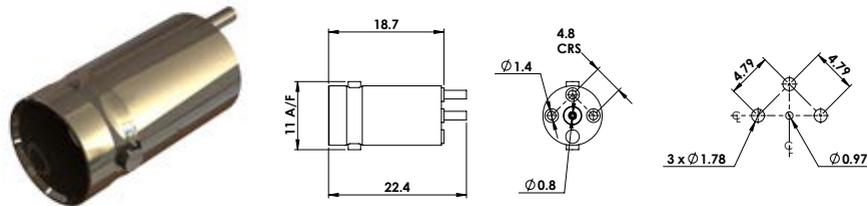
Centre conductor connection is to a solder bucket and the ground connection is through a ring solder tag or integral solder spill on the insulated version.

Part Number	Drawing dimension A	Drawing dimension B	Drawing dimension C	Centre Contact	Features
10-350-A3	15.5	3.25	12.5	Solder	Figure 2 - Long Body
10-350-B6	10	4.7	12.5	Solder	Figure 1
10-355-B6	10	4.7	12.5	Solder	Figure 1 - Double D Flat No solder tag
10-351-K6	See Outline Figure 3			Solder	Figure 3 - Insulated



## Straight PCB True 75ohm with 3 round legs.

BNC True 75 ohm straight PCB jack has 3 round legs and is suitable for applications up to 4.5GHz. Gold plated centre contact, nickel plated brass body with a height above board of 18.7mm.



Part Number	Features
10-486-1-B36	Three round legs - True 75 ohm - 4.5 GHz

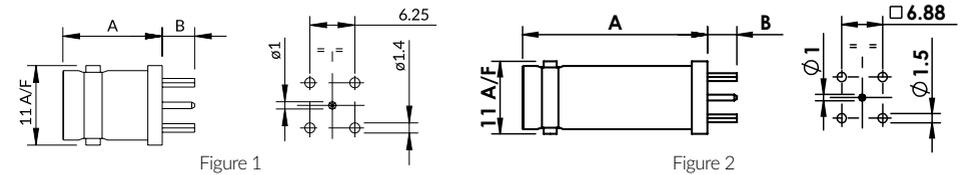
## Straight PCB through hole solder.

A selection of straight PCB connectors with a range of performance levels including a True 75 ohm version for use up to 3GHz.

Body styles with differing heights and base thickness, and one with the legs rotated through 45 degrees are included. Centre contacts are all gold plated.



Part Number	Drawing dimension A	Drawing dimension B	Features
10-450-B36-13.8	13.8	4.5	Figure 1 - 3GHz True 75 ohm
10-450-B6	13.8	4.5	Figure 1
10-491-B6	18.7	4.5	Figure 1
10-491-B6-45	18.7	4.5	As Figure 1 with legs 45° rotated relative to legs
10-452-A6	27.8	4.5	Figure 2
10-452-B6	20.0	4.32	Figure 2

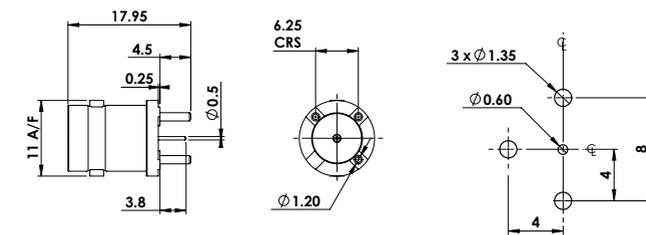


## Straight PCB True 75ohm with 3 round solder legs.

BNC True 75 ohm straight PCB jack has 3 round legs and is suitable for applications up to 4.5GHz. Gold plated centre contact, nickel plated brass body with a height above board of 13.45mm.



Part Number	Features
10-486-B36	Three round legs - True 75 ohm - 4.5 GHz

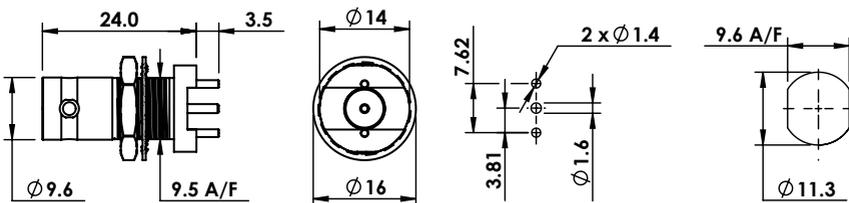


### Straight bulkhead PCB solder jack (6GHz).

PCB mounted jack that can be bulkhead fixed with the supplied nut and lock washer. Slotted circular fixing nuts (100-075) are also available, see Accessories and Tooling section of this brochure for details.

This connector has 3 legs (2 ground + centre) in a straight line and double D flats to provide anti-rotation when bulkhead mounted.

Suitable for use in applications up to 6GHz.



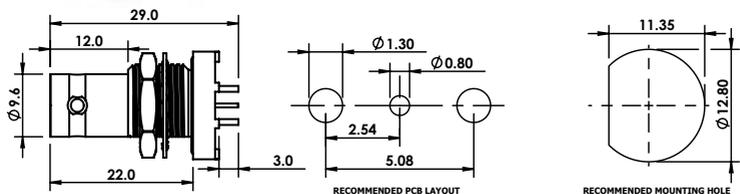
Part Number	Features
10-487-B36	True 75 ohm - 6 GHz

### Straight bulkhead PCB jack with panel seal (6GHz).

PCB mounted jack that can be bulkhead fixed with the supplied nut and lock washer. Slotted circular fixing nuts (100-075) are also available, see Accessories and Tooling section of this brochure for details.

This connector has 3 legs (2 ground + centre) in a straight line and single D flats to provide anti-rotation when bulkhead mounted.

Suitable for use in applications up to 6GHz.



Part Number	Features
10-455-B36	True 75 ohm - 6 GHz with panel seal

### Right angle PCB through hole solder bulkhead mount.

This selection of right angle PCB connectors includes low profile and insulated versions.

Through hole solder pegs on the main body provide support to the connector which can be bulkhead mounted using the supplied nut and lock washer. Slotted circular fixing nuts (100-075) are also available, see Accessories and Tooling section of this brochure for details.

Centre contacts are gold plated, metallic body parts are nickel plated.

To assist during assembly 10-466-1-A8 is fitted with boardlock pegs that hold the connector firmly in place before soldering.

Connectors are supplied complete with nut and lock washer.



Figure 1



Figure 2



Figure 3

Part Number	Dimension A mm	Dimension B mm	Centre Contact	Outer Contact	Features
10-466-A8	7.1	12.9	Solder	Solder	Figure 1 - Low Profile
10-468-A8	8.2	15.2	Solder	Solder	Figure 2
10-466-1-A8	8.2	15.2	Solder	Solder	Figure 2 *
10-471-K1	6.9	13.1	Solder	Solder	Figure 3 - White insulated body
10-471-K6	6.9	13.1	Solder	Solder	Figure 3 - Black insulated body

\*10-466-1-A8 is fitted with Board Locks in place of solder pegs that are not shown in the picture

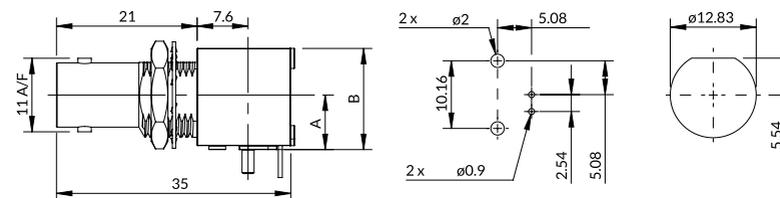


Figure 1, 2, 3



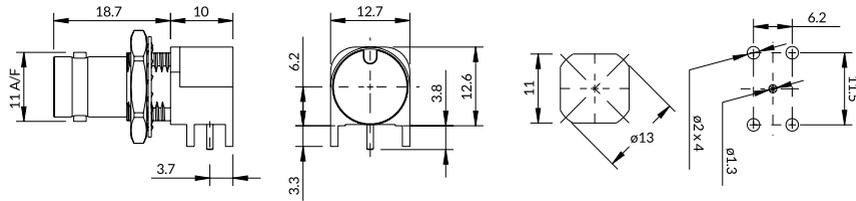
## Right angle PCB bulkhead mount.

This right angle PCB connector is designed to give True 75 ohm performance offering low return loss across the frequency range. The fully machined body, with either gold or nickel plating, and swept gold plated centre contact ensures optimum performance.

This connector is ideal for use in High Definition broadcast routers performing to SMPTE, and other 75 ohm low loss signal applications.

Additional leg lengths available, please see COAX website .

Part Number	Features
10-416-B66	6GHz Nickel plated
10-470-B36	4.5GHz Nickel plated
10-416-D66	6GHz Gold plated



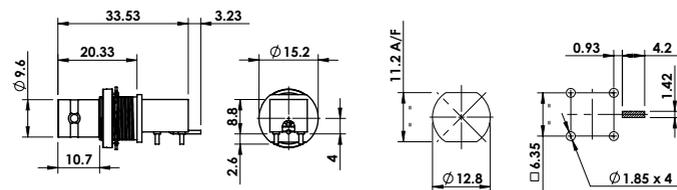
## Right angle PCB bulkhead mount, with surface mount centre contact.



This right angle PCB connector is designed to give True 75 ohm performance offering exceptional low return loss up to 4.5GHz. This connector has a gold plated surface mount centre contact and has a fully machined main body. Supplied with a slotted circular fixing nut, Suitable tooling can be found in the Accessories and Tooling section of this catalogue.

This connector is ideal for use in 4K High Definition broadcast routers performing to SMPTE, and other 75 ohm low loss signal applications.

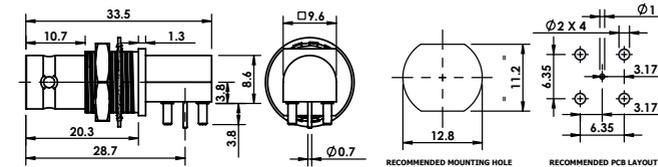
Part Number	Features
10-482-B36	4.5 GHz nickel plated



## Right angle PCB - 3GHz ultra low profile bulkhead mount.

This right angle PCB connector is designed to give True 75 ohm performance offering exceptional low return loss across the frequency range. The fully machined body, with nickel plating, and swept gold plated centre contact ensures optimum performance up to 3GHz and beyond. Slotted circular fixing nuts are also available,

The right angle body has a very low profile, with a height of only 10mm above the board. Fixing is through hole solder pegs.

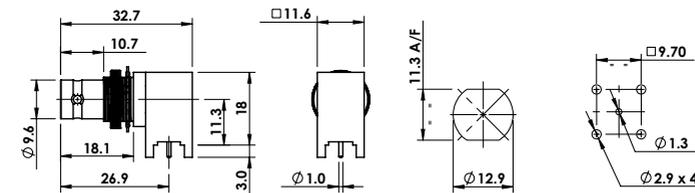


Part Number	Features
10-470-2-B36	3GHz nickel plated

## Right angle PCB through hole solder bulkhead mount.

True 75 ohm right angle bulkhead jack for applications up to 3GHz. The machined body is nickel plated and the contact is gold plated.

This connector is supplied complete with nickel plated lock washer and slotted circular nut. Suitable tooling can be found in the Accessories and Tooling section of this catalogue



Part Number	Features
10-468-B36	True 75 ohm - 3GHz

## PCB end launch bulkhead mount, including 12GHz.

PCB edge mount connectors for a range of board thicknesses. These connectors are soldered directly to solder pads on the edge of the board, offering significant space saving when compared with right angle through hole soldered versions. Supplied with or without nut and lock washer for panel mounting. Alternative slotted circular fixing nuts (100-075) are also available, see Accessories & Tooling section for details.



Part Number	Centre Contact	Outer Contact	Dimension A mm	Contact length mm	Features
10-462-D126-1.6	Solder	Solder	1.7	2.5	Figure 1 for 1.6mm board 12GHz, gold plated body
10-462-1-D126-1.6	Solder	Solder	1.7	2.5	As above, without nut and washer
10-462-D126-2.2	Solder	Solder	2.2	2.5	Figure 1 for 2.2mm board 12GHz, gold plated body
10-462-1-D126-2.2	Solder	Solder	2.2	2.5	As above, without nut and washer
10-462-D36-1.6	Solder	Solder	1.7	2.0	Figure 1 for 1.6mm board 6GHz, gold plated body
10-462-B126-1.6	Solder	Solder	1.7	2.5	Figure 2 for 1.6mm board 12GHz, nickel plated body
10-462-B36 - 1.6	Solder	Solder	1.7	2.0	Figure 2 for 1.6mm board 3GHz, nickel plated body
10-462-B36-1.85	Solder	Solder	1.95	2.5	Figure 2 for 1.85mm board 3GHz, nickel plated body

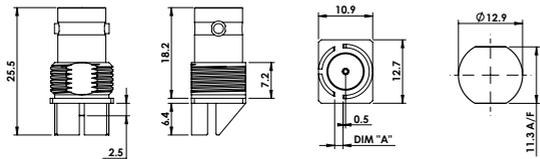


Figure 1

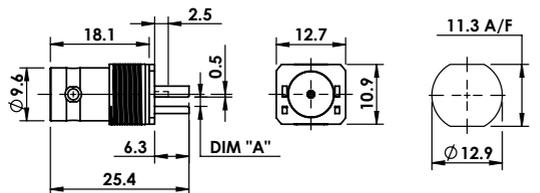


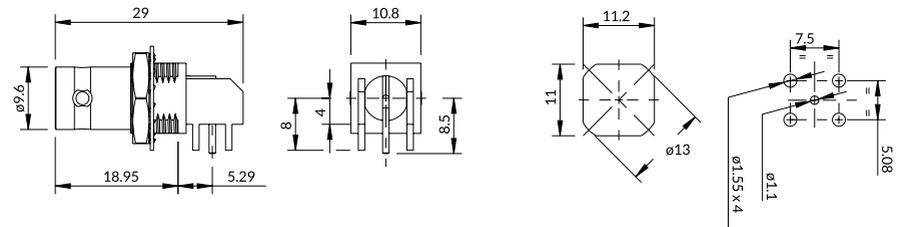
Figure 2

## Right angle PCB - bulkhead mount with light pipe.

This connector is designed with an insulator that allows light to pass through the interface. With an LED positioned on the PCB, behind the connector, the light source can be used to signal the current status of this port when unmated. Supplied with a lock washer and nut. Slotted circular fixing nuts (100-075) are also available, see Accessories and Tooling section of this brochure for details.

The LIGHT PIPE feature is ideal for locating the appropriate connector port on equipment panel arrays.

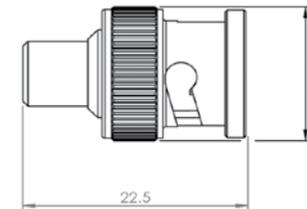
Part Number	Features
10-470-1-X36	3GHz Gold plated contact with nickel plated body



## BNC plug terminator

For terminating unconnected 75ohm BNC lines, this terminator is accurate to + or - 1% of the stated impedance.

Available in both 3 & 12GHz versions.



Part Number	Features
10-863-T6	3GHz Gold plated contact with nickel plated body
10-863-W126	12GHz 'KORUS' gold plated with black bayonet nut



## Adaptors.

Adaptors in a range of configurations for connection within the BNC series. All adaptors have gold plated centre contacts. For connecting BNC to other coaxial connector types, see our range of Inter Series Adaptors.

Figure 1



12GHz 'KORUS'.  
12GHz with nickel body  
also available.

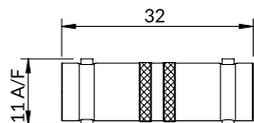


Figure 2

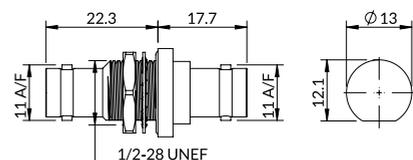


Figure 3

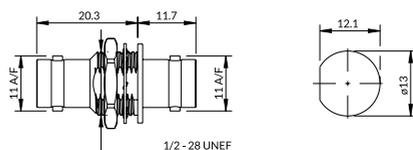


Figure 4



12GHz 'KORUS'.  
12GHz with nickel body  
also available.

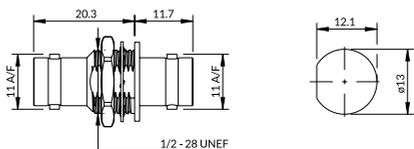


Figure 5



12GHz 'KORUS'.  
12GHz with nickel body  
also available.

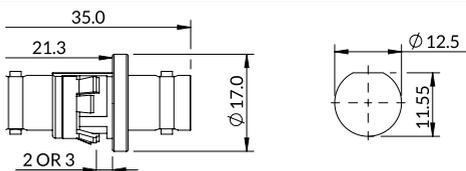


Figure 6

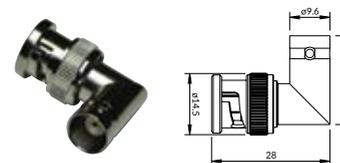


Figure 7

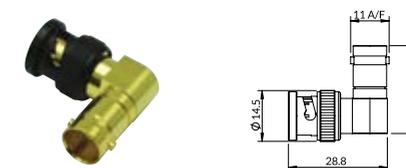
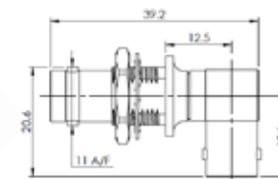


Figure 8



Figure 9



Part Number	Figure	Description	Interface Arrangement		Features
			Left	Right	
10-500-B36	Fig. 1	Straight Adaptor	Jack	Jack	3GHz nickel plated
10-500-B66	Fig. 1	Straight Adaptor	Jack	Jack	6GHz nickel plated
10-500-D66	Fig. 1	Straight Adaptor	Jack	Jack	'KORUS' 6GHz gold plated
10-500-W126	Fig. 1	Straight Adaptor	Jack	Jack	'KORUS' 12GHz gold plated
10-501-A6	Fig. 2	Straight Bulkhead Adaptor	Jack	Jack	Bulkhead seal - nickel plated
10-501-B36	Fig. 2	Straight Bulkhead Adaptor	Jack	Jack	Bulkhead seal - 4.5GHz nickel plated
10-503-A6	Fig. 3	Straight Bulkhead Insulated Adaptor	Jack	Jack	Nickel plated Also available in pack of 50
10-503-B126	Fig. 3	Straight Bulkhead Insulated Adaptor	Jack	Jack	12GHz Nickel Plated
10-503-B36	Fig. 4	Straight Bulkhead Insulated Adaptor	Jack	Jack	4.5GHz nickel plated
10-503-D66	Fig. 4	Straight Bulkhead Insulated Adaptor	Jack	Jack	'KORUS' 6GHz gold plated
10-503-W126	Fig. 4	Straight Bulkhead Insulated Adaptor	Jack	Jack	'KORUS' 12GHz gold plated
10-550-B36	Fig. 5	Straight Bulkhead Insulated Adaptor	Jack	Jack	Push-Fit to panel 4.5GHz nickel plated
10-550-W126	Fig. 5	Straight Bulkhead Insulated Adaptor	Jack	Jack	Push-Fit to panel 'KORUS' 12GHz gold plated.
10-520-A0	Fig. 6	Right Angle Adaptor	Plug	Jack	Nickel plated
10-520-B66	Fig. 6	Right Angle Adaptor	Plug	Jack	6GHz nickel plated
10-520-W66	Fig. 7	Right Angle Adaptor	Plug	Jack	'KORUS' 12GHz gold plated
10-519-B66	Fig. 8	Right Angle Adaptor	Jack	Jack	6GHz nickel plated
10-519-D66	Fig. 8	Right Angle Adaptor	Jack	Jack	'KORUS' 6GHz gold plated
10-538-W66	Fig. 9	Right Angle Bulkhead Adaptor	Jack	Jack	'KORUS' 6GHz gold plated



# Micro BNC (HD BNC) 75 ohm connectors.

Micro BNC (also known as HD-BNC) connectors are designed for UHD Broadcast, telecom, HDcctv, instrumentation and similar applications that require high performance in a high density package. Micro BNC are fully intermateable with other series of HD-BNC/High density BNC.

The range of Micro BNC includes parts that meet the requirements of SMPTE ST 2082-1, these connectors are used in 12G UHD-SDI and are fit for Ultra HD 4K applications. With a diameter of only 7.8 mm, 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.

## Key features:

- True 75 ohm options
- Up to 12 GHz
- Patented coupling nut for easy connection
- Versions for 12G-SDI
- Wide range of cables covered



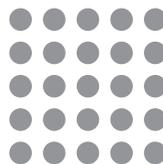
## New connectors.

Also now available are 50 ohm versions of Micro BNC. See our website, or call us for more information

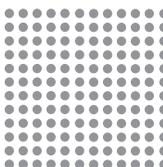


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Straight PCB jacks	40
Right angle PCB jacks	40
75 ohm termination	41
Adaptors	41
BNC 75 ohm	10-31

**Standard BNC**  
25 Connectors  
96mm Sq Area



**Micro BNC**  
144 Connectors  
475% more  
8mm Pitch

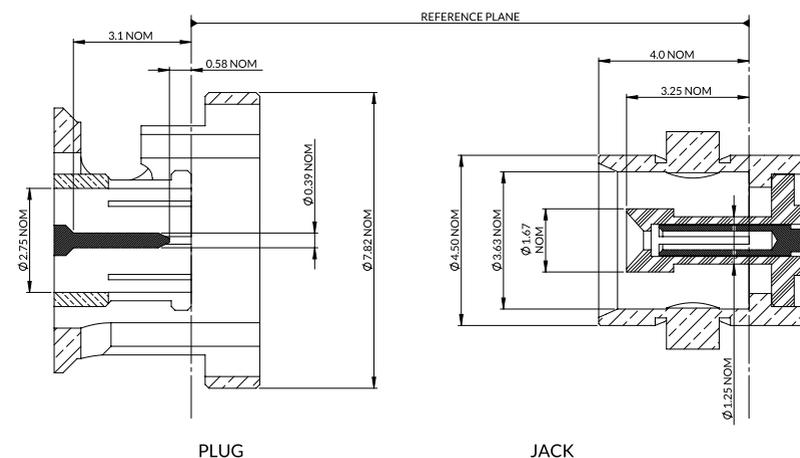


## Specification.

Electrical Specification		Environmental Specification	
Impedance	75 ohm	Operation temperature	-55 to +155 Deg C
Frequency Range	Up to 12GHz	IP Rating (Mated)	IP64
Dielectric Withstand Voltage	1000 Veff		
Insulation Resistance	10000 M-ohm		
Mechanical Specification		Materials	
Design standard FCL 12767		Centre Contact	Beryllium Copper
RoHS Compliant	Yes	Outer Contact	Brass
Mating Cycles	500	Insulator	PTFE
Contact Retention	10N min	Bayonet Cap	Brass
Mating Force	6.7-22N max	Centre Contact Plating	Gold
Un-coupling Force	3.3N min	Outer Contact Plating	Nickel or Gold

The above values are typical. Please check product data sheets for full details  
- see [www.coax-connectors.com](http://www.coax-connectors.com) or call +44(0)20 8538 9090

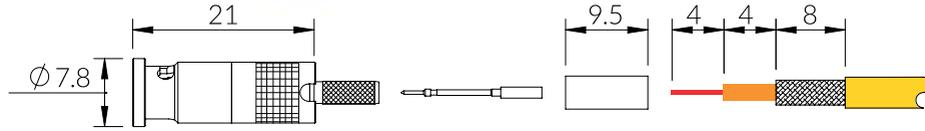
## Micro BNC 75 ohm interface.



## Straight cable plugs.

75 ohm Micro BNC straight crimp plugs conform to SMPTE ST 2082-1 and are suitable for use in broadcast 12G SDI applications or other industries requiring a small connector with low loss performance to 12GHz.

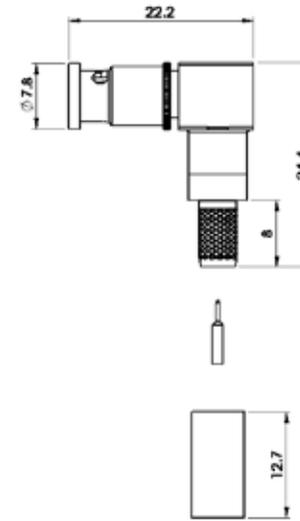
The unique patented COAX Connectors design has the coupling nut extended to the rear, which makes access for mating and un-mating easier. A special insertion and extraction tool (96-1132) that fits to this coupling nut is for use when packing density does not allow for finger access, details of this tool can be found in the Accessories & Tooling section of this catalogue. Suitable crimp tooling can be found in the Accessories & Tooling section of this catalogue.



Assembly Procedure - AP001, see [www.coax-connectors.com/ap](http://www.coax-connectors.com/ap) for details

Part Number	Typical Cable Types (for more visit website)	Cable Group	Centre Contact mm	Outer Contact mm	Features
67-005-B66-AB	See appendix for details on page 119	AB	0.95 Sq	3.25 Hex	
67-005-B66-BH	See appendix for details on page 122	BH	0.95 Sq	4.52 Hex	
67-005-B66-EF1	See appendix for details on page 124	EF	0.95 Sq	5.41 Hex	US standard crimp sizes
67-005-B66-FA	See appendix for details on page 124	FA	0.95 Sq	5.41 Hex	Also available in Bulk
67-005-B66-1-FA	See appendix for details on page 124	FA	0.95 Sq	5.41 Hex	Centre contact plated 15µm gold
67-005-B66-FB	See appendix for details on page 125	FB	0.95 Sq	6.48 Hex	
67-005-B66-FB1	See appendix for details on page 125	FB	0.95 Sq	6.48 Hex	US standard crimp sizes
67-005-B66-FC	See appendix for details on page 125	FC	1.07 Hex	8.23 Hex	
67-005-B66-FE	See appendix for details on page 127	FE	0.95 Sq	6.48 Hex	
67-005-B66-FI	See appendix for details on page 127	FI	1.72 Hex	8.23 Hex	
67-005-B66-JB	See appendix for details on page 128	JB	0.95 Sq	6.48 Hex	
67-005-B66-JC	See appendix for details on page 128	JC	1.72 Hex	8.23 Hex	

## Right angle crimp plug



Part Number	Typical Cable Types (for more visit website)	Cable Group	Centre Contact Crimp mm	Outer Contact Crimp mm
67-104-B126-EF1	See appendix for details on page 124	EF	1.07 Sq	4.52 Hex
67-104-B126-FB1	See appendix for details on page 125	FB	1.07 Sq	6.48 Hex
67-104-B126-FC1	See appendix for details on page 125	FC	1.07 Sq	7.06 Hex



### New Connectors

We are regularly designing new connectors to enhance our range, if you can not find what you need please contact us.

## 12GHz PCB push-on plug (without bayonet nut).

These PCB plugs do not have the bayonet locking nut fitted so are ideal for board to board applications or for situations where locking is not required.



Figure 1



Figure 2

Part Number	Figure	Features
67-403-D126	Figure 1	Straight, surface mount, PCB jack
67-409-D126-1.6	Figure 2	End launch, PCB jack, for 1.6mm board

Figure 1

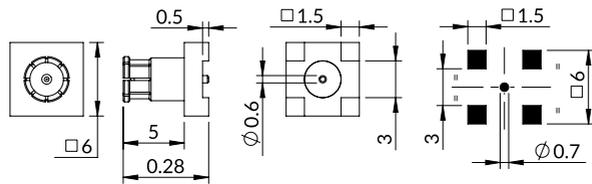
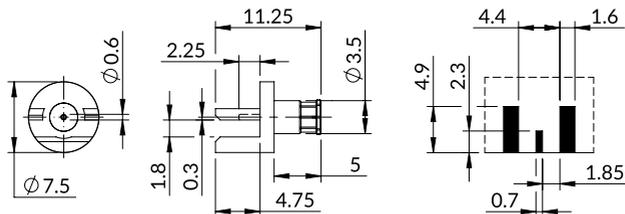


Figure 2



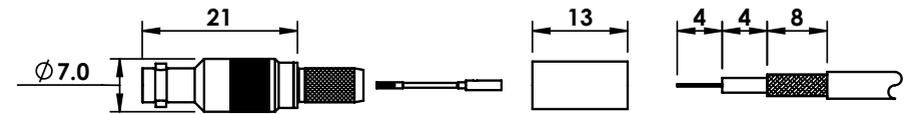
## Straight crimp jack

Jacks are available for a wide range of standard broadcast cables with the option to crimp using either European or US die sizes.



Part Number	Typical Cable Types (For more see appendix)	Cable Group	Assembly Procedure	Centre Contact mm	Outer Contact mm	Features
67-054-B66-FA	See appendix for details on page 124	FA	AP001	0.95 Sq	5.41 Hex	
67-054-B66-EF1	See appendix for details on page 124	EF	AP001	1.07 Sq	4.52 Hex	US standard crimp sizes
67-054-B66-FB	See appendix for details on page 125	FB	AP001	0.95 Sq	6.48 Hex	
67-054-B66-FB1	See appendix for details on page 125	FB	AP001	1.07 Sq	6.48 Hex	US standard crimp sizes
67-054-B66-FC	See appendix for details on page 125	FC	AP001	1.07 Sq	8.23 Hex	
67-054-B66-FC1	See appendix for details on page 125	FC	AP001	1.07 Sq	7.06 Hex	US standard crimp sizes

For full details of assembly procedures, go to [www.coax-connectors.com/ap](http://www.coax-connectors.com/ap)



## Straight and Right angle PCB jacks.

The PCB options include straight bulkhead mount and a 3 leg version for use where board tracking limits the use of a standard 4 leg version. The 3 leg version is optimised for use up to 6GHz. The right angle versions are for bulkhead mounting and are available in several sizes for fixing to different board thicknesses. All connectors have gold plated centre contacts and bodies. The bulkhead mounted versions are supplied complete with a circular slotted fixing nut. A tool for tightening this nut (96-1135) can be found in the Accessories & Tooling section of this catalogue.



Figure 1



Figure 2



Figure 3

Part Number	Dimension A mm	Features
67-410-B126		SMT Centre Contact. Locking Legs. Available in tape and reel for pick and place assembly.
67-454-D66		Figure 1 - 4 Leg + Centre contact Bulkhead Mount
67-454-2-D66		Figure 4
67-454-3-D66		Figure 1 - with 1.6mm leg length
67-476-D66 12.25	12.25	Figure 2 - 3 Leg + Centre contact 6GHz
67-476-D66- 8.3	8.3	Figure 2 - 3 Leg + Centre contact 6GHz
67-468-D66	2.4	Figure 3
67-468-1-D66	3.7	Figure 3 - Centre contact - plated 15µ" gold
67-468-2-D66	2	Figure 3
67-468-3-D66	3.7	Figure 3

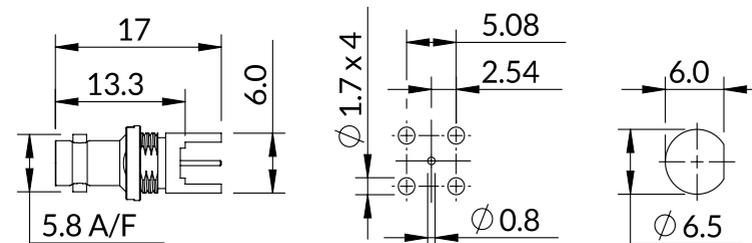


Figure 1

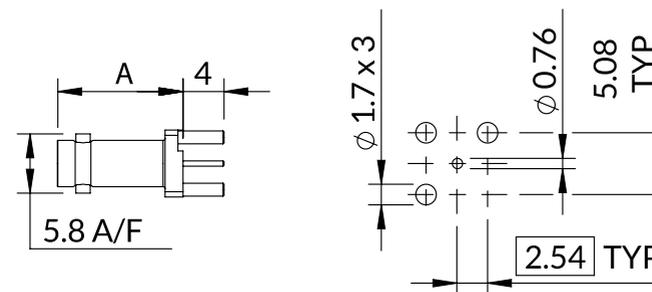


Figure 2

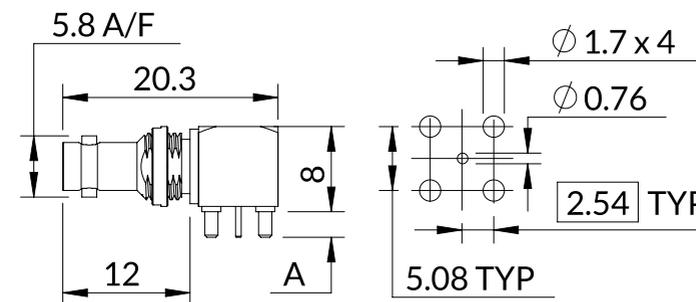


Figure 3

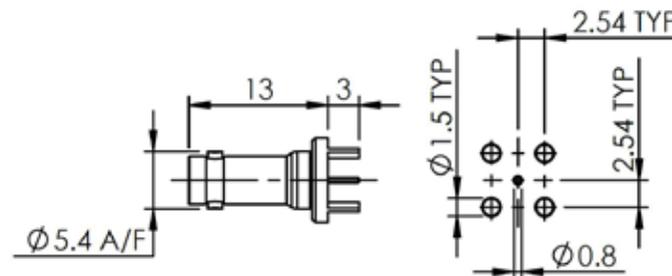


Figure 4

### 12G Twin right angle PCB jack. Offset & vertical stacked.

Figure 1



Figure 2



Part Number	Figure	Features
92-67-468-3	Figure 1	Offset stacked with screw fix to panel. 2mm PCB legs 12GHz
92-67-468-2-B126	Figure 2	Vertical stacked with bulkhead nut fixing to panel. 2.4mm PCB legs 12GHz

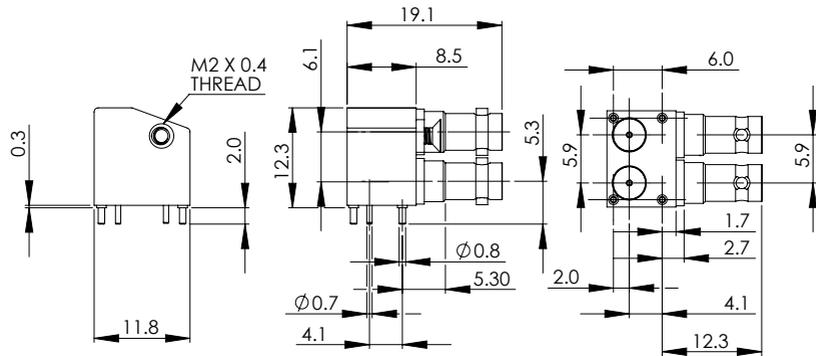


Figure 1

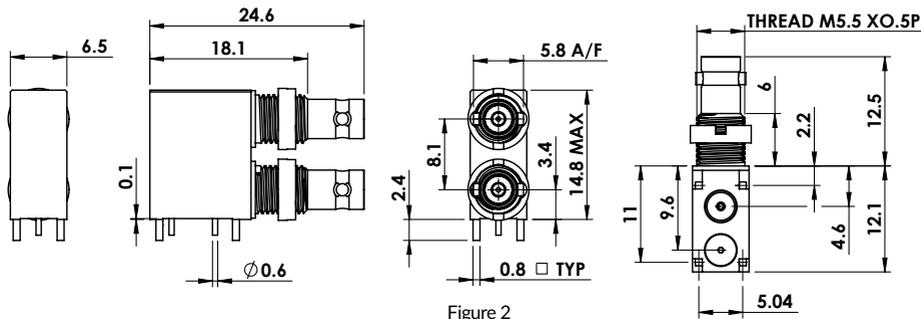


Figure 2

See data sheet for mounting details



micro MUSA 12G 4K

# winner

of Best New Hardware Infrastructure Technology in the 2019 NAB Show Product of the Year Awards

## End launch PCB jack including light pipe.

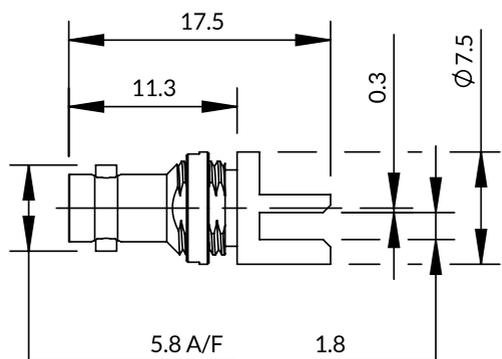
This 3GHz connector is available either as a standard edge mount connector, or one that is fitted with an insulator that allows light to pass through the interface. With an LED positioned on the PCB, behind the connector, the light source can be used to signal the current status of this port when unmated.

The LIGHT PIPE feature is ideal for locating the appropriate connector port on equipment panel arrays.

For edge mount soldering to a 1.6mm thick PCB, the connector includes a circular slotted fixing nut for bulkhead mounting. A tool for tightening this nut (96-1135) can be found in the Accessories & Tooling section of this catalogue.



Part Number	Centre Contact	Outer Contact	Features
67-463-D66 1.6mm	Solder	Solder	Board Edge fitting to 1.6mm Board
67-463-1-D66-1.6mm	Solder	Solder	Board Edge fitting to 1.6mm Board with Light-Pipe insulator

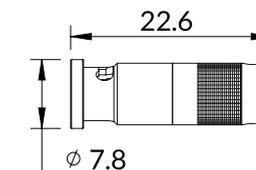


## 75 ohm termination.

This plug device provides a 75 ohm termination for any unused jack port.

This part has the same rear extended coupling nut (sleeve) used for the plug connectors. The sleeve incorporates a feature that allows it to be connected and disconnected with the standard tool (96-1132) used for cable plugs, see Accessories & Tooling section of this catalogue for more information.

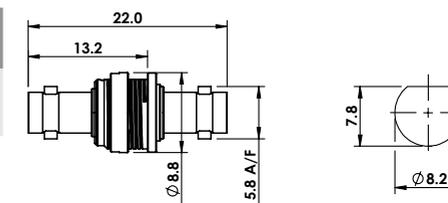
Part Number	Centre Contact	Outer Contact	Features
67-863-B36	N/A	N/A	Return Loss: -26dB @ 3GHz



## Isolated Metal Thread Bulkhead Jack to Jack Adaptor (12GHz)

Bulkhead Jack to Jack Adaptor with a metal tread that is insulated from the main connector body. This true 75 ohm Adaptor is designed for 12G-SDI applications and general use up to 12GHz.

Part Number	Interface Arrangement Left	Interface Arrangement Right	Features
67-503-D126	Jack	Jack	Body insulated from panel



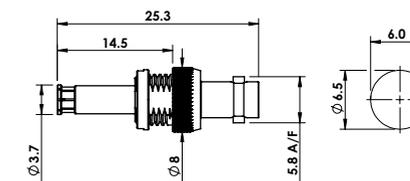
## Plug to Jack Adaptor (12GHz)

Micro BNC Bulkhead Push-On plug to jack adaptor.

This is a bulkhead mounted adaptor without the coupling nut mechanism on the plug, for use as a push-on, non latching interface. Due to the absence of the coupling nut, the plug end will not latch.

This adaptor is designed to give low loss performance up to 6GHz.

Part Number	Interface Arrangement Left	Interface Arrangement Right	Features
67-512-B66	Plug	Jack	Without coupling nut





TNC Index	Page
TNC 75ohm	46-50
Straight crimp cable plug	48
Straight cable jack	49
Straight Bulkhead cable jack	49
Adaptors	50

# TNC 75 ohm connectors.

TNC connectors featured in this section are a screw lock coupling version of the BNC connectors. Our TNC range includes both 50 and 75 ohm styles, only 75 ohm are shown in this catalogue (Please see our main catalogue for all other types). The screw coupling enables TNC to be used at frequencies up to 12GHz and in harsh environment situations. Widely used for antenna connections, TNC have many applications in avionics, defence, communications and general industrial markets.

## Key features:

- Threaded coupling
- IP 64 sealed interface
- Wide range of cables covered
- Cable assemblies on request

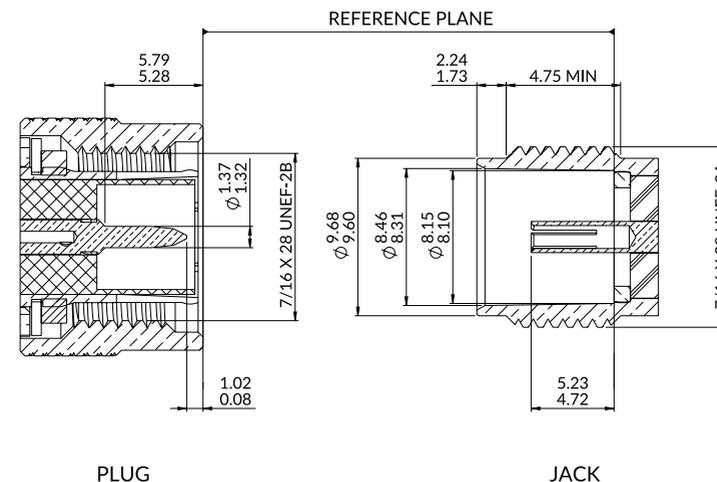


New connectors are regularly being added to our range, if you cannot find what you need, please contact us.

## Specification.

Electrical Specification		Environmental Specification	
Impedance	75 ohm	Operation temperature	-55 to +155 Deg C
Frequency Range	Up to 12GHz	IP Rating (Mated)	IP64
Dielectric Withstand Voltage	1500 Veff		
Insulation Resistance	5000 M-ohm		
Mechanical Specification		Materials	
Design Standard	IEC-61169-17	Centre Contact	Brass
RoHS Compliant	Yes	Outer Contact	Brass
Mating Cycles	500	Insulator	PTFE/Delrin
Contact Retention	15N min	Coupling Nut	Brass
Mating Force	<20N max	Centre Contact Plating	Gold
Un-coupling Force	>2.2N min	Outer Contact Plating	Nickel
The above values are typical. Please check product data sheets for full details - see <a href="http://www.coax-connectors.com">www.coax-connectors.com</a> or call +44(0)20 8538 9090			

## TNC 75 ohm interface.





## Straight cable plug.

The TNC 75 ohm crimp plugs shown here are designed to suit the wide variety of popular cables shown in the table.

The range now includes a selection of plugs capable of low loss performance up to, and beyond 12GHz.

TNC plugs have a threaded nut that provides a secure coupling enabling the TNC series to be used for higher frequencies.

Appropriate assembly tooling can be found in the Accessories & Tooling section of this catalogue and if required, COAX can offer made to order cable assemblies.

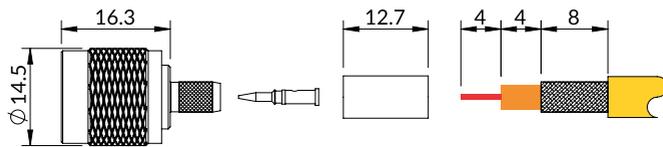
Figure 1

Figure 2

Part Number	Cable Types	Cable Group	Centre Contact mm	Outer Contact mm	Features
13-005-A0-AB	See appendix for details on page 119	AB	1.73 Hex	5.41 Hex	Figure 1 4 Part*
13-005-A0-AI	See appendix for details on page 120	AI	1.73 Hex	6.5 Hex	Figure 1
13-005-A0-AM	See appendix for details on page 121	AM	2.54 Hex	10.9 Hex	Figure 1 1GHz
13-005-D126-FA	See appendix for details on page 124	FA	1.72 Hex	5.41 Hex	Figure 2 12GHz
13-005-D126-FB	See appendix for details on page 125	FB	1.72 Hex	6.50 Hex	Figure 2 12GHz
13-005-D126-FC	See appendix for details on page 125	FC	1.72 Hex	8.23 Hex	Figure 2 12GHz
13-005-D126-FF	See appendix for details on page 127	FF	1.72 Hex	8.23 Hex	Figure 2 12GHz

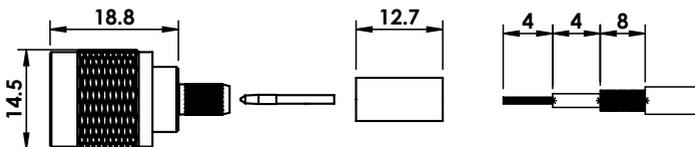
\*4 Part connectors include an insulated sleeve to provide additional support for small cables during assembly

Figure 1



Assembly Procedure - AP001 & AP002 (4 part), see [www.coax-connectors.com/ap](http://www.coax-connectors.com/ap) for details

Figure 2



Assembly Procedure - AP001 See [www.coax-connectors.com/ap](http://www.coax-connectors.com/ap) for details

## Straight cable jack.

TNC straight jacks have gold plated crimped contacts and crimped outer conductor.

Included here is a version with an insulated body to provide isolation from the panel onto which it is mounted.

Crimp sizes are shown in the table and suitable tooling can be found in the Accessories & Tooling section of this catalogue.

Figure 1



Figure 2

Part Number	Cable Types	Cable Group	Centre Contact mm	Outer Contact mm	Features
13-055-A3-AB	See appendix for details on page 119	AB	1.73 Hex	5.41 Hex	Figure 1 4 Part*
13-260-A5-AB	See appendix for details on page 119	AB	1.73 Hex	5.41 Hex	Figure 2 Insulated panel mount

\*Items marked '4 Part' are for small cables and include a supporting sleeve for reliable assembly.

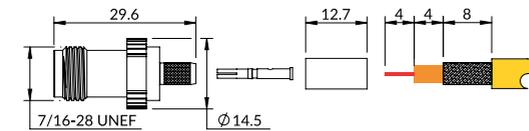


Figure 1

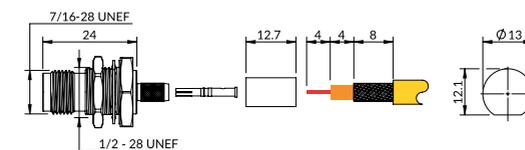


Figure 2

Assembly Procedure - AP001 & AP002 (4 part), see [www.coax-connectors.com/ap](http://www.coax-connectors.com/ap) for details

## Jack to Jack Adaptor.

All adaptors have gold plated centre contacts with nickel plated bodies.  
For connecting TNC to other coaxial connector types, see our range of Inter Series Adaptors.



Figure 1

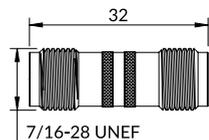
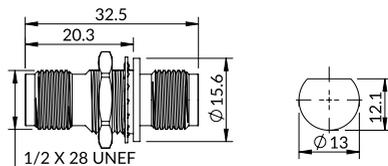


Figure 2



Part Number	Description	Interface Arrangement		Features
		Left	Right	
13-500-B36	Straight Adaptor	Jack	Jack	3GHz 75 ohm Figure 1
13-503-B126	Insulated Straight Bulkhead Adaptor	Jack	Jack	12GHz 75 ohm Figure 2 Insulated mounting

# Tooling

See page 116





F Type	Page
Cable plug - single piece - integral crimp	54
Cable plug	55
Adaptors	55

## F Type connectors.

F Type are low cost 50 & 75 ohm miniature connectors typically used in cable TV, satellite TV, CATV and cable modem installations. F type have a screw coupling and commonly use the solid centre conductor of the cable as the centre contact although versions with a separate crimped contact are available.

Body parts are nickel plated and where applicable the centre contacts are gold plated.

### Key Features:

- Simple assembly
- Low cost
- Single part on certain styles



### New connectors.

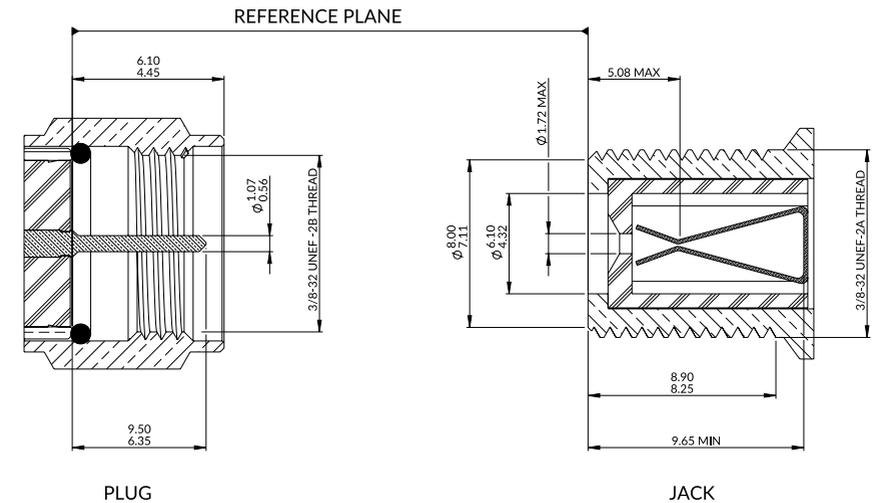
We are regularly designing new connectors to enhance our range, if you can not find what you need, please contact us.

## Specification.

Electrical Specification		Environmental Specification	
Impedance	75 ohm	Operation temperature	-40 to +140 Deg C
Frequency Range	Up to 3GHz	IP Rating (Mated)	IP64
Dielectric Withstand Voltage	1500 Veff		
Insulation Resistance	1000 M-ohm		
Mechanical Specification		Materials	
Design Standard	IEC 60169-24	Centre Contact	Brass
ROHS Compliant	Yes	Outer Contact	Brass
Mating Cycles	100	Insulator	PTFE
Contact Retention	20N max	Coupling Nut	Brass
Coupling Nut Torque	0.46 - 0.69Nm	Centre Contact Plating	Gold
		Outer Contact Plating	Nickel/Gold

The above values are typical. Please check product data sheets for full details - see [www.coax-connectors.com](http://www.coax-connectors.com) or call +44(0)20 8538 9090

## F Type interface.





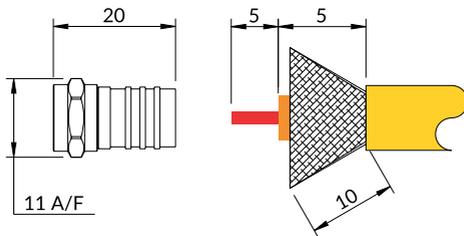
## Cable plug - single piece - integral crimp.

F Type plugs with integral crimp are a single part connector where the crimp sleeve is formed from the main body and the centre conductor of the cable acts as the centre contact.

The threaded nut provides a secure coupling to the mating half to prevent accidental disconnection.

All elements of this connector are nickel plated.

Part Number	Typical Cable Types (for more visit website)	Cable Group	Centre Contact mm	Outer Contact mm	Features
15-015-Z0-AI	See appendix for details on page 120	AI	N/A	8.23 Hex	
15-015-Z0-AN	See appendix for details on page 121	AN	N/A	10.9 Hex	
15-015-Z0-AS Bulk	See appendix for details on page 121	AS			
15-015-Z0-CA	See appendix for details on page 122	CA	N/A	8.05 Hex	
15-015-Z0-CC	See appendix for details on page 122	CC	N/A	11.4 Hex	
15-015-Z0-CE	See appendix for details on page 123	CE	N/A		
15-024-Z0-CC	See appendix for details on page 122	CC	N/A	8.6 Hex	Non standard crimp size



Assembly Procedure - AP009, see [www.coax-connectors.com/ap](http://www.coax-connectors.com/ap) for details

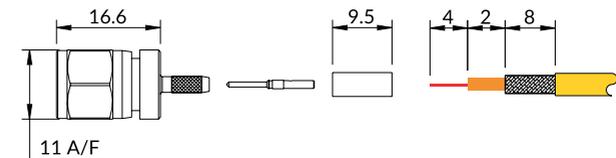
## Cable plug - up to 3GHz.

For higher RF performance these full crimp versions feature separate gold plated centre contact which provides a more robust and reliable connector. Selected versions are suitable for use up to 3GHz, see table below.

Also available are the simple to assemble variants using Twist-On and the tool-less Spring-Lock termination.



Part Number	Typical Cable Types (for more visit website)	Cable Group	Centre Contact mm	Outer Contact mm	Features
15-005-A6-AB	See appendix for details on page 119	AB	1.07 Sq	3.25 Hex	
15-005-B36-AB	See appendix for details on page 119	AB	0.95 Sq	3.25 Hex	3GHz
15-005-B36-FA	See appendix for details on page 124	FA	1.73 Hex	5.41 Hex	3GHz
15-005-B36-FB	See appendix for details on page 125	FB	1.72 Hex	6.50 Hex	3GHz
15-005-B36-FC	See appendix for details on page 125	FC	1.72 Hex	8.23 Hex	3GHz
15-005-B36-FE	See appendix for details on page 127	FE	1.72 Hex	6.50 Hex	3GHz
15-005-B36-FG	See appendix for details on page 127	FG	1.73 Hex	6.48 Hex	3GHz
15-027-Z0-CA	See appendix for details on page 122	CA	1.73 Hex	8.05 Hex	
15-004-Z0-AG	See appendix for details on page 119	AG	N/A	5.41 Hex	Twist-on
15-026-D6-CA	See appendix for details on page 122	CA	Push-On	Push-On	Spring-Lock



Assembly Procedure - AP001 & AP008 (15-026) See [www.coax-connectors.com/ap](http://www.coax-connectors.com/ap) for details

## Adaptors.

Adaptors for connecting together F Type connectors. For connecting F Type to other series, see our range of Inter-Series Adaptors.

Part Number	Configuration	Features
15-501-A0	Jack to jack - bulkhead fixing	Figure 1
15-514-A6	Plug to plug	Figure 2



Figure 1

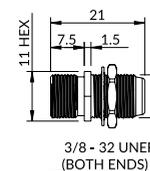


Figure 1

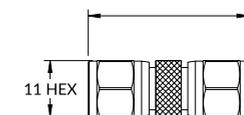


Figure 2



0.4/2.5 - 75 ohm	Page
Surface mount PCB plug and jack	56
Cable plug and jack	57

# 0.4/2.5 Connectors.

0.4/2.5 is one of the smallest true 75 ohm connectors available.

This micro-miniature series is ideal for High Definition camera and CCTV applications or anywhere a very small 75 ohm board connection is required. Suitable for use up to 4.5 GHz, this series exceeds the requirements of SMPTE 292M and HD-SDI standards for HD broadcasts.

The range includes surface mounted plugs and jacks together with a selection of cable connectors.

When used in a parallel board to board configuration, only 8mm between boards is required. When the board mounted plug is mated with a right angle cable jack, only 10mm height above board is needed.

## Surface mount PCB plug and jack.



Figure 1



Figure 2

With a plug height of only 3mm above board, these PCB connectors are designed for surface mount soldering and feature an orientation flat on the body for pick and place assembly. Connectors can be supplied in tape and reel or loose packed.

With gold plated inner and outer contacts, these high performance micro miniature connectors are ideal for use in equipment packages where space is critical.

Part Number	Description	Figure
18-483-D6	Straight PCB Plug - Surface mount assembly	Figure 1
18-453-D6	Straight PCB Jack - Surface mount assembly	Figure 2

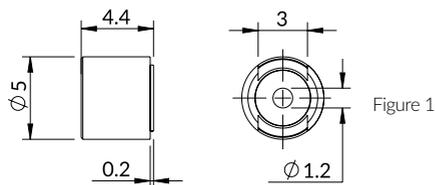


Figure 1

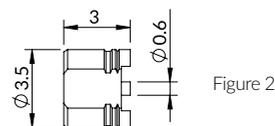


Figure 2

## Cable plug and jack.

A selection of cable connectors includes straight and right angle options. Designed for use with RG179 size cables, connectors to fit other miniature 75 ohm cables types are available on request.

Centre contacts of the straight versions are indent crimped and right angle versions are soldered with the outer conductor being terminated with a hexagon crimp.

Full details of suitable tooling can be found in the Accessories & Tooling section of this catalogue.



Part Number	Typical Cable Types (for more visit website)	Cable Group	Centre Contact mm	Outer Contact mm	Features
18-005-D36-AB	See appendix for details on page 119	AB	Indent Crimp	3.25 Hex	Figure 1 Straight
18-054-D36-AB	See appendix for details on page 119	AB	Indent Crimp	3.25 Hex	Figure 2 Straight
18-154-D6-AB	See appendix for details on page 119	AB	Solder	3.25 Hex	Figure 3 Right angle

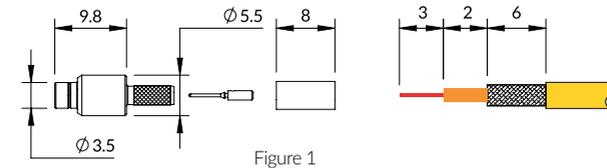


Figure 1

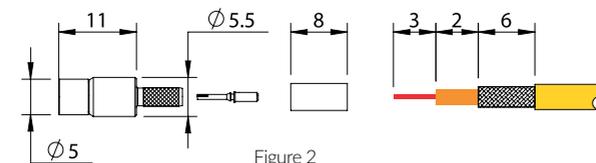


Figure 2

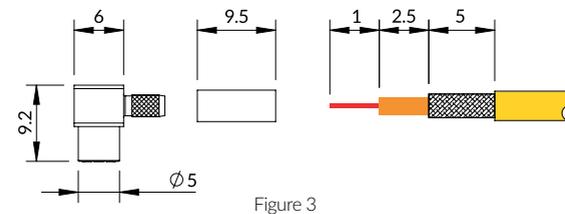


Figure 3

Assembly Procedure - AP023 (straight) AP017(R/A) see [www.coax-connectors.com/ap](http://www.coax-connectors.com/ap) for details



# N Type connectors.

N Type connectors are available in 50 & 75 ohm versions with certain 50 ohm styles being suitable for use up to 11GHz.

With a rugged screw coupling, N Type are a mid sized series of RF connectors with the interface designed according to IEC61169-16 and are sealed to IP67 when mated.

N Type connectors are widely used in communication systems where higher performance and power are required.

Note - 50 and 75 ohm versions of N Type connectors are not compatible and permanent damage to the connector may occur if mated.

## Key Features:

- 50 & 75 ohm options
- Rugged Screw Coupling
- Up to 11GHz for selected styles
- IP67 when mated



## New connectors.

We are regularly designing new connectors to enhance our range, if you can not find what you need, please contact us.

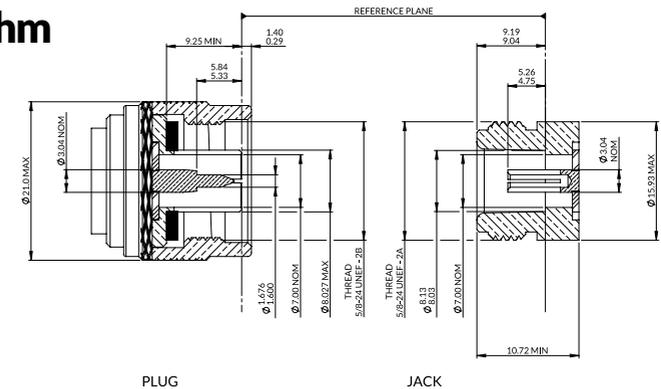
N Type 50 & 75 ohm	Page
Straight cable plug for flexible cable	60-61
Straight direct solder cable plug for semi rigid cables	60-61
Straight solder / clamp cable plug	62
Straight Easy-Fit cable plug	63
Right angle cable plug	64
Bulkhead and flange mount plugs	65
Straight crimp cable jack	66
Straight clamp & Easy-Fit cable jack	67
Straight bulkhead rear mount cable jack	68
Straight flange mount cable jack, crimp & direct solder	69
Front mount bulkhead jack	70
Bulkhead 4 hole flange mount jack	70
Dust cap & shorting cap	71
Adaptors	72-73

## Specification.

The values below are typical. Please check product data sheets for full details - see [www.coax-connectors.com](http://www.coax-connectors.com) or call +44(0)20 8538 9090

Electrical Specification		Environmental Specification	
Impedance	50 & 75 ohm	Operation temperature	-55 to +155 Deg C
Frequency Range	50 ohm up to 18GHz 75 ohm up to 6GHz	IP Rating (Mated)	IP67
Dielectric Withstand Voltage	1500 Veff		
Insulation Resistance	5000 M-ohm		
Mechanical Specification		Materials	
Design Standard	IEC-61169-16	Centre Contact	Phosphor Bronze/Beryllium Copper/Brass
ROHS Compliant	Yes	Outer Contact	Brass
Mating Cycles	500	Insulator	PTFE
Contact Retention	13N min	Coupling Nut	Brass
Mating Force	26N max	Centre Contact Plating	Gold
Un-coupling Force	13.6N max	Outer Contact Plating	Nickel/White Bronze

## N Type 50 ohm interface.



## N Type 75 ohm interface.



Note - 50 and 75 ohm versions of N Type connectors are not compatible and permanent damage to the connector may occur if mated.

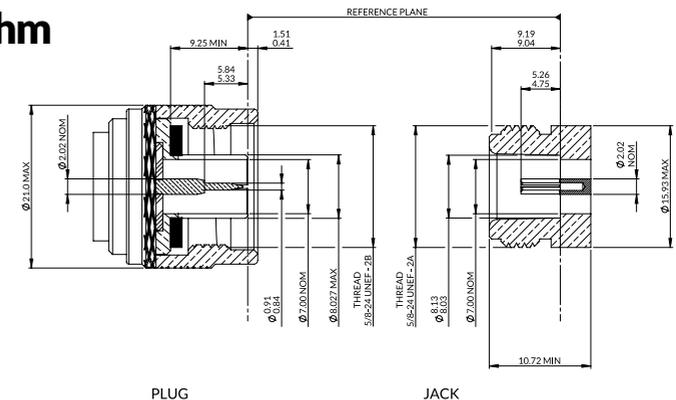




Figure 1

## Straight cable plug for flexible cable.

The range of straight N Type crimp cable plugs fit a wide selection of standard flexible and semi-rigid/conformable coaxial cables for both 50 and 75 ohm applications.

Connectors for flexible cable are crimped whereas those for semi-rigid and conformable cables are soldered. All connectors have gold plated centre contacts with nickel plated outer contact and body parts.

Crimp sizes are shown in the table and suitable tooling can be found in the Accessories & Tooling section of this catalogue.

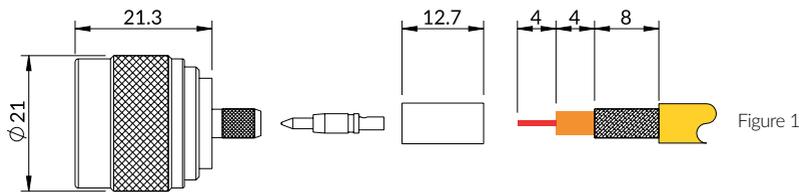


Figure 1

Assembly Procedure - AP001 & AP002 (4 part), see [www.coax-connectors.com/ap](http://www.coax-connectors.com/ap) for details



Figure 2

## Straight direct solder cable plug for semi rigid cables.

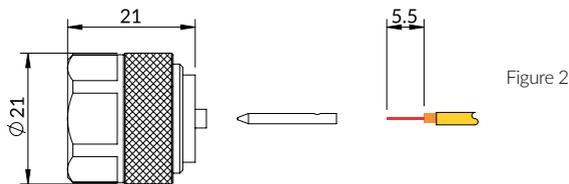


Figure 2

Assembly Procedure - AP033, see [www.coax-connectors.com/ap](http://www.coax-connectors.com/ap) for details

Part Number	Typical Cable Types (for more visit website)	Cable Group	Centre Contact mm	Outer Contact mm	Features
25-005-AO-AM	See appendix for details on page 121	AM	2.54 Hex	10.9 Hex	Figure 1
25-005-B3-AH	See appendix for details on page 120	AH	1.73 Hex	5.41 Hex	Figure 1
25-005-B3-AK	See appendix for details on page 120	AK	1.73 Hex	6.5 Hex	Figure 1
25-005-B3-AN	See appendix for details on page 121	AN	2.54 Hex	10.9 Hex	Figure 1
25-005-B3-AO	See appendix for details on page 121	AO	2.54 Hex	10.9 Hex	Figure 1
25-005-B3-AU	See appendix for details on page 121	AU	1.73 Hex	5.41 Hex	Figure 1
25-005-B3-DA	See appendix for details on page 123	DA	1.73 Hex	5.41 Hex	Figure 1
25-005-B3-DB	See appendix for details on page 123	DB	1.73 Hex	5.41 Hex	Figure 1
25-005-B3-DC	See appendix for details on page 123	DC	1.73 Hex	5.41 Hex	Figure 1
25-025-B3-DC	See appendix for details on page 123	DC	Solder	5.41 Hex	***
25-005-B3-DE	See appendix for details on page 123	DE	3.25 Hex	10.9 Hex	Figure 1 **
25-005-B6-AB	See appendix for details on page 119	AB	1.07 Sq	3.25 Hex	Figure 1 75 ohm
25-005-B6-AI	See appendix for details on page 120	AI	1.73 Hex	6.5 Hex	Figure 1 75 ohm
25-006-B3-AD	See appendix for details on page 119	AD	1.73 Hex	5.41 Hex	Figure 1 4 Part*
25-006-B3-AE	See appendix for details on page 119	AE	1.73 Hex	5.41 Hex	Figure 1 4 Part*
25-014-B3-HA	See appendix for details on page 127	HA	Solder	Solder	Figure 2 ***
25-014-B3-HB	See appendix for details on page 127	HB	Solder	Solder	Figure 2 ***

Connectors are 50 ohm unless otherwise stated. Damage may occur if 50 and 75 ohm connectors are mixed.  
 \*Items marked '4 Part' are for small cables and include a supporting sleeve for reliable assembly.  
 \*\*Soldering of centre conductor is recommended for optimum performance  
 \*\*\*Fitted with hexagon & knurl coupling nut in place of the standard knurled nut



## Straight solder / clamp cable plug.

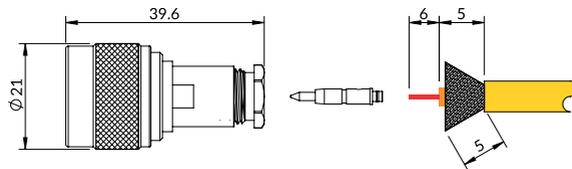
Solder clamp plugs allow connectors to be assembled without the use of specialist tooling. The contact is simply soldered to the centre conductor of the prepared cable and a clamp system completes the assembly.

Connectors are available to suit a range of both 50 and 75 ohm cables.

Centre contacts are gold plated, the outer contacts and other body parts are nickel plated.

Part Number	Typical Cable Types (for more visit website)	Cable Group	Centre Contact mm	Outer Contact mm	Features
25-001-AO-AM	See appendix for details on page 121	AM	Solder	Clamp	
25-001-B3-AH	See appendix for details on page 120	AH	Solder	Clamp	
25-001-B3-AK	See appendix for details on page 120	AK	Solder	Clamp	
25-001-B3-AN	See appendix for details on page 121	AN	Solder	Clamp	
25-001-B3-DE	See appendix for details on page 123	DE	Solder	Clamp	
25-001-B6-AI	See appendix for details on page 120	AI	Solder	Clamp	75 ohm

Connectors are 50 ohm unless otherwise stated. Damage may occur if 50 and 75 ohm connectors are mixed.



Assembly Procedure - AP016, see [www.coax-connectors.com/ap](http://www.coax-connectors.com/ap) for details

## Straight Easy-Fit cable plug.

Easy-Fit plugs are assembled without the need to solder the centre contact. Designed for use on the larger coaxial cables, the centre conductor of the stripped cable is pushed into the rear of the connector where the spring tines on the contact grip the conductor, giving a robust, solder free joint. The outer braid and jacket are terminated either by clamping or hexagon crimp, depending on the connector chosen.

The Easy Fit clamp styles are one of the simplest connectors to assemble, requiring only a cable stripper and spanners to complete the task.



Figure 1

Figure 2

Part Number	Typical Cable Types (for more visit website)	Cable Group	Centre Contact mm	Outer Contact mm	Features
25-017-B3-DE	See appendix for details on page 123	DE	Easy Fit	Clamp	Figure 1
25-018-B3-DE	See appendix for details on page 123	DE	Easy Fit	10.9 Hex	Figure 2
25-017-B3-DG	See appendix for details on page 123	DG	Easy Fit	Clamp	Figure 1
25-017-B3-DH	See appendix for details on page 123	DH	Easy Fit	Clamp	Figure 1

Connectors are 50 ohm unless otherwise stated. Damage may occur if 50 and 75 ohm connectors are mixed.

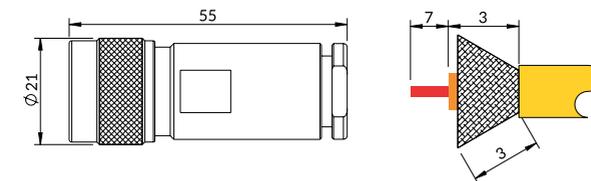


Figure 1

Assembly Procedure - AP010, see [www.coax-connectors.com/ap](http://www.coax-connectors.com/ap) for details

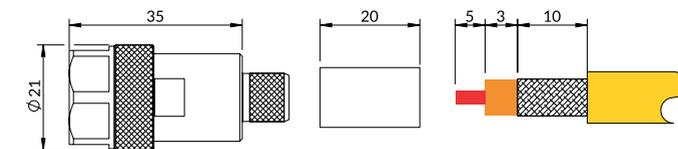


Figure 2

Assembly Procedure - AP25-018, see [www.coax-connectors.com/ap](http://www.coax-connectors.com/ap) for details

## Right angle cable plug.

Right angle plugs for assembly to a wide range of flexible cables. Centre conductors are soldered. Options are available for either clamp or crimp fixing of the outer conductor, these options vary according to cable type.

Centre conductors are gold plated and outer conductor and other body parts are nickel plated.

Crimp sizes are shown in the table and suitable tooling can be found in the Accessories & Tooling section of this catalogue.



Part Number	Typical Cable Types (for more visit website)	Cable Group	Centre Contact mm	Outer Contact mm	Features
25-105-A3-AH	See appendix for details on page 120	AH	Solder	5.41 Hex	Figure 1
25-105-A3-AU	See appendix for details on page 121	AU	Solder	5.41 Hex	Figure 1
25-105-B3-AD	See appendix for details on page 119	AD	Solder	3.25 Hex	Figure 1
25-105-B3-AE	See appendix for details on page 119	AE	Solder	3.84 Hex	Figure 1
25-105-B3-AK	See appendix for details on page 120	AK	Solder	6.5 Hex	Figure 1
25-105-B3-AN	See appendix for details on page 121	AN	Solder	10.9 Hex	Figure 1
25-101-B3-AN	See appendix for details on page 121	AN	Solder	Clamp	Figure 2
25-105-B3-AO	See appendix for details on page 121	AO	Solder	10.9 Hex	Figure 1
25-109-B3-AO	See appendix for details on page 121	AO	Solder	10.9 Hex	Figure 1*
25-109-B3-DB	See appendix for details on page 123	DB	Solder	5.41 Hex	Figure 1*
25-110-B3-DE	See appendix for details on page 123	DE	Solder	10.9 Hex	Figure 1*
25-101-B3-DE	See appendix for details on page 123	DE	Solder	Clamp	Figure 2

\*Coupling nut has hexagon & knurl in place of standard knurl

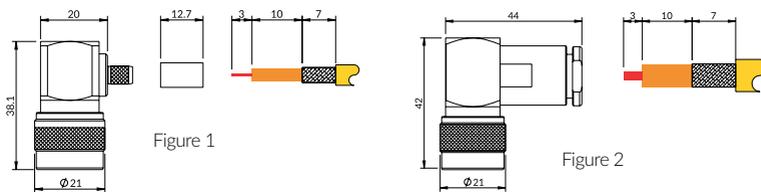


Figure 1

Figure 2

Assembly Procedure - AP0017 (crimp) AP015 (clamp), see [www.coax-connectors.com/ap](http://www.coax-connectors.com/ap) for details

## Bulkhead and flange mount plugs.

Various options for bulkhead mounting plugs are offered including 4 hole flange and double D hole mounting.

Centre contacts are all gold plated, the 4 hole flange versions are bright nickel plated whereas the single hole bulkhead mount connector is non reflective black nickel plated.

The cable version is assembled by crimping the centre and outer conductors. Crimp sizes are shown in the table and suitable tooling can be found in the Accessories & Tooling section of this catalogue.

Figure 3



Figure 2



Figure 1



Part Number	Typical Cable Types (for more visit website)	Cable Group	Centre Contact mm	Outer Contact mm	Features
25-322-B3-AD	See appendix for details on page 119	AD	1.73 Hex	5.41 Hex	Figure 3 4 Hole flange
25-233-A3			Solder bucket		Figure 2 4 Hole flange
25-364-J3			Solder bucket		Figure 1 Black nickel plated. Includes nut and washer

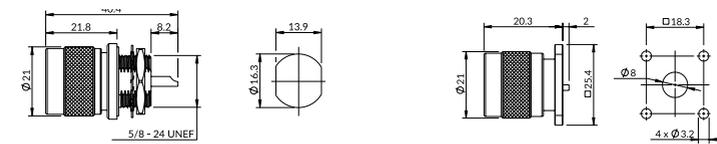


Figure 1

Figure 2

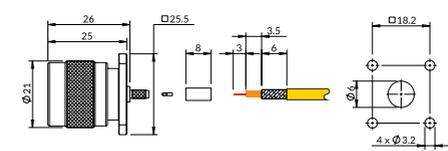


Figure 3

Assembly Procedure - AP019 (25-322-A3), see [www.coax-connectors.com/ap](http://www.coax-connectors.com/ap) for details



## Straight crimp cable jack.

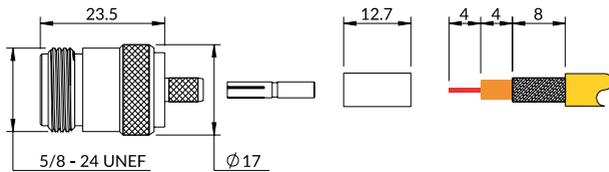
Crimp jacks are available for a range of standard coaxial cables.

Centre conductors are gold plated, outer conductor and body parts are nickel plated.

Crimp sizes are shown in the table and suitable tooling can be found in the Accessories & Tooling section of this catalogue.

Part Number	Typical Cable Types (for more visit website)	Cable Group	Centre Contact mm	Outer Contact mm	Features
25-054-B3-AD	See appendix for details on page 119	AD	1.73 Hex	5.41 Hex	
25-054-B3-AH	See appendix for details on page 120	AH	1.73 Hex	5.41 Hex	
25-054-B3-AK	See appendix for details on page 120	AK	2.54 Hex	6.5 Hex	
25-054-B3-AN	See appendix for details on page 121	AN	2.54 Hex	10.9 Hex	
25-054-B3-AO	See appendix for details on page 121	AO	2.54 Hex	10.9 Hex	
25-054-B3-DB	See appendix for details on page 123	DB	1.73 Hex	5.41 Hex	
25-054-B3-DE	See appendix for details on page 123	DE	3.25 Hex	10.9 Hex	*
25-054-B6-AI	See appendix for details on page 120	AI	1.73 Hex	6.5 Hex	75 ohm

Connectors are 50 ohm unless otherwise stated. Damage may occur if 50 and 75 ohm connectors are mixed.  
\* Soldering of centre conductor is recommended for optimum performance



Assembly Procedure - AP001, see [www.coax-connectors.com/ap](http://www.coax-connectors.com/ap) for details



Note - 50 and 75 ohm versions of N Type connectors are not compatible and permanent damage to the connector may occur if mated.

## Straight clamp & Easy-Fit cable jack.

For simpler assembly the clamp and Easy-Fit range of cable jacks require less tooling to assemble.

Clamp jacks require only soldering of the centre conductor, the braid and jacket use a clamp mechanism to complete the assembly. Easy-Fit connectors feature a centre contact where the conductor is pushed in and gripped by spring tines, giving a reliable and simple termination.

Centre conductors are gold plated, outer conductor and body parts are nickel plated.

Tooling can be found in the Accessories & Tooling section of this catalogue.



Figure 1

Figure 2

Part Number	Typical Cable Types (for more visit website)	Cable Group	Centre Contact mm	Outer Contact mm	Features
25-050-B3-AH	See appendix for details on page 120	AH	Solder	Clamp	Figure 1
25-050-B3-AN	See appendix for details on page 121	AN	Solder	Clamp	Figure 1
25-050-B6-AI	See appendix for details on page 120	AI	Solder	Clamp	Figure 1 75 ohm
25-051-B3-AN	See appendix for details on page 121	AN	Solder	Clamp	Figure 1
25-067-B3-DH	See appendix for details on page 123	DH	Solderless	Clamp	Figure 1 Easy Fit
25-068-B3-DE	See appendix for details on page 123	DE	Solderless	10.9 Hex	Figure 2 Easy Fit

Connectors are 50 ohm unless otherwise stated. Damage may occur if 50 and 75 ohm connectors are mixed.

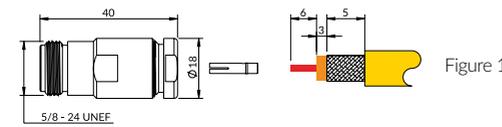


Figure 1

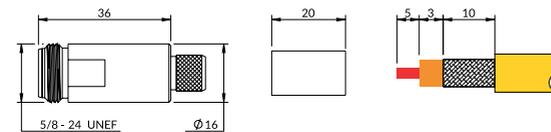


Figure 2

Part Number	Assembly Procedure
25-050-B3-AH	AP010
25-050-B3-AN	AP010
25-050-B6-AI	AP016
25-051-B3-AN	AP016
25-067-B3-DH	AP25-010
25-068-B3-DE	AP025-016

See [www.coax-connectors.com/ap](http://www.coax-connectors.com/ap) for details



Figure 1

Figure 2

## Straight bulkhead rear mount cable jack.

Bulkhead mount jacks are available for a range of standard flexible and semi-rigid coaxial cables.

Centre conductors are gold plated, outer conductor and body parts are nickel plated.

Connectors for flexible cable have crimped centre contacts, outer contacts are also crimped. When fitted to semi-rigid or conformable cables, centre contacts are soldered and the outer conductor is soldered directly to the rear body of the connector.

A seal on the flange provides IP67 protection.

Crimp sizes are shown in the table and suitable tooling can be found in the Accessories & Tooling section of this catalogue.

Part Number	Typical Cable Types (for more visit website)	Cable Group	Centre Contact mm	Outer Contact mm	Features
25-254-B3-AN	See appendix for details on page 121	AN	2.54 Hex	10.9 Hex	Figure 1
25-254-B3-DB	See appendix for details on page 123	DB	1.73 Hex	5.41 Hex	Figure 1
25-254-B3-DH	See appendix for details on page 123	DH	Solder	Crimp	Figure 1
25-255-B3-AD	See appendix for details on page 119	AD	2.54 Hex	5.41 Hex	Figure 2 5 part
25-255-B3-AH	See appendix for details on page 120	AH	1.73 Hex	5.41 Hex	Figure 2
25-255-B3-AK	See appendix for details on page 120	AK	1.73 Hex	6.5 Hex	Figure 2
25-255-B3-DE	See appendix for details on page 123	DE	2.54 Hex	10.9 Hex	Figure 2 *
25-255-H3-HA	See appendix for details on page 127	HB	Solder	Solder	Direct Solder 2 Flats**
25-255-H3-HB	See appendix for details on page 127	HB	Solder	Solder	Direct Solder 2 Flats**

\* For optimum performance, the centre conductor should be soldered, use assembly procedure AP004.  
\*\* Outline not shown, contact COAX for details.

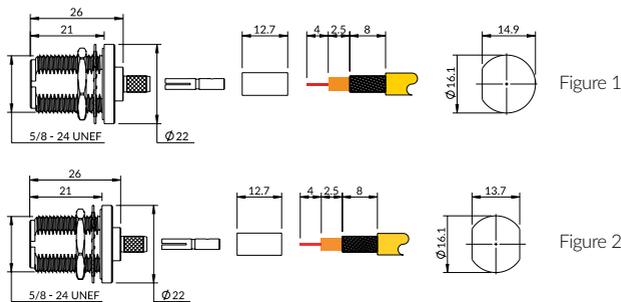


Figure 1

Figure 2

Assembly Procedure - AP001 & AP036 (5 part) AP033 (Direct Solder)  
See [www.coax-connectors.com/ap](http://www.coax-connectors.com/ap) for details

## Straight flange mount cable jack, crimp & direct solder.

Flange mount cable jacks for both flexible and semi-rigid cables, with a range of different 4 hole flange sizes.

Centre conductors are gold plated, outer conductor and body parts are nickel plated.

Crimp sizes are shown in the table and suitable tooling can be found in the Accessories & Tooling section of this catalogue.



Part Number	Typical Cable Types (for more visit website)	Cable Group	Centre Contact mm	Outer Contact mm	Features
25-278-B3-AE	See appendix for details on page 119	AE	1.73 Hex	5.41 Hex	Figure 1
25-278-B3-AH	See appendix for details on page 120	AH	1.73 Hex	5.41 Hex	Figure 1
25-278-B3-AK	See appendix for details on page 120	AK	1.73 Hex	6.5 Hex	Figure 1
25-278-B3-AN	See appendix for details on page 121	AN	2.54 Hex	10.9 Hex	Figure 1
25-279-B3-HA	See appendix for details on page 127	HA	Solder	Solder	Figure 3 Sealed
25-279-B3-HB	See appendix for details on page 127	HB	Solder	Solder	Figure 3 Sealed
25-279-B3-HA-17.5mm	See appendix for details on page 127	HA	Solder	Solder	Figure 2 Sealed
25-283-Q3-HA-17.5mm	See appendix for details on page 127	HA	Solder	Solder	Figure 2 White Bronze plated body

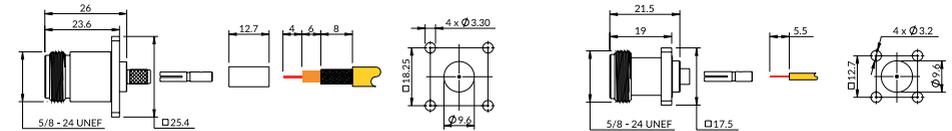


Figure 1

Figure 2

Figure 3

Assembly Procedure - AP001 & AP033 (Direct Solder), see [www.coax-connectors.com/ap](http://www.coax-connectors.com/ap) for details



## Front mount bulkhead jack.

Front mounted jacks with solder bucket termination. This connector is supplied complete with fixing nut and either with or without solder tag.

Centre conductors are gold plated, outer conductor and body parts are nickel plated.

Part Number	Centre Contact	Features
25-350-B3	Solder bucket	Connector and nut only - Figure 1
25-360-B3	Solder bucket	Connector with solder tag and nut - Figure 2

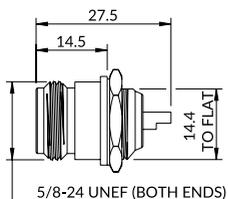


Figure 1

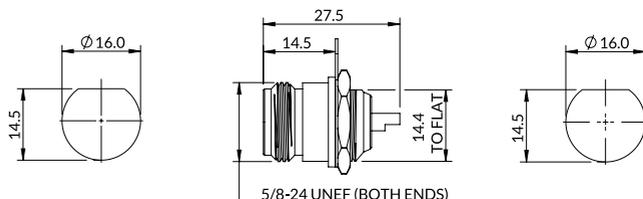


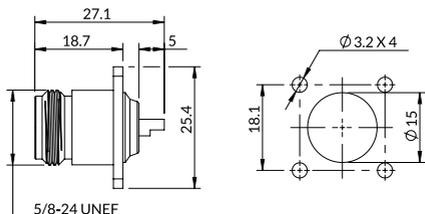
Figure 2



## Bulkhead 4 hole flange mount jack.

Flange mount cable jacks with solder bucket termination. Centre conductors are gold plated, outer conductor and body are nickel plated.

Part Number	Centre Contact	Features
25-371-B3	Solder bucket	1" (25.4mm) square flange



## Dust cap & shorting cap.

Dust caps provide IP67 protection for an unmated connector port. Shorting caps can also be supplied.

Caps are fitted with gold plated centre contacts, the outer body parts are nickel plated.

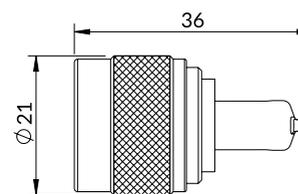
Part Number	Descriptions
25-850-Z	Plug Dust Cap (Not illustrated)
25-852-Z	Jack Dust Cap (Not illustrated)
25-859-Z	Plug Shorting Cap
25-858-Z	Jack Shorting Cap



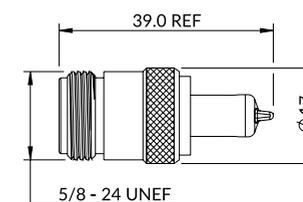
Plug shorting cap.



Jack shorting cap.



Plug shorting cap.



Jack shorting cap.

# Adaptors.

Adaptors in a range of configurations for connection within the series of N Type connectors. For connecting N Types to other coaxial connector types, see our range of Inter Series Adaptors.

All adaptors have gold plated centre contacts and bodies are nickel plated.

Important note - All adaptors shown are 50 ohm and must not be mated with 75 ohm connectors or damage will occur.

Figure 1

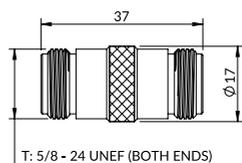


Figure 2

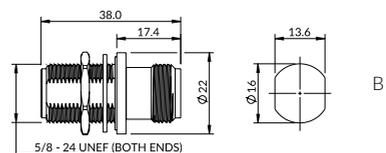
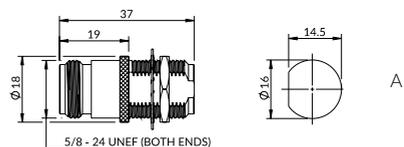


Figure 3

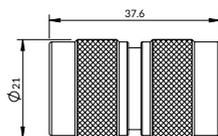
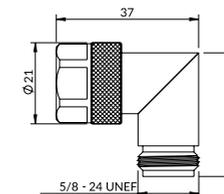
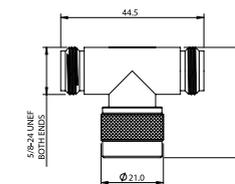


Figure 4



**NOW  
18GHz**

Figure 5



Part Number	Left	Interface Arrangement Centre	Right	Features
25-500-B3	Jack		Jack	Figure 1
25-501-B3-3GHz	Jack		Jack	Figure 2A, 3GHz
25-501-B3	Jack		Jack	Figure 2B
25-514-B3	Plug		Plug	Figure 3
25-520-B3-3GHz	Jack		Plug	Figure 4, 3GHz
25-520-H3	Jack		Plug	Figure 4, 12GHz
25-520-B3	Jack		Plug	Figure 4 (without hex nut)
25-523-A3	Jack	Plug	Jack	Figure 5

## DIN 41626 inserts.

DIN 41626 inserts. Coaxial connectors used in conjunction with DIN 41612 mixed layout housings. A metal 'C' clip on the connector body locks into the plastic housing of the DIN 41612 which also allows sufficient float for correct mating.

These inserts have gold plated centre and outer contact and are suitable for use up to 2GHz

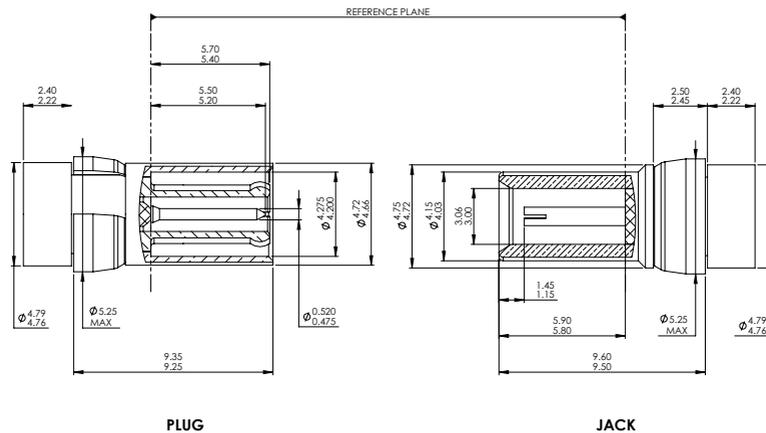


## Specification.

Electrical Specification		Environmental Specification	
Impedance	50 ohm	Operation temperature	-55 to +155 Deg C
Frequency Range	Up to 2GHz	IP Rating (Mated)	IP40
Dielectric Withstand Voltage	250 Veff		
Insulation Resistance	200M-ohm		
Mechanical Specification		Materials	
Design Standard	IEC 41626	Centre Contact	Beryllium Copper
ROHS Compliant	Yes	Outer Contact	Brass/Phosphur Bronze
Mating Cycles	500	Insulator	PTFE
Contact Retention	10N min		
Mating Force	10N max	Centre Contact Plating	Gold
Un-coupling Force	10N max	Outer Contact Plating	Gold

The above values are typical. Please check product data sheets for full details - see [www.coax-connectors.com](http://www.coax-connectors.com) or call +44(0)20 8538 9090

## DIN 41626 interface.



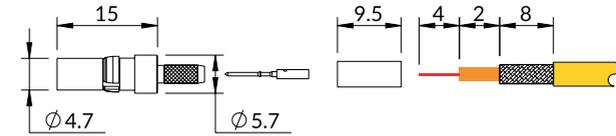
## Cable plug.

A cable mounted cable plug, the gold plated centre and outer conductors are crimped using standard crimp methods.

Crimp sizes are shown in the table and suitable tooling can be found in the accessories section of this catalogue. The 'C' clip locks the connector to the DIN 41612 housing and provides float for ease of mating.



Part Number	Typical Cable Types (for more visit website)	Cable Group	Centre Contact mm	Outer Contact mm	Features
29-005-D3-AD	See appendix for details on page 119	AD	1.07 Sq	3.25 Hex	

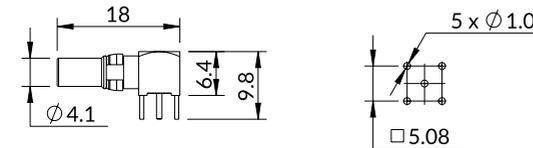


Assembly Procedure - AP001, see [www.coax-connectors.com/ap](http://www.coax-connectors.com/ap) for details

## PCB jack.

A right angle PCB jack with gold plated centre and outer conductors and 'C' for mounting to the DIN 41612 housing.

Part Number	Centre Contact	Outer Contact	Features
29-468-D6	Solder	Solder	PCB mount





## SMA connectors.

SMA sub-miniature series are a popular general purpose high performance 50 ohm connector. SMA have a screw together coupling with versions available for use up to 12.5GHz and feature gold plated bodies and centre contacts. SMA connectors are suited to a wide variety of industries from high performance applications in defence and aerospace to general purpose industrial. Reverse polarity versions are also available.

Also included are a selection of IP68 rated bulkhead jacks shown on page 85. These IP68 rated parts are sealed in both the mated and un-mated condition, so are ideal for use where protection of the internal electronics is required.

### Key features:

- Excellent RF performance
- Most popular sub-miniature connector world-wide
- Reliable and secure nut coupling
- For use with flexible and semi-rigid cables
- Wide range of body styles

SMA	Page
Straight solder clamp plug	78
Straight Easy Fit crimp plug	78
Straight crimp plug	79
Straight & right angle direct solder plug for semi rigid cable	80
Right angle crimp plug	81
Flange mount plug	81
End launch PCB plug	82
Straight crimp jack	84
IP68 bulkhead jack	85
Straight Easy-Fit cable jack	86
Straight bulkhead rear mount jack	87
Bulkhead Jack	87
Straight PCB jack	88
Right angle PCB jack	89
End launch PCB jack	90
End launch bulkhead jack	91
Straight flange mount jack	92
Shorting cap / Dust cap	93
Attenuator	93
Adaptors	94-95
Reverse Polarity	96-97



A variety of IP68 rated connectors are now available

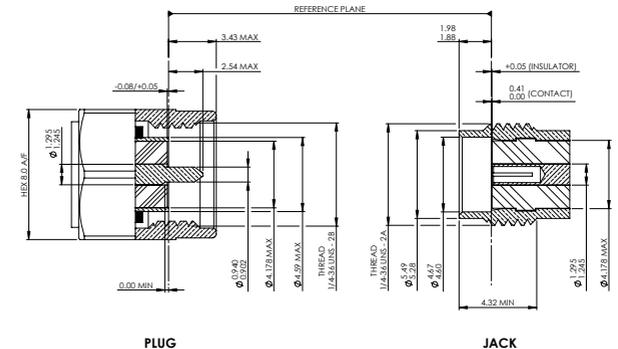


## Specification.

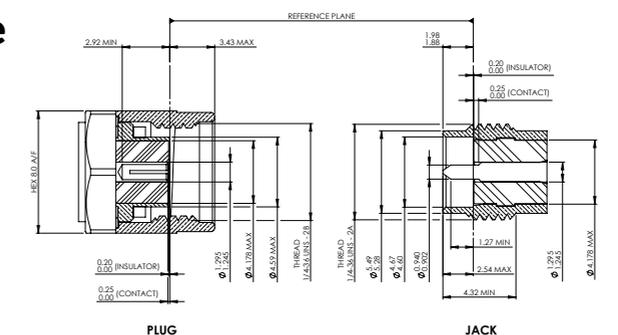
Electrical Specification		Environmental Specification	
Impedance	50 ohm	Operation temperature	-55 to +155 Deg C (IP68 -40 to +85)
Frequency Range	Up to 12.5GHz	IP Rating (Mated)	IP67 standard IP68 see page 83
Dielectric Withstand Voltage	750 Veff		
Insulation Resistance	5000 M-ohm		
Mechanical Specification		Materials	
Design Standard	IEC-61169-15	Centre Contact	Brass/Beryllium Copper
ROHS Compliant	Yes	Outer Contact	Brass
Mating Cycles	500*	Insulator	PTFE
Contact Retention	22N min	Coupling Nut	Brass
Coupling Nut Torque	0.25Nm max	Centre Contact Plating	Gold
		Outer Contact Plating	Gold

\*When mated with a connector made of the same material.  
The above values are typical. Please check product data sheets for full details - see [www.coax-connectors.com](http://www.coax-connectors.com) or call +44 (0)20 8538 9090

## SMA interface.



## SMA reverse polarity interface.



## Straight solder clamp plug.

Figure 1

Straight clamp plugs can be assembled without the use of specialist crimp tooling. The centre conductor is soldered to the contact and the cable and braid are held in place by a simple clamp mechanism.

Inner contact and other body parts are gold plated.

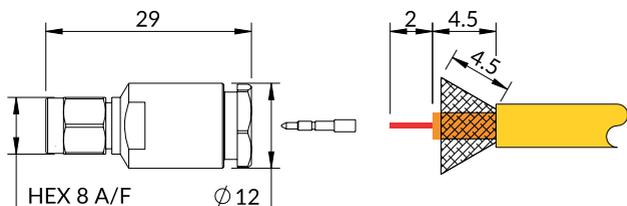


Figure 1

Assembly Procedure - AP018, see [www.coax-connectors.com/ap](http://www.coax-connectors.com/ap) for details

Part Number	Typical Cable Types (for more visit website)	Cable Group	Centre Contact	Outer Contact	Features
30-001-D3-AH	See appendix for details on page 119	AH	Solder	Clamp	Figure 1
30-018-B3-DE	See appendix for details on page 119	AK	Easy Fit	Crimp	Figure 2

Figure 2

## Straight plug Easy Fit/crimp.

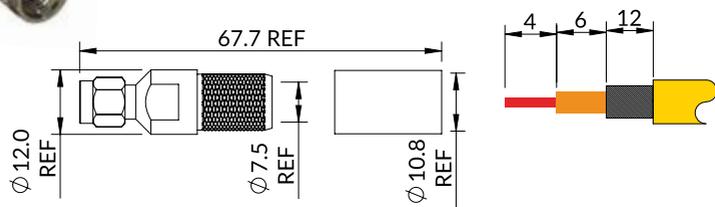


Figure 2

Assembly Procedure - AP25-018, see [www.coax-connectors.com/ap](http://www.coax-connectors.com/ap) for details

## Straight crimp plug.

These SMA plugs have gold plated crimped or soldered centre contacts and crimped outer conductor giving a high reliability connection. For best performance centre contacts should be crimped.

Inner contact and other body parts are gold plated.

See table for crimp sizes; suitable tooling can be found in the Accessories & Tooling section of this catalogue.

Part Number	Typical Cable Types (for more visit website)	Cable Group	Centre Contact mm	Outer Contact mm	Features
30-005-B3-AD	See appendix for details on page 119	AD	1.07 Sq	3.25 Hex	Figure 1
30-005-B3-AH	See appendix for details on page 120	AH	1.73 Hex	5.41 Hex	Figure 1
30-005-B3-DB	See appendix for details on page 123	DB	1.73 Hex	5.41 Hex	Figure 1
30-005-D3-AA	See appendix for details on page 119	AA	1.07 Sq	3.25 Hex	Figure 1
30-005-D3-AD	See appendix for details on page 119	AD	1.07 Sq	3.25 Hex	Figure 1
30-005-D3-AE	See appendix for details on page 119	AE	1.07 Sq	3.84 Hex	Figure 1
30-005-D3-AH	See appendix for details on page 120	AH	1.73 Hex	5.41 Hex	Figure 1
30-005-D3-AK	See appendix for details on page 120	AK	1.73 Hex	6.5 Hex	Figure 1
30-005-D3-DA	See appendix for details on page 123	DA	1.73 Hex	5.41 Hex	Figure 1
30-005-D3-DB	See appendix for details on page 123	DB	1.73 Hex	5.41 Hex	Figure 1
30-008-D3-AH	See appendix for details on page 120	AH	Solder	5.41 Hex	Figure 2
30-008-D3-DE	See appendix for details on page 123	DE	Solder	10.9 Hex	Figure 2

Figure 1

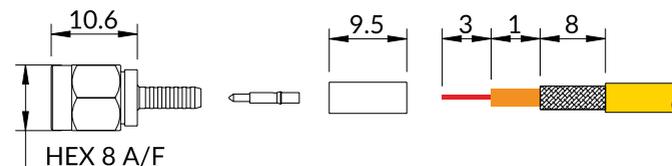
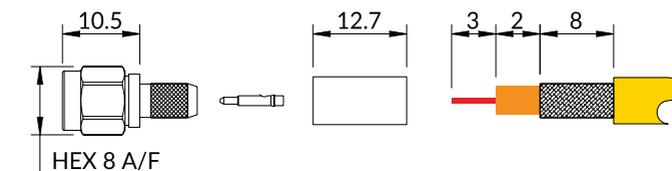


Figure 2



Assembly Procedure - AP001 & AP004 (solder), see [www.coax-connectors.com/ap](http://www.coax-connectors.com/ap) for details

## Straight & right angle direct solder plug for semi rigid cable.

For use with semi-rigid or conformable cables, these straight and right angle plugs are soldered directly to the cables. The centre conductor is soldered to the contact and the outer jacket of the cable is soldered directly to the rear body of the connector. The right angle version has a small cap which is then used to cover over the contact joint.

Inner contact and other body parts are gold plated.



Part Number	Typical Cable Types (for more visit website)	Cable Group	Centre Contact mm	Outer Contact mm	Features
30-014-D3-HA	See appendix for details on page 127	HA	Solder	Solder	Straight, Figure 1
30-014-D3-HB	See appendix for details on page 127	HB	Solder	Solder	Straight, Figure 1
30-108-D3-HA	See appendix for details on page 127	HA	Solder	Solder	Right Angle, Figure 2
30-108-D3-HB	See appendix for details on page 127	HB	Solder	Solder	Right Angle, Figure 2

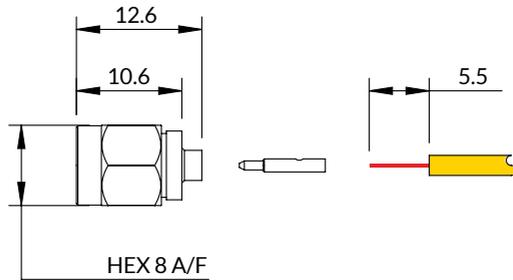


Figure 1

Assembly Procedure - AP033, see [www.coax-connectors.com/ap](http://www.coax-connectors.com/ap) for details

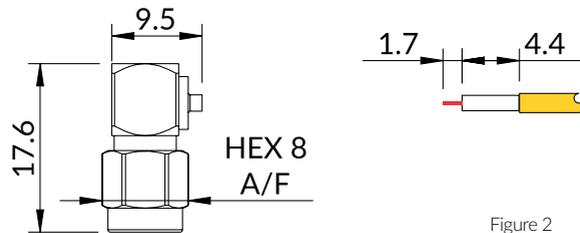


Figure 2

Assembly Procedure - AP044, see [www.coax-connectors.com/ap](http://www.coax-connectors.com/ap) for details

## Right angle crimp plug.

These right angle connectors have a fixed centre contact which is soldered through an aperture in the body. Once soldered the aperture is sealed with a cap and the outer braid conductor is crimped to complete the assembly.

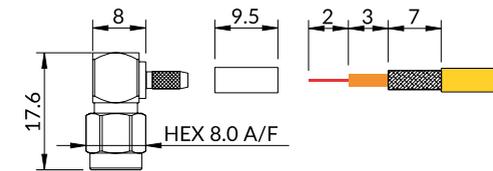
Inner contact and other body parts are gold plated.

See table for crimp sizes; suitable tooling can be found in the Accessories & Tooling section of this catalogue.



Part Number	Typical Cable Types (for more visit website)	Cable Group	Centre Contact mm	Outer Contact mm	Features
30-105-D3-AA	See appendix for details on page 119	AA	Solder	3.25 Hex	4 part*
30-105-D3-AD	See appendix for details on page 119	AD	Solder	3.25 Hex	
30-105-D3-AE	See appendix for details on page 119	AE	Solder	3.84 Hex	
30-105-D3-AH	See appendix for details on page 120	AH	Solder	5.41 Hex	
30-105-D3-AK	See appendix for details on page 120	AK	Solder	6.5 Hex	

\*Items marked '4 Part' are for small cables and include a supporting sleeve for reliable assembly.



Assembly Procedure - AP017, see [www.coax-connectors.com/ap](http://www.coax-connectors.com/ap) for details

## Flange mount plug.

These 2 hole flange mount plugs have a solder stub contact and are available with either flush or extended dielectric.

Inner contact and other body parts are gold plated.



Part Number	Centre Contact	Features
30-319-D3	Solder - Stub contact	Figure 1
30-321-D3	Solder - Stub contact	Figure 2 - Extended dielectric
30-323-D3	Solder - Stub contact	4 hole 12.7mm square flange Not Shown

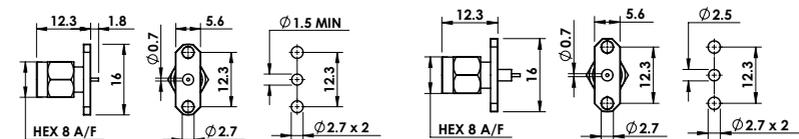


Figure 1

Figure 2

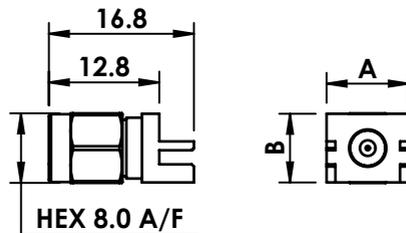
## End launch PCB plug.

This SMA plug is for fitting to the edge of a PCB. The gold plated inner contact and outer body are soldered to pads on the board.

Versions to suit either 1.22mm or 1.6mm boards are available.



Part Number	Dimension A (mm)	Dimension B (mm)	Centre Contact	Outer Contact	Features
30-427-D3-1.22	6.4	6.4	Solder	Solder	To suit 1.22mm thick PCB
30-428-D3-1.6	9.5	7.9	Solder	Solder	To suit 1.6mm thick PCB



## SMA - IP68 sealed bulkhead connectors.

To support the increasing demand for high performance connectors used in more challenging environments, a range of SMA connectors incorporating IP68 sealing has been developed. These connectors are sealed when mated or unmated giving protection in water to a depth of 10 metres for at least 4 hours.

### Key features:

- IP68 Unmated
- Watertight at 10 metre depth for 4 hours
- Excellent RF performance
- Reliable and secure nut coupling
- IP68 Bulkhead sealed

Full details on the following pages

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



## Straight crimp jack.

Straight cable jacks for cable mounting. These jacks fit a range of popular cables and have crimped centre and outer contacts.

Inner contact and other body parts are gold plated.

See table for crimp sizes; suitable tooling can be found in the Accessories & Tooling section of this catalogue.

Part Number	Typical Cable Types (for more visit website)	Cable Group	Centre Contact mm	Outer Contact mm	Features
30-054-B3-AD	See appendix for details on page 119	AD	1.07 Sq	3.25 Hex	Figure 1 Nickel Body
30-054-D3-AD	See appendix for details on page 119	AD	1.07 Sq	3.25 Hex	Figure 1
30-069-D3-AD	See appendix for details on page 119	AD	1.07 Sq	3.25 Hex	Figure 2
30-054-D3-AA	See appendix for details on page 119	AA	1.07 Sq	3.25 Hex	Figure 1
30-054-D3-AE	See appendix for details on page 119	AE	1.07 Sq	3.84 Hex	Figure 1
30-054-D3-AH	See appendix for details on page 120	AH	1.73 Hex	5.41 Hex	Figure 1
30-054-D3-AK	See appendix for details on page 120	AK	1.73 Hex	6.5 Hex	Figure 1
30-063-D3-HA	See appendix for details on page 127	HB	Solder	Solder	Details not shown

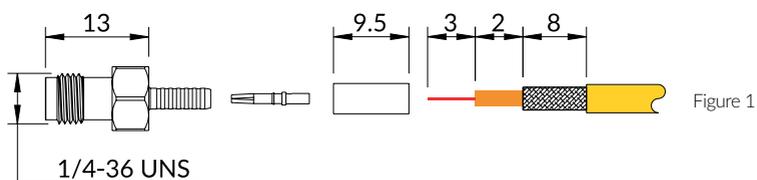


Figure 1

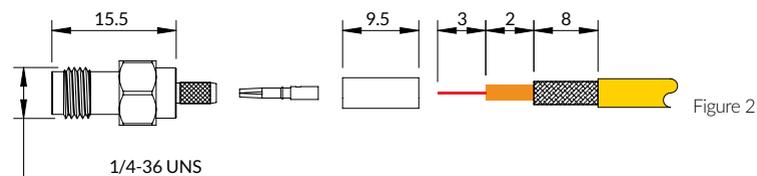


Figure 2

Assembly Procedure - AP001, see [www.coax-connectors.com/ap](http://www.coax-connectors.com/ap) for details

## Straight bulkhead rear mount cable jack.

These bulkhead mounted cable jacks have a panel seal to prevent moisture passing through the panel when connectors are mated. We also include an IP68 version which will offer the same protection when un-mated.

Connectors shown here are for both flexible and semi-rigid cables. Those to suit flexible cables utilise crimped centre and outer contacts. The versions for semi-rigid type cables have a soldered centre contact and the outer jacket is soldered directly to the spigot at the rear of the body.

Inner contact and other body parts are gold plated. Connectors are supplied complete with nut and lock washer for bulkhead assembly.

See table for crimp sizes; suitable tooling can be found in the Accessories & Tooling section of this catalogue.



Figure 1



Figure 2



Figure 3

Outline drawings and assembly information for these bulkhead jacks is shown on the following page

Part Number	Typical Cable Types (for more visit website)	Cable Group	Centre Contact mm	Outer Contact mm	Features
30-254-D3-AD	See appendix for details on page 119	AD	1.07 Sq	3.25 Hex	Figure 1
30-290-D10-AD	See appendix for details on page 119	AD	1.07 Sq	3.25 Hex	Figure 3 IP68 Un-mated
30-254-D3-AE	See appendix for details on page 119	AE	1.07 Sq	3.84 Hex	Figure 1
30-254-D3-AH	See appendix for details on page 120	AH	1.73 Hex	5.41 Hex	Figure 1
30-254-D3-AK	See appendix for details on page 120	AK	1.73 Hex	6.5 Hex	Figure 1
30-256-B3-AA	See appendix for details on page 119	AA	1.07 Sq	3.25 Hex	Figure 1, 4 Part* Nickel plated body
30-256-D3-AA	See appendix for details on page 119	AA	1.07 Sq	3.25 Hex	Figure 1, 4 Part*
30-282-D3-AA	See appendix for details on page 119	AA	1.07 Sq	3.25 Hex	Details not shown
30-266-D3-HA	See appendix for details on page 127	HA	Solder	Solder	Figure 2 Direct Solder
30-266-D3-HB	See appendix for details on page 127	HB	Solder	Solder	Figure 2 Direct Solder

\*Items marked '4 Part' are for small cables and include a supporting sleeve for reliable assembly.

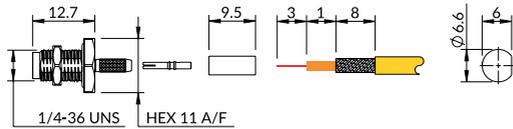


Figure 1

Assembly Procedure - AP001 (30-254) & AP002 (30-256) see [www.coax-connectors.com/ap](http://www.coax-connectors.com/ap) for details

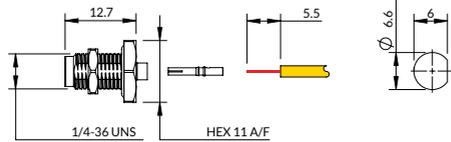
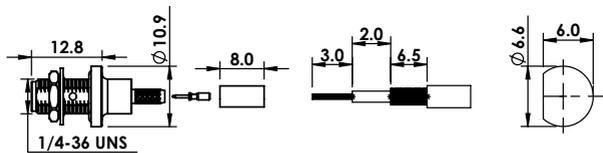


Figure 2

Assembly Procedure - AP001 (30-254) - AP002 (30-256) - AP033 (30-266)  
See [www.coax-connectors.com/ap](http://www.coax-connectors.com/ap) for details



Assembly Procedure - AP050 See [www.coax-connectors.com/ap](http://www.coax-connectors.com/ap) for details

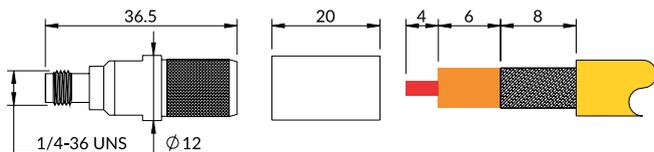
## Straight Easy Fit cable jack.

Easy Fit connectors offer a simple and speedy termination method where the centre contact is pre-assembled into the connector. The prepared cable is simply pushed into the rear of the connector and the centre conductor is captivated by the contact. To complete the assembly the outer conductor is crimped using industry standard tooling.

For more information on tooling, see the Accessories & Tooling section of this catalogue.

The centre contact is gold plated and outer body parts nickel plated.

Part Number	Typical Cable Types (for more visit website)	Cable Group	Centre Contact	Outer Contact mm	Features
30-068-B3-DE	See appendix for details on page 123	DE	Easy Fit	10.9 Hex	



Assembly Procedure - AP25-018, see [www.coax-connectors.com/ap](http://www.coax-connectors.com/ap) for details

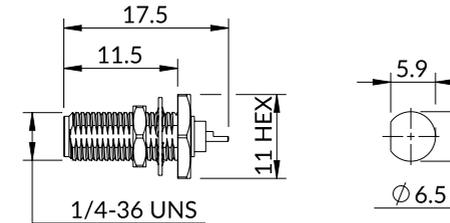
## Rear mount bulkhead solder jack.

This rear mount bulkhead jack has a solder bucket centre contact and is supplied complete with fixing nut and lock washer.

Centre contact and body are gold plated.



Part Number	Centre Contact	Outer Contact	Features
30-352-D3	Solder bucket	Bulkhead mount	Nut and washer included



## Straight bulkhead jack front mount.

Front mount bulkhead jacks with either solder bucket or round stub contact and include an hermetically sealed variant.

Centre contact and body are gold plated, fixing hardware is not included.

IP68



Part Number	Centre Contact	Outer Contact	Features
30-348-D3	Solder	Panel mounted	Figure 1 - Round contact
30-360-D3	Solder	Panel mounted	Figure 1 - Solder bucket
30-349-D3	Solder	Panel mounted	Figure 2 IP68 protected - Round contact

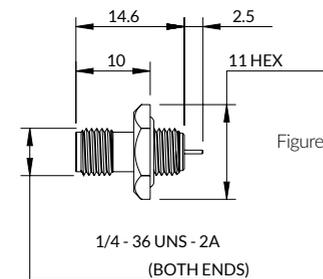


Figure 1

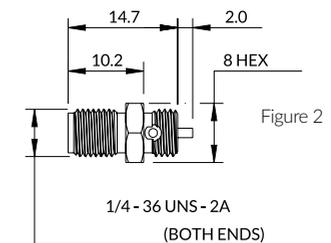


Figure 2

## Straight PCB jack.

Through hole solder straight SMA jacks are available for standard PCB mounting or for additional bulkhead fitting. The bulkhead mounted version is supplied with fixing nut and lock washer as standard.

Centre contact and body are gold plated.



Figure 1



Figure 2



Figure 3



Figure 4

Part Number	Centre Contact	Outer Contact	Dimension A (mm)	Dimension B (mm)	Dimension C (mm)	Features
30-450-D3	Solder	Solder				Figure 1
30-454-D3	Solder	Solder	15.5	12.7	1.5	Figure 2 - Supplied complete with nut and lock washer
30-454-D3-5.7	Solder	Solder	19.7	16.9	5.7	Figure 3 - Supplied complete with nut and lock washer
30-455-D3	Solder	Solder				Figure 4 - IP67 bulkhead seal Supplied complete with nut and washer

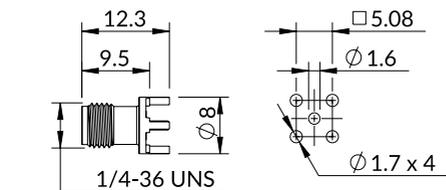


Figure 1

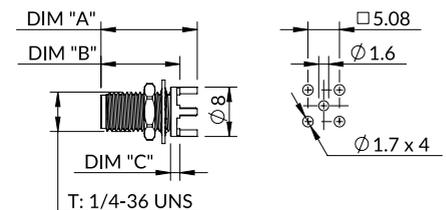


Figure 2 & 3

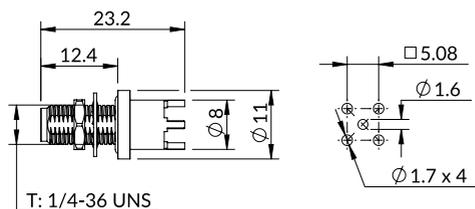


Figure 4

## Right angle PCB jack.

Right angle SMA jacks are available for either through hole soldering or with co-planar legs for surface mounting.

An IP68 extended thread, bulkhead mount, through hole soldered version is available, this version is supplied complete with fixing nut and lock washer.

Centre contact and body are gold plated.



Figure 1



Figure 2

IP68



Figure 3

Part Number	Centre Contact	Outer Contact	Features
30-465-D3	Solder	Solder	Figure 1 Through hole solder
30-467-D3	Solder	Solder	Figure 2 For surface mounting (coplanar centre and outer contacts)
30-468-1-D3	Solder	Solder	Figure 3 Through hole solder. IP68 sealed

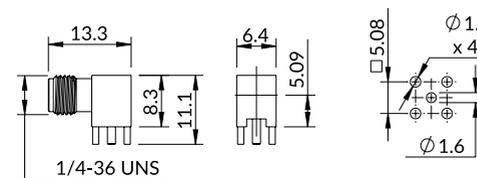


Figure 1

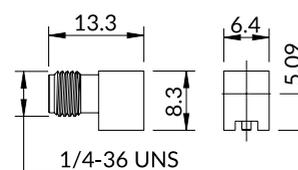


Figure 2

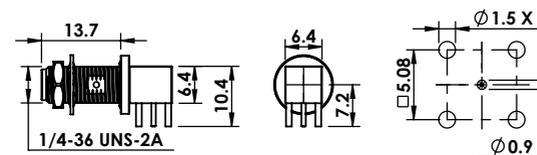


Figure 3

## End launch PCB jack.



Figure 1

For edge mount fitting to standard 1.6mm or 1.8mm thick PCBs, these connectors provide low profile mounting to solder pads on the board edge.

Options include a version with the centre line of the contact aligned to the plane of the PCB and a bulkhead mount version.

Centre contact and body are gold plated and the bulkhead fixing version includes a fixing nut and lock washer.



Figure 2



Figure 3

Part Number	Centre Contact	Outer Contact	PCB nominal thickness	Features
30-390-D3-1.6	Solder	Solder	1.6mm	Figure 1 Contact in alignment with PCB
30-459-D3 - 1.6mm	Solder	Solder	1.6mm	Figure 2
30-462-D3-1.6mm	Solder	Solder	1.6mm	Figure 3, Bulkhead mount, supplied complete with nut and washer
30-462-D3-1.8mm	Solder	Solder	1.8mm	Figure 3, Bulkhead mount, supplied complete with nut and washer

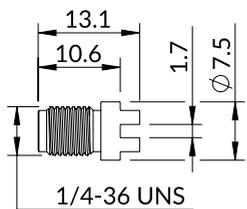


Figure 1

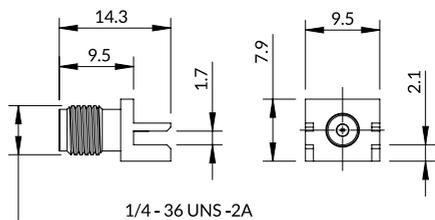


Figure 2

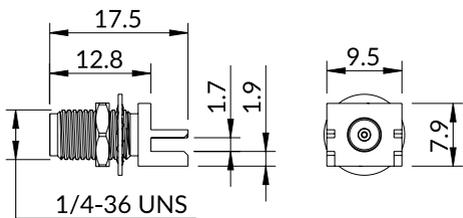


Figure 3

## End launch bulkhead jack.

For edge mount fitting to standard 1.6mm thick PCBs, and for bulkhead fitting with an IP68 seal that provides protection when unmated. These connectors provide low profile mounting to solder pads on the board edge.

Centre contact and body are gold plated and the bulkhead fixing version includes a fixing nut and lock washer.



IP68

Part Number	Centre Contact	Outer Contact	PCB nominal thickness	Features
30-462-1-D3-1.6	Solder	Solder	1.6mm	Figure 1 - IP68 sealed with 13mm flange
30-462-2-D3-1.6	Solder	Solder	1.6mm	Figure 2 - IP68 sealed with 10mm flange

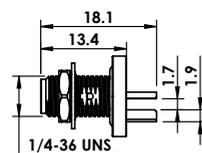


Figure 1

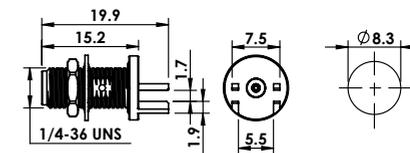
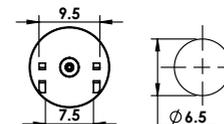


Figure 2

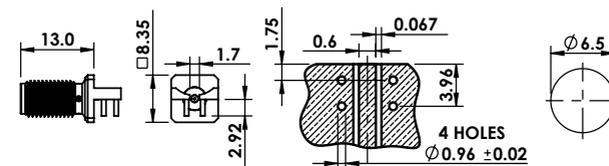
## End launch bulkhead jack for through hole mounting.

Designed to be mounted on the board edge, this connector has through hole solder pegs for additional mounting strength. The centre contact is in line with the top edge of the board and is designed for surface mount soldering.

Centre contact and body are gold plated and can be supplied with a fixing nut and lock washer.



Part Number	Centre Contact	Outer Contact	Features
30-410-D3	Solder	Solder	
30-410-1-D3	Solder	Solder	Includes fixing nut and lock washer



## Straight flange mount jack.

Flange mount SMA jack for either 2 or 4 hole fixing. The 4 hole variant has a flat tab solder contact whereas the 2 hole versions have a solder bucket.

Standard plating is gold for the contact and body, however the 2 hole flange version is also available with a nickel plated body.

Figure 1



Figure 2 & 3



Part Number	Centre Contact	Outer Contact	Features
30-372-D3	Solder	Panel mounted	4 hole flange - Gold plated - Figure 1
30-368-D3	Solder	Panel mounted	2 hole flange - Gold plated body - Figure 2
30-368-B3	Solder	Panel mounted	2 hole flange - Nickel plated body - Figure 2
30-369-D3	Solder	Panel mounted	2 hole flange - Extended dielectric Gold plated body - Figure 3

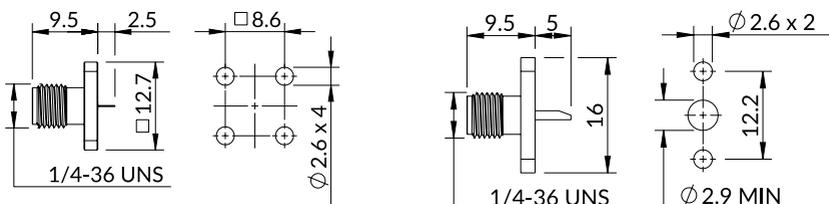


Figure 1

Figure 2

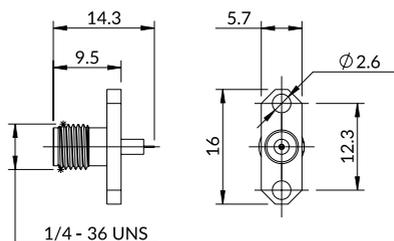


Figure 3

## Shorting cap & dust cap to fit SMA jack.

These sealed caps provides IP67 protection when mated with an SMA jack and include a chain and eyelet for securing to a nearby fixing point.

Part Number	Description	Chain Length	Eyelet Hole Ø
30-890-A3	Dust Cap	50mm	4mm
30-890-1-A3	Shorting Cap / Dust Cap	50mm	4mm



## SMA Plug to Jack 10dB 50W Attenuator, DC to 2.5GHz

SMA in line Plug to Jack Attenuator 10dB, 50W, DC to 2.5GHz the SMA connectors are hermetically sealed and have gold plated body and centre contact. The heatsink is machined aluminium with black anodised finish.



Part Number	Description
30-870-1	10dB, 50W Attenuator

## Adaptors.

Adaptors in a range of configurations for connection within the SMA series.  
For connecting SMA to other coaxial connector types, see our range of Inter Series Adaptors.

All adaptors have gold plated centre contacts and bodies.

Figure 1



Figure 2

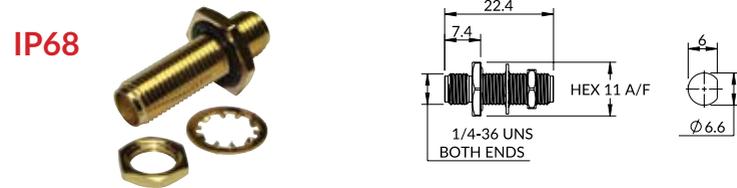


Figure 3

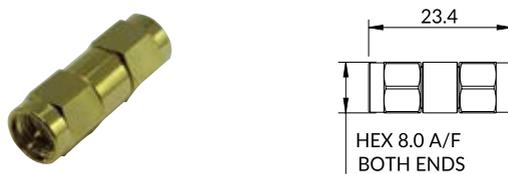


Figure 4

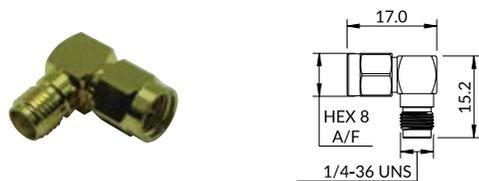
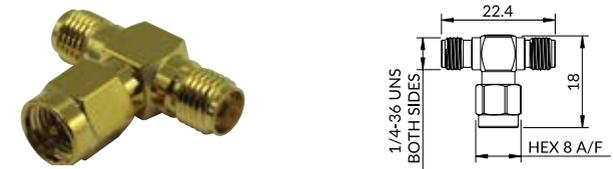


Figure 5



Figure 6



Part Number		Interface Arrangement			Figure	Features
		Left	Centre	Right		
30-500-D3	SMA Straight Adaptor	Jack		Jack	Fig. 1	
30-501-D10	SMA Bulkhead Adaptor	Jack		Jack	Fig. 2	IP68 sealed, mated and unmated
30-501-D3	SMA Bulkhead Adaptor	Jack		Jack	Fig. 2	
30-514-D3	SMA Straight Adaptor	Plug		Plug	Fig. 3	
30-520-D3	SMA Right Angle Adaptor,	Plug		Jack	Fig. 4	
30-522-D3	SMA 'T' Adaptor	Jack	Jack	Jack	Fig. 5	
30-523-D3	SMA 'T' Adaptor	Jack	Plug	Jack	Fig. 6	

## RP straight crimp plug.

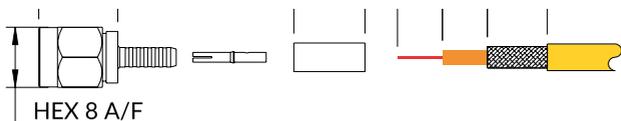
Reverse polarity version of standard crimp cable plug. This connector is available for a range of standard coaxial cables.

Reverse polarity connectors are ideal for use where it is necessary to differentiate between different lines and avoid incorrect connections.

Centre contact and body are gold plated except where otherwise stated.



Part Number	Typical Cable Types (for more visit website)	Cable Group	Centre Contact mm	Outer Contact mm	Features
31-005-A3-AD	See appendix for details on page 119	AD	1.07 Sq	3.25 Hex	Nickel plated body
31-005-B3-AH	See appendix for details on page 120	AH	1.73 Hex	5.41 Hex	Nickel plated body
31-005-D3-AD	See appendix for details on page 119	AD	1.07 Sq	3.25 Hex	
31-005-D3-AH	See appendix for details on page 120	AH	1.73 Hex	5.41 Hex	
31-005-D3-AK	See appendix for details on page 120	AK	1.73 Hex	6.5 Hex	



Assembly Procedure - AP001, see [www.coax-connectors.com/ap](http://www.coax-connectors.com/ap) for details



### Special Note.

If you want IP68 protection on any item not shown - please ask

## RP straight crimp jack.

Reverse polarity cable mounted jacks are available either for free cable or bulkhead mounting.

Reverse polarity connectors are ideal for use where it is necessary to differentiate between different lines and avoid incorrect connections.

Centre contact and body are gold plated except where otherwise stated.



Figure 1

Figure 2

Part Number	Typical Cable Types (for more visit website)	Cable Group	Centre Contact mm	Outer Contact mm	Features
31-054-A3-AD	See appendix for details on page 119	AD	1.07 Sq	3.25 Hex	Figure 1, Nickel plated body
31-054-A3-AH	See appendix for details on page 120	AH	1.73 Hex	5.41 Hex	Figure 1, Nickel plated body
31-054-D3-AD	See appendix for details on page 119	AD	1.07 Sq	3.25 Hex	Figure 1
31-054-D3-AH	See appendix for details on page 120	AH	1.73 Hex	5.41 Hex	Figure 1, Rear mount
31-254-1-D3-AH	See appendix for details on page 119	AH	1.73 Hex	5.41 Hex	Figure 2 Rear mount
31-254-D3-AD	See appendix for details on page 120	AD	1.07 Sq	3.25 Hex	Figure 2

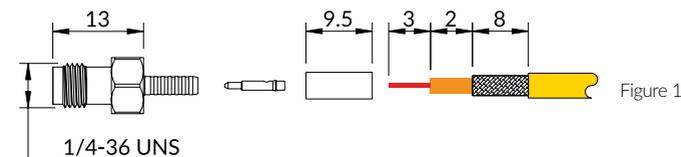


Figure 1

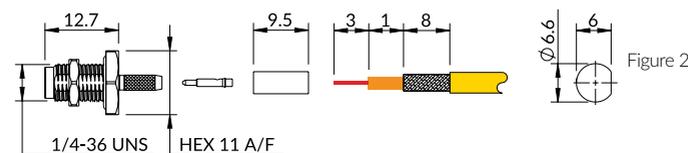


Figure 2

Assembly Procedure - AP001, see [www.coax-connectors.com/ap](http://www.coax-connectors.com/ap) for details



1.0/2.3 - 75 ohm	Page
Straight Push-Pull plug	100
Straight Screw Lock plug	101
Right angle Push-Pull plug	102
Straight crimp jack	102
Straight crimp bulkhead jack	103
Right angle bulkhead jack	104
Straight PCB jack	105
Right angle PCB jack	105
End launch PCB jack	106
Adaptor	106

## DIN 1.0/2.3 connectors.

1.0/2.3 connectors are available in either 50 or True 75 ohm designs.

The 50 ohm variants are widely used throughout Europe being based on the DIN standard 60169-10.

Due to their compact size and the easy to use Push-Pull coupling, the 75 ohm variants have been adopted as standard for use in Broadcast and Telecom industries as a space saving alternative to BNC and other similar series.

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 when space is restricted. Bulkhead mount jacks are fitted with a circular slotted locking nut.

### Key features:

- Small size for high density mounting
- Push-Pull coupling
- Gold plated inner and outer contacts
- Up to 4.5GHz on selected parts



### New connectors.

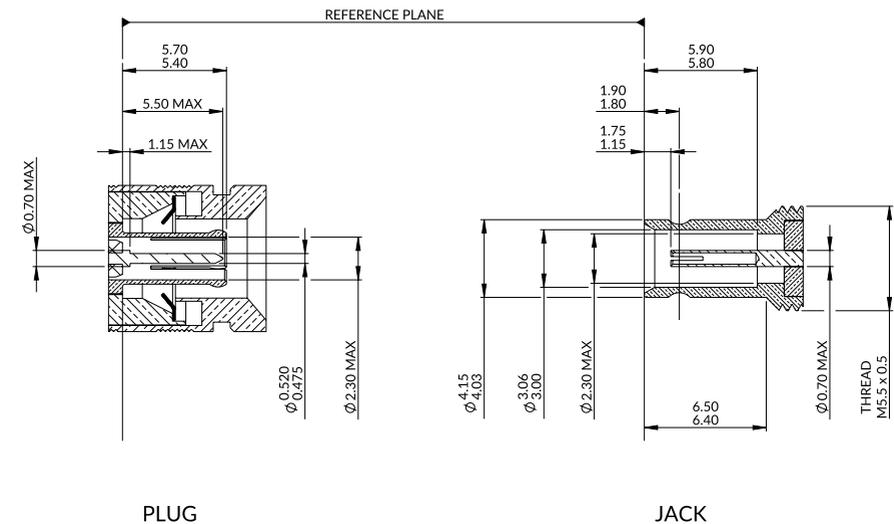
We are regularly designing new connectors to enhance our range, if you can not find what you need, please contact us.

## Specification.

Electrical Specification		Environmental Specification	
Impedance	75/50 ohm	Operation temperature	-55 to +155 Deg C
Frequency Range	Up to 4.5GHz	IP Rating (Mated)	IP40
Dielectric Withstand Voltage	500 Veff		
Insulation Resistance	1000 M-ohm		
Mechanical Specification		Materials	
Design Standard	IEC 60169-29	Centre Contact	Beryllium Copper
RoHS Compliant	Yes	Outer Contact	Phosphor Bronze
Mating Cycles	500	Insulator	PTFE
Contact Retention	10N min	Coupling Nut	Brass
Mating Force	<25N max	Centre Contact Plating	Gold
Un-coupling Force	3-25N	Outer Contact Plating	Gold

The above values are typical. Please check product data sheets for full details - see [www.coax-connectors.com](http://www.coax-connectors.com) or call +44(0)20 8538 9090

## DIN 1.0/2.3 Interface.





## 12GHz Straight Push-Pull crimp plug.

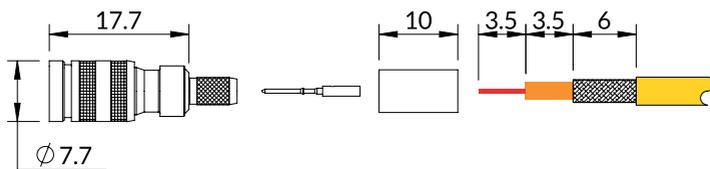
Push-Pull crimp plugs are connected by simply pushing onto the mating half, and to remove, pull back on the latching sleeve either by hand, or where space is restricted, by using removal tool (96-1023). This range of True 75 ohm plugs gives excellent low loss performance up to 12GHz with parts having been tested to 18GHz.

A range of cables for Broadcast and Telecom are covered. Crimped centre contacts and outer contacts are gold plated. Body parts are nickel plated and braid is terminated with a hexagon crimp.

1.0/2.3 crimp plugs are designed for assembly with the COAX crimp alignment tool (100-1023) which overcomes the problem of contacts being misaligned. See Accessories & Tooling section for details.

Part Number	Typical Cable Types (for more visit website)	Cable Group	Centre Contact mm	Outer Contact mm	Features
52-005-B6-AB	See appendix for details on page 119	AB	0.95 Sq	3.25 Hex	*
52-005-B6-BC	See appendix for details on page 121	BC	0.95 Sq	3.25 Hex	*
52-005-B6-BD	See appendix for details on page 122	BD	0.95 Sq	5.18 Hex	*
52-005-B6-BF	See appendix for details on page 122	BF	0.95 Sq	5.18 Hex	*
52-005-B6-BG	See appendix for details on page 122	BG	0.95 Sq	3.25 Hex	*
52-005-B6-BH	See appendix for details on page 122	BH	0.95 Sq	4.52 Hex	*
52-005-B6-EF	See appendix for details on page 124	EF	0.95 Sq	5.41 Hex	
52-005-B6-EF1	See appendix for details on page 124	EF	1.07 Sq	4.52 Hex	US Crimp sizes.
52-005-B6-EH	See appendix for details on page 124	EH	1.07 Sq	4.52 Hex	
52-005-B6-FA	See appendix for details on page 124	FA	0.95 Sq	5.41 Hex	*
52-005-B6-FB	See appendix for details on page 125	FB	0.95 Sq	6.48 Hex	*
52-005-B6-FB1	See appendix for details on page 125	FB	1.07 Sq	6.48 Hex	US Crimp sizes.
52-005-B6-FC	See appendix for details on page 125	FC	1.72 Hex	8.23 Hex	*
52-005-B6-FC1	See appendix for details on page 125	FC	1.07 Sq	7.06 Hex	US Crimp sizes.
52-005-B6-FE	See appendix for details on page 127	FE	0.95 Sq	6.48 Hex	*

\* These items are also available in bulk packs of 100 pieces.



Assembly Procedure - AP026, see [www.coax-connectors.com/ap](http://www.coax-connectors.com/ap) for details

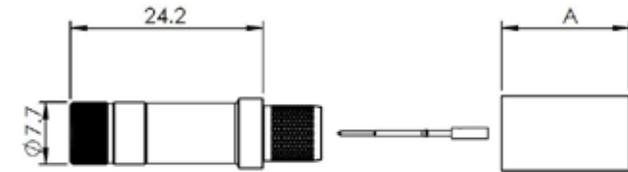


## Straight Screw Lock crimp plug.

Screw Lock crimp plugs are an alternative to Push-Pull and avoid signal loss where vibration is present. The True 75 ohm options give excellent low loss performance up to 4.5GHz.

Crimped centre contacts and outer contacts are gold plated. Body parts are nickel plated and braid is terminated with a hexagon crimp. 1.0/2.3 crimp plugs are designed for assembly with the COAX crimp alignment tool (100-1023) which overcomes the problem of contacts being misaligned. See Accessories & Tooling section for details.

Part Number	Typical Cable Types (for more visit website)	Cable Group	Dimension A mm	Centre Contact mm	Outer Contact mm
52-005A-B66-AB	See appendix for details on page 119	AB	10	0.95 Sq	3.25 Hex
52-005A-B66-FA	See appendix for details on page 124	FA	13	0.95 Sq	5.41 Hex
52-005A-B66-FB	See appendix for details on page 125	FB	13	0.95 Sq	6.48 Hex
52-005A-B66-EF	See appendix for details on page 124	EF	13	0.95 Sq	5.41 Hex
52-005A-B66-FJ	See appendix for details on page 127	FJ	16	0.95 Sq	8.23 Hex



Assembly Procedure - AP001, see [www.coax-connectors.com/ap](http://www.coax-connectors.com/ap) for details

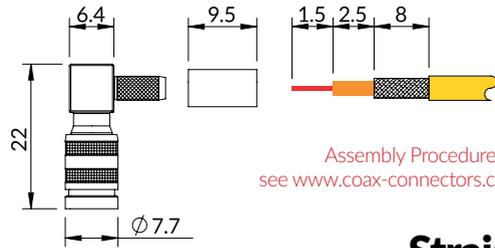
## Right angle Push-Pull crimp plug.

All right angle cable plugs have gold plated inner and outer contacts. The inner centre conductor is soldered through the hole in the rear body, and the outer conductor is crimped.

Plugs can be connected and disconnected by hand, or where space is restricted, a removal tool (96-1023) is available, see Accessories & Tooling section for details.



Part Number	Typical Cable Types (for more visit website)	Cable Group	Centre Contact mm	Outer Contact mm	Features
52-104-B3-BD	See appendix for details on page 122	BD	Solder	4.52 Hex	3G. Tested to 4.5GHz
52-104-B6-FA	See appendix for details on page 124	FA	Solder	5.41Hex	3G. Tested to 4.5GHz
52-104-D3-AB	See appendix for details on page 119	AB	Solder	3.25 Hex	3G. Tested to 4.5GHz

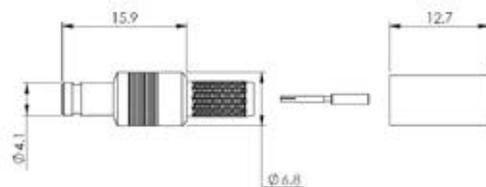


Assembly Procedure - AP017  
see [www.coax-connectors.com/ap](http://www.coax-connectors.com/ap) for details

## Straight crimp jack

These cable jacks have crimped inner and outer gold plated contact and body.

Part Number	Typical Cable Types (for more visit website)	Cable Group	Centre Contact Crimp mm	Outer Contact Crimp mm	Features
52-054-D6-BD	See appendix for details on page 122	BD	0.95 Square	5.18 Hex	1GHz
52-054-D6-FA	See appendix for details on page 124	FA	0.95 Square	5.41 Hex	4.5GHz
52-054-D6-FB	See appendix for details on page 125	FB	1.07 Square	6.48 Hex	4.5GHz

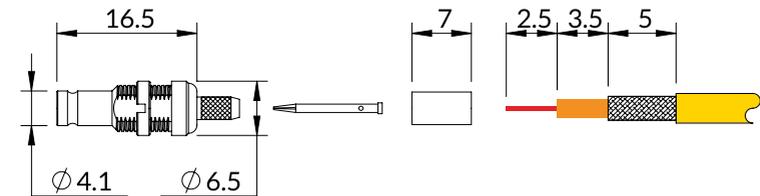


## Straight crimp cable jack including bulkhead mount.

These cable jacks have crimped inner and outer gold plated contact and body.

The range includes bulkhead mount versions which are supplied complete with a circular slotted lock nut. A tool for tightening this nut (96-1136) can be found in the Accessories & Tooling section of this catalogue.

Part Number	Typical Cable Types (for more visit website)	Cable Group	Centre Contact mm	Outer Contact mm	Features
52-054-D6-BD	See appendix for details on page 122	BD	0.95 Sq	4.52 Hex	
52-254-D6-AB	See appendix for details on page 119	AB	0.95 Sq	3.25 Hex	Bulkhead mount
52-254-D6-BC	See appendix for details on page 121	BC	1.73 Hex	5.41	Bulkhead mount



Assembly Procedure - AP026, see [www.coax-connectors.com/ap](http://www.coax-connectors.com/ap) for details

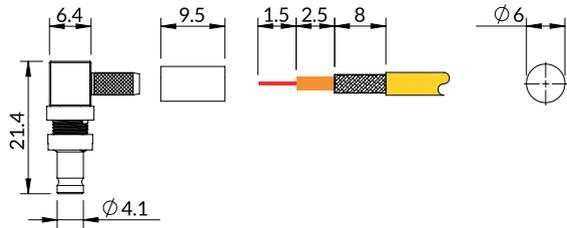


## Right angle bulkhead mount crimp jack.

The body and centre contact of these right angle jacks are gold plated. The inner contact is soldered through an aperture in the square body, the outer contact is crimped.

Bulkhead mount versions are supplied complete with a circular slotted lock nut. A tool for tightening this nut (96-1136) can be found in the Accessories & Tooling section of this catalogue.

Part Number	Typical Cable Types (for more visit website)	Cable Group	Centre Contact	Outer Contact mm	Features
52-271-D3-AB	See appendix for details on page 119	AB	Solder	3.25 Hex	
52-271-D3-BD	See appendix for details on page 122	BD	Solder	4.52 Hex	



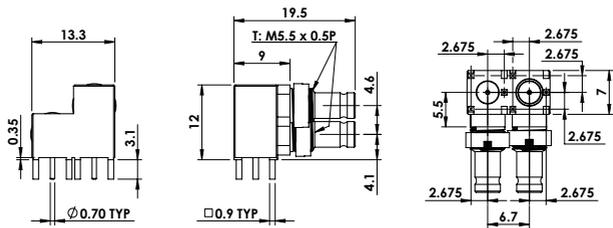
Assembly Procedure - AP017, see [www.coax-connectors.com/ap](http://www.coax-connectors.com/ap) for details

## Twin right angle bulkhead mount PCB jack.

This two port right angle PCB mount jack is available with either gold or nickel plated outer contacts. This connector is fixed to the PCB with through hole solder pegs and is supplied with circular fixing nuts for attachment to a bulkhead. The centre contact is gold plated.



Part Number	Features
92-52-468-1	Nickel plated outer contacts
92-52-468-2	Gold plated outer contacts



## Straight PCB jack.

Straight PCB jacks shown here have gold plated inner and outer contacts and are available as standard or for bulkhead mounting.

Bulkhead mount versions are supplied complete with a circular slotted locking nut. A tool for tightening this nut (96-1136) can be found in the Accessories & Tooling section of this catalogue.

Part Number	Centre Contact	Outer Contact mm	Features
52-450-D36	Solder	Solder	Figure 1
52-476-D36	Solder	Solder	Figure 1 with only 3 legs
52-054-D36	Solder	Solder	Figure 2 Bulkhead mount
52-454-D36	Solder	Solder	Figure 2 Bulkhead mount

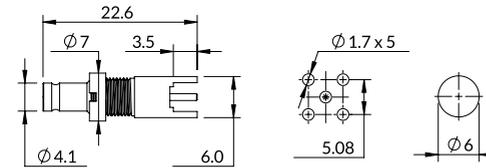


Figure 2

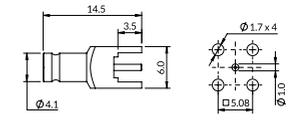


Figure 1



Figure 1

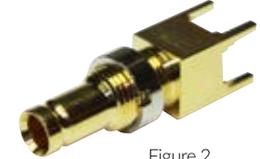


Figure 2

## Right angle PCB bulkhead jack.

This bulkhead PCB jack has gold plated inner and outer contacts and is supplied complete with a circular slotted locking nut.

A tool for tightening this nut (96-1136) can be found in the Accessories & Tooling section of this catalogue.



Part Number	Centre Contact	Outer Contact mm	Features	Features
52-468-D36	Solder	Solder	Bulkhead mount	Figure 1
52-468-1-D36	Solder	Solder	Bulkhead mount	Figure 2

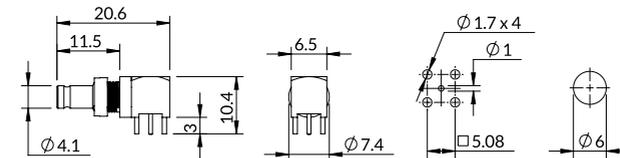


Figure 1

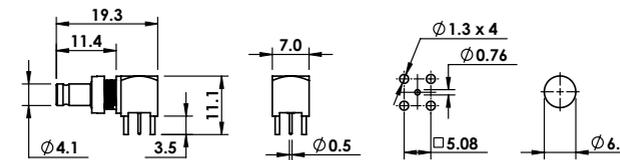


Figure 2

## End launch PCB bulkhead jack.

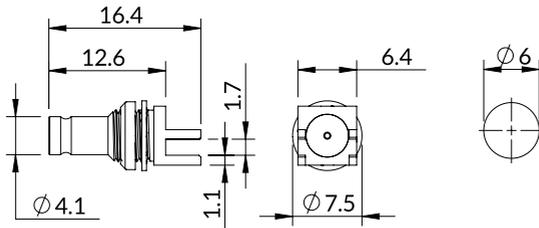


PCB edge mounted jack for bulkhead fitting, supplied complete with fixing nut and lock washer. A tool for tightening this nut (96-1136) can be found in the Accessories & Tooling section of this catalogue.

These connectors are ideal for use where board space is restricted or low profile mounting is required.

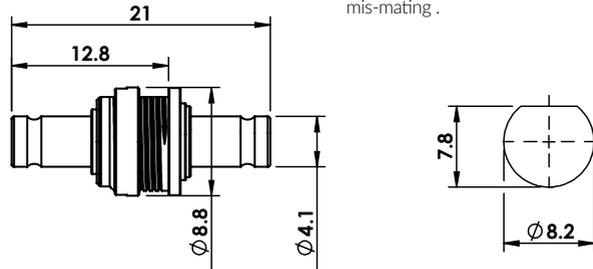
Centre contact and body are gold plated.

Part Number	Centre Contact	Outer Contact	Features
52-463-D36-1.6	Solder	Solder	For 1.6mm board thickness



## 12 GHz Isolated Metal Thread Bulkhead Jack to Jack Adaptor

75 ohm Bulkhead Jack to Jack Adaptor with a metal tread that is insulated from the main connector body. This true 75 ohm Adaptor is designed for Full HD 1080p applications and general use up to 12GHz. With gold plated Closed Entry centre contact to prevent mis-mating.



Part Number	Features
52-503- D66	Insulated Bulkhead mount, supplied with lock nut

# Bespoke cable assemblies

See page 3





## microMUSA video patchbay

The microMUSA video patchbay system delivers 4K performance exceeding SMPTE ST2082-1, and is suitable for composite and component video, 270 Mb/s SDI, uncompressed 1080i or 1080p HD-SDI video and 4K UHD (2160P60) video up to 12GHz.

The patchbay part of the system is 1U size and there are two variants. The rear of the 2x32 version is populated with 64 12G BNC connectors, and uniquely the 2x48 way version is populated with amazing 96 high density True 75ohm Micro BNC connectors.

Part Number	Panel size	Rear interface	Colour	Specification
99-609-BK	1U 2x32	BNC	Black	3G, 6G and 12G
99-610-BK	1U 2x48	Micro BNC	Black	3G, 6G and 12G

## microMUSA U-link

U-link bodies are made of cast metal and include finger grips for ease of insertion or extraction. The detent feature on the microMUSA gives tactile feedback to ensure 100% mating. The machined and formed U-link male contact provides a seamless repeatable signal path.

Different colour variants are available to assist with identification within a patchbay panel.



Part Number	Colour	Specification
64-564-D126-BK	Black	3G, 6G and 12G
64-564-D126-BR	Brown	3G, 6G and 12G
64-564-D126-RE	Red	3G, 6G and 12G
64-564-D126-OR	Orange	3G, 6G and 12G
64-564-D126-YE	Yellow	3G, 6G and 12G
64-564-D126-GN	Green	3G, 6G and 12G
64-564-D126-BL	Blue	3G, 6G and 12G
64-564-D126-VI	Violet	3G, 6G and 12G
64-564-D126-GY	Grey	3G, 6G and 12G
64-564-D126-WH	White	3G, 6G and 12G

## microMUSA patchcords

Patchcords for the microMUSA use 12G rated cable, and come in a range of different lengths to suit your requirements. Different boot colours are also available to help with identification.



Part Number	Length	Colour Boot	Specification
515-64XX-12	12"	See list below	3G, 6G and 12G
515-64XX-24	24"	See list below	3G, 6G and 12G
515-64XX-36	36"	See list below	3G, 6G and 12G
515-64XX-48	48"	See list below	3G, 6G and 12G
515-64XX-72	72"	See list below	3G, 6G and 12G

XX denotes boot colour

BK = Black      BR = Brown      RE = Red      OR = Orange      YE = Yellow  
 GN = Green      BL = Blue      VI = Violet      GY = Grey      WH = White



## Patch cables.

Patch cables in a range of standard lengths are available with BNC, TNC, SMA and N Type connectors fitted to both ends. These standard cables are fitted with a supporting cable boot.

Other connector combinations, marker sleeves and different cable length or types are available on request, please contact us to discuss the options.

Part Number	Length (cut cable length before assembly)	Cable Type	Connector end A	Connector end B	
90-10A10A-12D-C1-100	1 Metre	RG179	BNC Plug (10-005-B36-AB)	BNC Plug (10-005-B36-AB)	
90-10A10A-12D-C1-200	2 Metres				
90-10A10A-12D-C1-500	5 Metres				
90-10A10A-12D-C1-1000	10 Metres				
90-10A10A-04A-C1-100	1 Metre	RG58	BNC Plug (10-005-A3-AH)	BNC Plug (10-005-A3-AH)	
90-10A10A-04A-C1-200	2 Metres				
90-10A10A-04A-C1-500	5 Metres				
90-10A10A-04A-C1-1000	10 Metres				
90-13A13A-04A-C1-100	1 Metre	RG58	TNC Plug (13-005-A3-AH)	TNC Plug (13-005-A3-AH)	
90-13A13A-04A-C1-200	2 Metres				
90-13A13A-04A-C1-500	5 Metres				
90-13A13A-04A-C1-1000	10 Metres				
90-25A25A-04A-C1-100	1 Metre	RG58	N Type Plug (25-005-B3-AH)	N Type Plug (25-005-B3-AH)	
90-25A25A-04A-C1-200	2 Metres				
90-25A25A-04A-C1-500	5 Metres				
90-25A25A-04A-C1-1000	10 Metres				
90-30A30A-04A-S1-100	1 Metre	RG58	SMA Plug (30-005-B3-AH)	SMA Plug (30-005-B3-AH)	
90-30A30A-04A-S1-200	2 Metres				
90-30A30A-04A-S1-500	5 Metres				
90-30A30A-04A-S1-1000	10 Metres				

All the above patch cables are manufactured using standard black jacket RG179 or RG58. Length indicated is cut cable length before connector is fitted. Marker sleeves and cable boots can be fitted if required, please contact us for details.

## Adaptor cables.

To avoid complete cable replacement when new routers and ancillary equipment is being installed, use our adaptor cables to change between connector types.

Standard adaptor cables, using high performance cable from group FA, 0.6/2.8 with a green jacket are available in a several different lengths to convert from standard BNC to Micro BNC or DIN 1.0/2.3.

Other combinations and different cable types are available on request, please contact us to discuss the options.



Part Number	Length (cut cable length before assembly)	Connector end A	Connector end B	
90-67A10D-62-A1-50	0.5 Metre	Micro BNC Plug (67-005-B66-FA)	BNC Jack (10-054-B36-FA)	
90-67A10D-62-A1-100	1 Metre			
90-67A10D-A62-1-30	12 inch			
90-67A10D-62-A1-91	36 inch			
90-67A10A-62-A1-50	0.5 Metre	Micro BNC Plug (67-005-B66-FA)	BNC Plug (10-005-B36-FA)	
90-67A10A-62-A1-100	1 Metre			
90-67A10A-62-A1-30	12 inch			
90-67A10A-62-A1-91	36 inch			
90-52A10D-62-A1-50	0.5 Metre	DIN 1.0/2.3 Plug (52-005-B6-FA)	BNC Jack (10-054-B36-FA)	
90-52A10D-62-A1-100	1 Metre			
90-52A10D-62-A1-30	12 inch			
90-52A10D-62-A1-91	36 inch			
90-52A10A-62-A1-50	0.5 Metre	DIN 1.0/2.3 Plug (52-005-B6-FA)	BNC Plug (10-005-B36-FA)	
90-52A10A-62-A1-100	1 Metre			
90-52A10A-62-A1-30	12 inch			
90-52A10A-62-A1-91	36 inch			

All the above adaptor cables are manufactured using cable from group FA. Length indicated is cut cable length before connector is fitted. Marker sleeves and cable boots can be fitted if required, please contact us for details.

Inner Conductor	Solid bare copper wire, diameter 0.6 mm
Insulation	Foam-PE, diameter 2.8 mm
Outer Conductor	Al-PET-Al-foil under tinned copper braid
Jacket	Diameter 4.5 mm, Green
Minimum Bending Radius	25mm

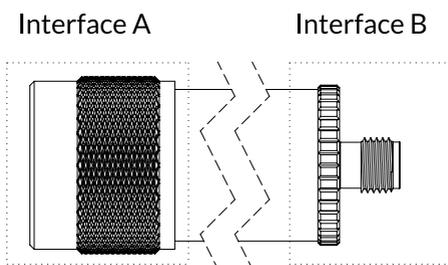


# Inter-Series Adaptors.

A wide selection of adaptors are available to connect between the different connector series.

Select Interface A and B from the table to find the appropriate part number.

Adaptors for interconnection within the same connector series (e.g. BNC to BNC) are shown in the pages for that type.



Example only - please select the required configuration from the table.

Part Number	Interface A	Interface B	Impedance	Notes
74-1015-500	BNC Jack	F Type Jack	75 ohm	
74-1015-534	BNC Jack	F Type Plug	75 ohm	
74-1067-534	BNC Jack	Micro BNC Plug	75 ohm	
74-1067-500	BNC Jack	Micro BNC Jack	75 ohm	
74-1025-534	BNC Jack	N Type Plug	50 ohm	
74-1017-534	BNC Jack	Phono Plug	50 ohm	
74-1030-534-B3	BNC Jack	SMA Plug	50 ohm	
74-1013-534	BNC Jack	TNC Plug	50 ohm	
74-1020-534	BNC Jack	UHF Plug	50 ohm	
74-1029-535	BNC Jack	DIN 41626 Plug	75 ohm	Bulkhead mount
74-1052-500	BNC Jack	DIN 1.0/2.3 Jack	75 ohm	6GHz
74-1052-534-B36	BNC Jack	DIN 1.0/2.3 Plug	75 ohm	6GHz

Part Number	Interface A	Interface B	Impedance	Notes
74-1016-511	BNC Plug	Euro Jack	50 ohm	
74-1016-514	BNC Plug	Euro Plug	50 ohm	
74-1015-511	BNC Plug	F Type Jack	75 ohm	
74-1022-514	BNC Plug	FME Plug	50 ohm	
74-1067-514	BNC Plug	Micro BNC Plug	75 ohm	3GHz
74-1067-511	BNC Plug	Micro BNC Jack	75 ohm	4.5GHz
74-1025-511	BNC Plug	N Type Jack	50 ohm	
74-1025-511-75R	BNC Plug	N Type Jack	75 ohm	⚠ Do not mate with 50ohm
74-1025-514	BNC Plug	N Type Plug	50 ohm	
74-1025-514-75R	BNC Plug	N Type Plug	75 ohm	⚠
74-1017-511	BNC Plug	Phono Jack	50 ohm	
74-1017-514	BNC Plug	Phono Plug	50 ohm	
74-1030-511	BNC Plug	SMA Jack	50 ohm	
74-1030-514-B3	BNC Plug	SMA Plug	50 ohm	
74-1020-511	BNC Plug	UHF Jack	50 ohm	
74-1052-511-B36	BNC Plug	DIN 1.0/2.3 Jack	75 ohm	6GHz
74-1525-534	F Type Jack	N Type Plug	75 ohm	⚠
74-1520-534	F Type Jack	UHF Plug	75 ohm	⚠ Bulkhead Mount
74-1525-511	F Type Plug	N Type Jack	75 ohm	⚠ Do not mate with 50ohm
74-2225-534	FME Plug	N Type Jack	50 ohm	
74-2225-514	FME Plug	N Type Plug	50 ohm	
74-2213-514	FME Plug	TNC Plug	50 ohm	
74-2022-514	FME Plug	UHF Plug	50 ohm	
74-2122-514	FME Plug	UHF Plug	50 ohm	
74-2555-500-E3	N Type Jack	7/16 Jack	50 ohm	
74-2555-534	N Type Jack	7/16 Plug	50 ohm	
74-2530-500	N Type Jack	SMA Jack	50 ohm	
74-2530-501-B3	N Type Jack	SMA Jack	50 ohm	Bulkhead mount
74-2584-534-G3	N Type Jack	LC Plug	50 ohm	Silver plated contacts
74-2530-534	N Type Jack	SMA Plug	50 ohm	
74-2555-511-P3	N Type Plug	7/16 Jack	50 ohm	
74-2530-511	N Type Plug	SMA Jack	50 ohm	
74-2530-514	N Type Plug	SMA Plug	50 ohm	
74-1330-500	TNC Jack	SMA Jack	50 ohm	
74-1330-534	TNC Jack	SMA Plug	50 ohm	
74-1325-511	TNC Plug	N Type Jack	50 ohm	
74-1325-511-H3	TNC Plug	N Type Jack	50 ohm	18GHz
74-1330-511	TNC Plug	SMA Jack	50 ohm	
74-1330-511-H3	TNC Plug	SMA Jack	50 ohm	18GHz
43-76A	Type 43 Plug	BNC Plug	75 ohm	
74-2030-534	UHF Jack	SMA Plug	50 ohm	
74-2025-514	UHF Plug	N Type Jack	50 ohm	
74-3132-541	SMA RP Jack	SMB Jack	50 ohm	IP68 Bulkhead mount
74-5130-501	MMBX Jack	SMA Jack	50 ohm	Bulkhead mount

⚠ Damage may occur if 50 and 75 ohm connectors are mixed.

## Cable joiner.

These coaxial cable joiners provide a low loss method of making a permanent connection between 2 cables of the same type.

Cable joiners are ideal for repair and maintenance of damaged cables, or to aid re-routing when it is necessary to cut the cable.

These joiners use crimping to terminate the centre conductors and a clamp mechanism for the outer which also provides an IP68 seal.



Part Number	Typical Cable Types (for more visit website)	Cable Group	Centre Contact mm	Outer Contact mm	Features
76-570-Q3-AH	See appendix for details on page 120	AH	1.73 Hex	Clamp	Figure 1 50 ohm
76-570-Q6-AI	See appendix for details on page 120	AI	1.73 Hex	Clamp	Figure 2 75 ohm

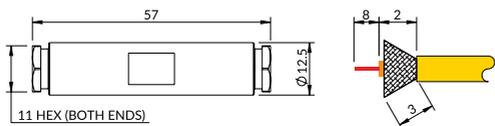


Figure 1

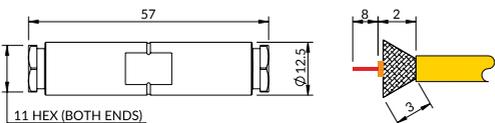


Figure 2

Assembly Procedure - AP035, see [www.coax-connectors.com/ap](http://www.coax-connectors.com/ap) for details

## Cable terminator.

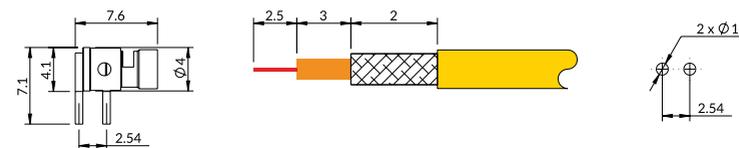
Right angled coaxial terminator, for fixing of coaxial cable directly on to a PCB.

Coaxial terminators are ideal where a permanent, low loss and reliable fitting to a PCB is required.

The cable is attached to the terminator by soldering the braid and centre conductor, which is then through hole soldered onto the PCB.



Part Number	Typical Cable Types (for more visit website)	Cable Group	Centre Contact mm	Outer Contact mm	Features
77-495-R3-AD	See appendix for details on page 119	AD	Solder	Solder	



Assembly Procedure - AP034, see [www.coax-connectors.com/ap](http://www.coax-connectors.com/ap) for details

## Crimp tools.

A wide range of hand held crimp tools for centre contacts and/or crimp sleeves for the crimp connectors supplied by COAX Connectors.



96-HTS-43	Type 43 Crimp Tool (0.95sq, 3.25, 4.52 & 5.18 mm A/F)
96-HTS-75A	Crimp Tool for True 75 ohm DIN1.0/2.3, Micro BNC & BNC (0.95sq, 1.07sq, 1.72, 5.41 & 8.23 mm A/F Hex)
96-HTS-76	Crimp Tool for True 75 ohm DIN1.0/2.3, Micro BNC & BNC (0.95sq, 1.72, 5.41 & 6.48 mm A/F Hex)
96-HTS-77	Ratchet Crimp Tool with US standard die sizes (1.07sq, 4.52, 6.48 & 7.06 mm A/F Hex)
96-106G	Crimp Tool 106G (2.54, 8.20 & 11.4 mm A/F)
96-106L	Crimp Tool 106L (2.54, 9.12 & 10.3 mm A/F)
96-106Q	Crimp Tool 106Q (8.23 & 11.94 mm A/F)
96-336A	Ratchet Crimp Tool 336A (1.73, 5.41 & 6.50 mm A/F)
96-336A4	Ratchet Crimp Tool 336A4 (1.73, 4.75, 5.41 & 6.48 mm A/F)
96-336C2	Ratchet Crimp Tool 336C2 (1.73, 6.65, 8.23 & 9.14 mm A/F)
96-336D	Ratchet Crimp Tool 336D (1.73, 5.41, 6.50 & 8.23 mm A/F)
96-336G	Ratchet Crimp Tool 336G (1.09sq, 1.73, 2.54, 3.48, 5.41 & 6.48 mm A/F)
96-336I	Ratchet Crimp Tool 336I (1.70, 2.36, 5.41, 6.46 & 8.00 mm A/F)
96-336J	Ratchet Crimp Tool 336J (1.07sq, 1.73, 1.98, 3.25, 3.88 & 4.52 mm A/F)
96-336K	Ratchet Crimp Tool 336K (2.54, 3.25 & 10.9 mm A/F)
96-336P1	Ratchet Crimp Tool 336P1 (1.73, 2.49, 5.41, 6.48 & 8.15 mm A/F)
96-336T1	Ratchet Crimp Tool 336T1 (0.71sq, 0.99sq, 1.19sq, 2.54, 3.25 & 3.84 mm A/F)
96-336Y	Ratchet Crimp Tool 336Y (1.12, 1.45, 1.73, 5.41 & 5.59 mm A/F)
96-568R	Ratchet Crimp Tool - RJ45

Crimps shown above are Hexagon unless otherwise stated.

## Tool kit. 96-330K

Tool Kit includes a Ratchet Crimp tool with a selection of interchangeable crimp dies, a Rotary Cable Stripper and a Cable Cutter.

Supplied in a rugged tool box, the kit includes everything you need to terminate the majority of coaxial cable connectors.

The 5 interchangeable die sets cover 15 different hexagon and square sizes, from 1.07mm (0.042") square to 10.9mm (0.429") hex.



## Cable strippers.

96-312B	Rotary Cable Stripper, RG58, 59, URM70
96-312S	Rotary Cable Stripper for RG213 Cable
96-312X	Rotary Cable Stripper, Mini 59
96-322	Rotary Cable Stripper, RG58, 59, URM70
96-332D	Rotary Cable Stripper, RG179



## Extraction / insertion tools.

Tools designed for extracting and/or inserting connectors used in high density applications where there is insufficient room for finger access.

96-1023	1.0/2.3 Extractor Tool
96-1132	Micro BNC Plug Insertion & Extractor Tool
96-1137	Micro BNC Plug Insertion & Extractor Tool - for use with larger cables
96-1132-150	Micro BNC Plug Insertion & Extractor Tool - 150mm long version
96-310-832-Tool	HDC 43 T Bar Insertion & Extractor Tool
96-2208	BNC Insertion & Extractor Tool 8"

## Other tools & Parts

100-1023	1.0/2.3 Crimp contact alignment tool
96-1135	Nut runner for Micro BNC slotted bulkhead fixing nut
96-1136	Nut runner for 1.0/2.3 slotted bulkhead fixing nut
96-1140	Nut runner for BNC slotted bulkhead fixing nut
100-075	BNC circular slotted nut, for use where space is limited



## Cable boots.

Part Number	Cable Type	Colour
97-800-XX-05	RG58	Available in 10 colours: Black (BK), Brown (BN), Blue (BU), Green (GN), Grey (GY), Orange (OR), Red (RE), Violet (VI), White (WH) and Yellow (YE)
97-800-XX-06	RG59	
97-800-XX-03	RG174/179	Available in 5 colours: BK, BU, GN, RE, YE
Replace XX in part number with appropriate code as shown in colour column.		



Boots for other cables are available on request. Please contact COAX for details.

## Accessories.

Black protective PVC caps offer general protection when fitted to the interface of a connector.

Available in a wide range of sizes, these caps can be used to protect most coaxial connectors in this catalogue.



Part Number	Diameter in mm	Length in mm	Fits Connector
100-121	9.7	12	BNC & TNC Jacks
100-122	14.0	15	BNC & TNC Plug
100-123	20.5	15	N Type Plug & UHF Plug
100-124	8.2	10	SMA Plug
100-125	33.0	15	7/16 Plug
100-126	28.0	13	7/16 Jack
100-127	2.6	9	
100-128	2.9	10	SMB & SMC
100-129	8.5	20	F Type Jack & Mini BNC Plug
100-130	9.5	16	Type 43 (SMZ) Socket
100-131	11.0	20	F Type Plug
100-132	15.5	20	N Type Jack & UHF Jack
100-133	16.0	20	
100-134	18.0	30	
100-135	6.5	18	BMA Jack & 1.0/2.3 Plug Micro BNC Plug
100-136	6.0	18	SMA Jack, Micro BNC Jack, SMB Plug & Type 43 (SMZ) Plug
100-137	13.0	12	
100-138	14.0	12	

Not all connector series are covered by a single specification and dimensions may vary. Please check actual connector size before selecting the above items.

## Appendix - Cable Groups

The information contained in this appendix is compiled from a variety of sources and is not a complete list. Cable and connector compatibility should always be checked before starting production. COAX Connectors Ltd. accepts no responsibility for the accuracy of this data.

Cable Type	Impedance Ohms	Jacket O/D mm	Dielectric Material	Dielectric O/D	Centre Conductor Material	Centre Conductor O/D mm	Shielding Outer Conductor
<b>Cable Group AA</b>							
RG178	50	1.8	PTFE	0.84	SCCS	0.3	Copper Braid
RG196	50	1.83	PTFE	0.86	SCCS	0.3	Copper Braid
<b>Cable Group AB</b>							
Belden 179DT	75	2.54	PEF	1.42	BC	0.31	Foil and Braid
RG179 B/U	75	2.54	PTFE	1.6	SCCS	0.3	Copper Braid
RG179 Solid	75	2.54	Foam	1.6	SCSC	0.3	Copper Braid
RG179 Stranded	75	2.54	Foam	1.6	SCSC	0.3	Copper Braid
RG187	75	2.67	PTFE	1.52	SCCS	0.3	Copper Braid
<b>Cable Group AC</b>							
RD179	75	3.02	PTFE	1.6	SCCS	0.3	Double Copper Braid
<b>Cable Group AD</b>							
KX22	50	2.5	PTFE	1.52	SCCS	0.51	Copper Braid
KX3	50	2.54	PE	1.5	CCS	0.48	Copper Braid
RG174	50	2.79	PE	1.52	BCCS	0.48	Copper Braid
RG188	50	2.67	PTFE	1.52	SCCS	0.51	Copper Braid
RG316	50	2.49	PTFE	1.52	SCCS	0.51	Copper Braid
Times LMR@100	50	2.79	PE	1.52	BCCS	0.46	Foil and Braid
URM95	50	2.3	PE	1.5	SCCS	0.46	Copper Braid
WBC100	50	2.67	PE	1.52	CCS	0.46	Foil and Braid
<b>Cable Group AE</b>							
RD188	50	2.9	PTFE	1.52	SCCS	0.51	Double Copper Braid
RD316	50	2.9	PTFE	1.52	SCCS	0.51	Double Copper Braid
<b>Cable Group AF</b>							
Mini RG59 Black	75	4.15	PEF	2.9	CCS	0.64	Foil and Braid
<b>Cable Group AG</b>							
Mini RG59 White	75	3.6	PEF	1.9	CCS	0.41	Foil and Braid

Cable Type	Impedance Ohms	Jacket O/D mm	Dielectric Material	Dielectric O/D	Centre Conductor Material	Centre Conductor O/D mm	Shielding Outer Conductor
<b>Cable Group AH</b>							
Belden 9203	50	4.95	PE	PE	TC	0.9	Copper Braid
KX15	50	4.95	PE	PE	TC	0.91	Copper Braid
KX23	50	5.1	PTFE	PTFE	SC	1.02	Double Copper Braid
PSF 1/6	50	5	PE	PE	BC	0.96	Double Copper Braid
RG141	50	4.83	PTFE	PTFE	SCCS	0.94	Copper Braid
RG58	50	4.95	PE	PE	TC	0.91	Copper Braid
Times LMR@195	50	4.95	PEF	PEF	BC	0.94	Foil and Braid
URM43	50	5	PE	PE	BC	0.9	Copper Braid
URM76	50	5	PE	PE	TC	0.96	Copper Braid
WBC195	50	4.95	PE	PE	BC	0.94	Foil and Braid
<b>Cable Group AI</b>							
CanfordLV-61S	75	6.1	PE	3.6	BC	0.6	Braid
KX30	93	6.15	PE	3.71	BCCS	0.64	CopperBraid
KX52	75	-	-	-	-	-	-
KX6	75	6.1	PE	3.7	BC	0.6	CopperBraid
RG59	75	6.15	PE	3.71	BCCS	0.57	CopperBraid
RG59U	75	6.15	PE	3.71	BCCS	0.57	CopperBraid
RG62	93	6.15	PE	3.71	BCCS	0.64	CopperBraid
URM104	75	6	PE	-	-	0.64	CopperBraid
URM70	75	5.8	PE	3.25	TC	0.6	CopperBraid
<b>Cable Group AJ</b>							
RG59DB	75	6.15	PE	3.7	CCS	0.58	CopperBraid
<b>Cable Group AK</b>							
RG223	75	5.38	PE	2.95	SC	0.89	DoubleCopperBraid
<b>Cable Group AL</b>							
RD178	50	3.7	PTFE	0.87	SCSC	0.3	DoubleCopperBraid

The information contained in this appendix is compiled from a variety of sources and is not a complete list. Cable and connector compatibility should always be checked before starting production. COAX Connectors Ltd. accepts no responsibility for the accuracy of this data.

Cable Type	Impedance Ohms	Jacket O/D mm	Dielectric Material	Dielectric O/D	Centre Conductor Material	Centre Conductor O/D mm	Shielding Outer Conductor
<b>Cable Group AM</b>							
KX8	75	10.3	PE	7.25	BC	1.2	CopperBraid
RG11	75	10.29	PE	7.24	TC	1.2	CopperBraid
<b>Cable Group AN</b>							
KX4	50	10.3	PE	7.25	BC	2.25	CopperBraid
RG213	50	10.29	PE	7.24	BC	2.25	CopperBraid
URM67	50	10.3	PEF	7.25	BC	2.25	CopperBraid
<b>Cable Group AO</b>							
RG214	50	10.8	PE	7.24	SC	2.25	DoubleCopperBraid
<b>Cable Group AP</b>							
URM202	75	5.1	PEF	3.25	BC	0.75	CopperBraid
<b>Cable Group AR</b>							
RGC8-50J	50	10.24	Foam	7.37	BC	2.74	FoilandBraid
RGC8-CCA-50J	50	10.24	Foam	7.37	CCA	2.74	FoilandBraid
<b>Cable Group AS</b>							
RG7	95	9.4	PE	6.35	BC	0.91	CopperBraid
<b>Cable Group AT</b>							
RG11RBS	75	11.5	PE	7.24	TC	1.2	CopperBraid
<b>Cable Group AU</b>							
RG142	50	4.95	PTFE	2.95	CCS	0.94	DoubleCopperBraid
RG400	50	4.95	PTFE	2.95	SCCS	0.97	DoubleCopperBraid
<b>Cable Group AW</b>							
Aircell 5	50	5.0	PE	2.95	BC	1.08	Foil and Braid
<b>Cable Group BA</b>							
BT2001	75	4.4	PEF	2.4	BC	0.6	Copper Braid
<b>Cable Group BB</b>							
BT2002	75	5.1	PEF	2.4	BC	0.63	Double Copper Braid
<b>Cable Group BC</b>							
BT2003	75	6.65	PE	3.7	BC	0.61	Double Copper Braid
PSF 1/3	75	6.4	PE	3.7	BC	0.61	Double Copper Braid

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Cable Type	Impedance Ohms	Jacket O/D mm	Dielectric Material	Dielectric O/D	Centre Conductor Material	Centre Conductor O/D mm	Shielding Outer Conductor
<b>Cable Group BD</b>							
BT3002	75	3.55	PE	1.95	BC	0.31	Double Copper Braid
TZC75024	75	3.55	PE	1.95	BC	0.31	Double Copper Braid
TZC75025	75	4.55	PE	2.95	BC	0.32	Double Copper Braid
<b>Cable Group BE</b>							
BT5000	75	7.2	PEF	4.8	BC	0.96	Foil and Braid
RA5000	75	7.2	PEF	4.8	BC	0.96	Foil and Braid
<b>Cable Group BF</b>							
BT7000	75	4.55	PEF	2.8	BC	0.61	Foil and Braid
RA7000	75	4.55	PEF	2.8	BC	0.61	Foil and Braid
<b>Cable Group BG</b>							
RA8000	75	2.75	PEF	1.45	BC	0.31	Foil and Braid
<b>Cable Group BH</b>							
735A	75	3.28	PEF	1.96	SPC	0.41	Foil and Braid
Belden 735C1	75	3.4	PEF	1.96	SPC	0.43	Foil and Braid
Canford SDV-M	75	3.1	FHPE	1.9	BC	0.41	Foil and Braid
CT1320	75	3.28	PEF	1.96	SPC	0.41	Foil and Braid
Draka 0.41/1.9 AF	75	3.1	PEF	1.9	BC	0.41	Foil and Braid
<b>Cable Group BI</b>							
1.6mm Mini Coax	75	1.6	PEF	1.1	BC	0.26	Copper Braid
<b>Cable Group BJ</b>							
2.2mm Mini Coax	75	2.2	PEF	1.2	BC	0.26	Copper Braid
<b>Cable Group CA</b>							
CT100	75	6.5	PEF	4.45	BC	1	Foil and Braid
RG6	75	6.99	PEF	4.57	BC	1.02	Foil and Braid
WSC100	75	6.65	PEF	4.7	CCS	1.02	Foil and Braid
<b>Cable Group CB</b>							
CT100RBS	75	8.5	PEF	4.6	BC	1	Foil and Braid
<b>Cable Group CC</b>							
CT125	75	7.8	PEF	5.5	BC	1.25	Foil and Braid
<b>Cable Group CD</b>							
CT125RBS	75	9.6	PEF	5.6	BC	1.25	Foil and Braid

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Cable Type	Impedance Ohms	Jacket O/D mm	Dielectric Material	Dielectric O/D	Centre Conductor Material	Centre Conductor O/D mm	Shielding Outer Conductor
<b>Cable Group CE</b>							
CT167	75	10.1	PEF	7.28	BC	1.67	Foil and Braid
<b>Cable Group CF</b>							
CT167RBS	75	11.5	PEF	7.28	BC	1.67	Foil and Braid
<b>Cable Group CY</b>							
CYG014	75	6	PEF	2.3	TC	0.5	Copper Braid
<b>Cable Group DA</b>							
Times LMR®200	50	4.95	PEF	2.95	BC	1.12	Foil and Braid
<b>Cable Group DB</b>							
Belden 155 A00	50	5.4	PEF	3.9	BC	1.41	Foil and Braid
Belden 155 PE	50	10.3	PEF	3.9	BC	1.4	Foil and Braid
Times LMR®240	50	6.1	PEF	3.81	BC	1.42	Foil and Braid
<b>Cable Group DC</b>							
Times LMR®300	50	7.62	PEF	4.83	BC	1.78	Foil and Braid
<b>Cable Group DE</b>							
Belden 7810A	50	10.24	PE	7.24	BCCAI	2.74	Foil and Braid
Belden 9913	50	10.29	PE	7.26	BC	2.74	Copper Braid
Belden H1000PE	50	10.3	PEF	7.15	BC	2.62	Foil and Braid
Belden H2000 Flex	50	10.3	PEF	7.15	BC	2.62	Foil and Braid
RG8	50	10.24	PE	7.24	BC	2.62	Foil and Braid
Times LMR®400	50	10.29	PEF	7.24	BCCAI	2.74	Foil and Braid
Times LMR®400 Ultraflex	50	10.29	PEF	7.24	BC	2.74	Foil and Braid
TZC50032	50	10.3	PE	7.24	BC	2.74	Copper Braid
<b>Cable Group DG</b>							
Times LMR®500	50	12.7	PEF	9.4	BCCAI	3.61	Foil and Braid
<b>Cable Group DH</b>							
Times LMR®600	50	14.99	PEF	11.56	BCCAI	4.47	Foil and Braid
<b>Cable Group DJ</b>							
Times LMR®1200	50	30.48	PEF	23.4	BC Tube	8.86	Foil and Braid
<b>Cable Group DL</b>							
Times LMR®200-75	75	4.95	PEF	2.95	BC	0.64	Foil and Braid

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Cable Type	Impedance Ohms	Jacket O/D mm	Dielectric Material	Dielectric O/D	Centre Conductor Material	Centre Conductor O/D mm	Shielding Outer Conductor
<b>Cable Group DN</b>							
Times LMR®400-75	75	10.29	PEF	7.24	BC	1.65	Foil and Braid
<b>Cable Group DO</b>							
Times LMR®400 Rigid DrainBraid	50	10.3	PEF	7.24	BCCAI	2.74	
<b>Cable Group DP</b>							
AHF 4/17	75	22	PEF	17.3	BC	4.2	Copper Foil
<b>Cable Group DS</b>							
SC1 & SC2 Sensor Cable	50	10.24	PEF	7.24	BCCAI	2.74	Foil and Braid
<b>Cable Group EF</b>							
Belden 1855A	75	4.04	PEF	2.59	BC	0.58	Foil and Braid
Belden 1865A	75	3.81	PEF	2.39	BC	0.54	Foil and Braid
Belden 4855P	75	4.04	FHPE	2.59	BC	0.58	Foil and Braid
Belden 4855R	75	4.04	FHPE	2.59	BC	0.58	Foil and Braid
Canare L-2.5CFB	75	4.0	PEF	2.4	BC	0.50	Foil and Braid
Canare L-2.5CHD	75	4.2	PEF	2.59	BC	0.59	Foil and Braid
<b>Cable Group EG</b>							
RG59U Quad Shield	75	6.73	PEF	3.66	CCS	0.81	Braid/Foil/Braid/Foil
<b>Cable Group EH</b>							
Flex 3	75	3.6	PE	2.3	BC	0.4	Foil and Braid
<b>Cable Group EJ</b>							
Canare L-2.5CHWS	75	4.2	PE	2.6	BC	0.6	Foil and Braid
<b>Cable Group FA</b>							
Belden 1855ENH	75	4.45	PEF	2.8	TC	0.6	Foil and Braid
Belden 70080NH	75	4.45	PEF	2.9	BC	0.65	Foil and Braid
Belden H123A02	75	4.3	PEF	2.9	CU	0.65	Foil and Braid
Bryant BD SD01	75	4.5	PEF	2.8	BC	0.6	Foil and Braid
Canford SDV	75	4.5	PEF	2.8	BC	0.6	Foil and Braid
Canford SDV-LFH	75	4.6	PEF	2.8	BC	0.6	Foil and Braid
Canford SDV-X-LFH	75	4.5	PEF	2.8	BC	0.64	Foil and Braid
Conducfil 9890	75	4.5	PEF	2.8	BC	0.6	Foil and Braid

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Cable Type	Impedance Ohms	Jacket O/D mm	Dielectric Material	Dielectric O/D	Centre Conductor Material	Centre Conductor O/D mm	Shielding Outer Conductor
<b>Cable Group FA</b>							
Draka HD PRO 0.6/2.8AF	75	4.5	PEF	2.8	BC	0.6	Foil and Braid
Draka Ultra HD Pro 50	75	4.5	PEF	2.9	SC	0.7	Foil and Braid
Image 360	75	4.6	PEF	2.95	BC	0.6	Foil and Braid
Percon VK4	75	4.4	PEF	2.6	BC	0.57	Foil and Braid
Percon VK5	75	4.5	PEF	2.8	BC	0.57	Foil and Braid
Percon VK50 Silver+	75	4.5	PEF		SC	0.57	Foil and Braid
Van Damme SDI Vision	75	4.5	PEF	2.8	BC	0.6	Foil and Braid
<b>Cable Group FB</b>							
70081NH	75	5.92	PEF	3.68	BC	0.81	Bonded Foil and Braid
Belden 1505A	75	5.94	PEF	3.68	BC	0.81	Foil and Braid
Belden 4505ANH	75	5.99	PEF	3.7	BC	0.81	Bonded Foil and Braid
Belden 4505R	75	5.94	PEF	3.68	BC	0.81	Foil and Braid
Belden 70081NH	75	5.92	PEF	3.68	BC	0.81	Foil and Braid
Bryant BD SD50A	75	6.1	PEF	3.7	BC	0.8	Foil and Braid
Canare L-4CFB	75	6.1	PEF	3.7	BC	0.8	Foil and Braid
Canare L-4CHD	75	6.1	PEF	3.68	BC	0.82	Foil and Braid
Canford SDV-I-X-LFH	75	5.9	PEF	3.7	BC	0.8	Foil and Braid
Conducfil 14472	75	5.9	PEF	3.7	BC	0.8	Foil and Braid
Draka 0.8/3.7AF	75	5.9	PEF	3.7	BC	0.8	Foil and Braid
Draka HD PRO 0.8/3.7 AF	75	5.9	PEF	3.7	BC	0.8	Foil and Braid
Image 720	75	5.9	PEF	3.7	BC	0.8	Foil and Braid
Percon VK6	75	6	PEF	3.7	BC	0.81	Foil and Braid
Percon VK66	75	6.14	PEF	3.7	BC	0.97	Double Copper Braid
<b>Cable Group FC</b>							
70082NH	75	6.96	PEF	4.57	BC	1.02	Bonded Foil and Braid
Belcom Event Series HD1000 LSZH FireFighter	75	6.8	PEF	4.8	BC	1	Foil and Braid
Belden 1694A	75	6.96	FHPE	4.57	BC	1.016	Foil and Braid
Belden 1694F	75	7.01	PEF	4.57	BC	1.02	Double Copper Braid
Belden 4694F	75	7.0	FHPE	4.57	BC	1.02	Double Copper Braid

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Cable Type	Impedance Ohms	Jacket O/D mm	Dielectric Material	Dielectric O/D	Centre Conductor Material	Centre Conductor O/D mm	Shielding Outer Conductor
<b>Cable Group FC</b>							
Belden 4694R	75	6.98	PEF	4.57	BC	1.02	Copper Braid
Belden H124Co2	75	7.0	Foam	4.4	BC	1.0	Bonded Foil and Braid
Bryant BD SD10F	75	7	PEF	4.57	BC	1.1	Double Copper Braid
Bryant BD SD11	75	6.8	PEF	4.45	BC	1.02	Foil and Braid
Canare L-5CFB	75	7.7	PEF	4.9	BC	1.05	Foil and Braid
Canare L-5CHD	75	7.0	PEF	4.57	BC	1.02	Foil and Braid
Canford SDV-F	75	6.8	FHPE	4.8	BC	1	Foil and Braid
Canford SDV-L	75	6.8	FHPE	4.8	BC	1	Foil and Braid
Canford SDV-L-LFH	75	6.8	FHPE	4.8	BC	1	Foil and Braid
Canford SDV-L-RR	75	10.4	FHPE	4.8	BC	1	Foil and Braid
Canford SDV-L-SR	75	6.8	FHPE	4.8	BC	1	Foil and Braid
Canford SDV-L-X-LFH	75	7	FHPE	4.8	BC	1	Foil and Braid
Conducfil 13653	75	6.8	PEF	4.45	BC	1.02	Foil and Braid
Draka 1.0/4.8 AF	75	7	PEF	4.8	BC	1	Foil and Braid
Draka HD PRO 1.0/4.8 AF	75	7	PEF	4.8	BC	1	Foil and Braid
Draka HD PRO FLEX 1.0L/4.8 AF Dz	75	7	FHPE	4.8	BC	1	Double Copper Braid
Image 1000	75	6.8	PEF	4.8	BC	1	Foil and Braid
Percon VK7	75	7	PEF	4.7	BC	1.02	Foil and Braid
Percon VK70 ENH	75	7.1	PEF	4.7	BC	1.02	Foil and Braid
Percon VK77	75	7	PEF	4.7	BC	1.08	Double Copper Braid
<b>Cable Group FD</b>							
Belden 7431R	75	10.16	PEF	7.11	BC	1.63	Foil/Braid/Foil
Belden 7731A	75	10.2	PEF	7.11	BC	1.63	Foil and Braid
Belden 9292	75	10.28	PEF	7.11	BC	1.62	Foil and Braid
Bryant BD SD70	75	10.1	PEF		BC	1.63	Foil and Braid
Canford SDV-HD	75	10.2	FHPE	7.5	BC	1.63	Foil and Braid
Canford SDV-HD-LFH	75	10.2	FHPE	7.5	BC	1.63	Foil and Braid
Draka 1.6/7.3 AF	75	10.3	PEF	7.3	BC	1.6	Foil and Braid
Image 2000	75	10.3	PEF	7.3	BC	1.6	Foil and Braid

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Cable Type	Impedance Ohms	Jacket O/D mm	Dielectric Material	Dielectric O/D	Centre Conductor Material	Centre Conductor O/D mm	Shielding Outer Conductor
<b>Cable Group FE</b>							
Belden 1505F	75	6.15	PEF	3.68	BC	0.79	Double Copper Braid
Bryant BD SD50F	75	6.15	PEF	3.68	BC	0.79	Double Copper Braid
<b>Cable Group FF</b>							
Draka 1.2L/4.8DZ	75	7.2	PEF	4.8	BC	1.2	Double Copper Braid
Draka Ultra HD Pro 100	75	7	PEF	4.9	SC	1.2	Foil and Braid
Sommer 600-0214	75	7.1	PEF	4.8	BC	1.2	Double Copper Braid
<b>Cable Group FG</b>							
CM2231	75	6	PE	3.8	CU		Foil and Braid
CM3641	75	6	PE	3.8	CU		Foil and Braid
<b>Cable Group FH</b>							
Conducfil 14510	75	9.2	PEF	6.4	BC	1.4	Foil and Braid
Conducfil 14511	75	9.2	PEF	6.4	BC	1.4	Foil and Braid
<b>Cable Group FI</b>							
Belden 1794A	75	8.13	PEF	5.72	BC	1.29	Foil and Braid
Belden 4794R	75	8.13	FHPE	5.72	SPC	1.29	Foil/Braid/Foil
<b>Cable Group FJ</b>							
CoaxPress High Flex 0.7/7.0	75	7.0	PE	4.35	TC	0.7	Copper Braid
<b>Cable Group GA</b>							
PSF 1/2	75	7.5	PE	4.85	BC	0.8	Double Copper Braid
<b>Cable Group HA</b>							
RG405 (.085")	50	2.2	PTFE	1.68	SCCS	0.51	Solid Copper Tube
<b>Cable Group HB</b>							
RG402 (.141")	50	3.58	PTFE	3.02	SCCS	0.91	Solid Copper Tube
<b>Cable Group HC</b>							
RG401 (.250")	50	6.35	PTFE	5.31	SC	1.63	Solid Copper Tube
SCF14-50J 1/4" CELLFLEX	50	7.8	Foam	4.3	CCA	1.9	Solid Copper Tube
<b>Cable Group HD</b>							
0.047" Semi-Rigid	50	1.194	PTFE	0.94	SCCS	0.287	Solid Copper Tube

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<b>Cable Group JB</b>							
Percon VK60 Silver+	75	5.9	PEF		SC	0.81	Foil and Braid
<b>Cable Group JC</b>							
Percon VK70 Silver+	75	7.1	PEF		SC	1.02	Foil and Braid
<b>Cable Group JD</b>							
Percon VK80 Silver+	75	9.2	PEF		SC	1.29	Foil and Braid
<b>Cable Group JF</b>							
Percon VK90 Silver+	75	10.5	PEF		SC	1.63	Foil and Braid
<b>Cable Group KA</b>							
Alpha Wire 9444	50	0.0105"	PEF	0.0062"	SCCS	0.0024"	Copper Braid

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# Product safety notice.

The following warning statement must be read in conjunction with the product data sheet or catalogue. Failure to observe this information and the operating conditions specified could result in hazardous conditions.

## Application.

RF connectors are generally used in low voltage circuits, however care should be taken to ensure that any connector with an exposed contact is not used when hazardous voltages are possible and the touching of a contact could cause an electric shock. Voltages in excess of 30 Vac or 42.5 Vdc are potentially hazardous and care should be taken to ensure that such voltages cannot be transmitted in any way to exposed metal parts of the connector body. Before making live, the connector and wiring should be checked for no damage to metal parts or insulators, no solder blobs, loose strands, conducting lubricants, swarf, or any other undesired conducting particles. Circuit resistance and continuity check should be made to ensure that there are no high resistance joints or spurious conducting paths. Always use the correct application tools as specified in the Data Sheet or Catalogue. Do not permit untrained personnel to wire, assemble or tamper with connectors. For operation voltage please see appropriate national regulations.

## Materials & form.

Electrical connectors do not usually contain hazardous materials. They contain conducting and non-conducting materials and are usually manufactured from either: copper, copper alloys, nickel, zinc, alumel, chromel or steel. In special applications, other alloys may be specified.

## Fire & electric shock hazard.

There is no fire hazard when the connector is correctly wired and used within the specified parameters. Incorrect wiring or assembly of the connector or careless use of metal tools or conductive fluids, or transit damage to any of the component parts may cause electric shock or burns. Live circuits must not be broken by separating mated connectors as this may cause arcing, ionization and burning. Heat dissipation is greater at maximum resistance in a circuit. Hot spots may occur when resistance is raised locally by damage, e.g. cracked or deformed contacts, broken strands of wire. Local overheating may also result from the use of the incorrect application tools or from poor quality soldering or slack screw terminals. Overheating may occur if the ratings in the product Data Sheet or Catalogue are exceeded and can cause breakdown of insulation and hence electric shock. If heating is allowed to continue it intensifies by further increasing the local resistance through loss of temper of spring contacts, formation of oxide film on contacts and wires and leakage currents through carbonisation of insulation and tracking paths. Fire can then result in the presence of combustible materials and this may release noxious fumes. Overheating may not be visually apparent. Burns may result from touching overheated components.

## Handling.

Care must be taken to avoid damage to any component parts of electrical connectors during installation and use. Although there are normally no sharp edges, care must be taken when handling certain components to avoid injury to fingers. Electrical connectors may be damaged in transit to the customers, and damage may result in creation of hazards. Products should therefore be examined prior to installation/use and rejected if found to be damaged.

## Disposal.

Burning of certain materials may release noxious or toxic fumes.

## Important information.

Operating voltage: The admissible operating voltages depend on the individual applications and the valid national and other applicable safety regulations. For this reason, operating voltages, where quoted, are reference values only.

## General information.

COAX Connectors Limited continuously works to improve their products. Therefore, COAX Connectors Limited products may deviate from the description, technical data and shape as shown in this catalogue and data sheets.

## Product warranty.

COAX Connectors Limited manufactures high quality products; however these products are intended to be used in accordance with the product data sheet and assembly procedure. Any use or application that deviates from the stated operating specifications is not recommended and may be unsafe. No information and data contained in this publication shall be construed to create any liability on the part of COAX Connectors Limited. A limited warranty applies to COAX Connectors Limited products. Except for obligations assumed by COAX Connectors Limited under this warranty, COAX Connectors Limited shall not be liable for any loss, damage, cost of repairs, incidental or consequential damages of any kind, whether or not based on express or implied warranty contract, negligence or strict liability arising in connection with the design, manufacture, sale, use or repair of the products. This publication is not to be construed as an offer, it is intended merely as an invitation to make an offer. By this publication, COAX Connectors Limited does not assume responsibility or any liability for any patent infringements or other rights of third parties which may result from its use. Reprinting this publication is generally permitted by indicating the source, however, prior consent must be obtained from COAX Connectors Limited, in all cases.

# Quality Performance Reliability

Whether you need advice on connectors, cable assemblies, wish to place an order or discuss a bespoke solution, our team of experienced engineers, technical advisors and designers are here to take your call.

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