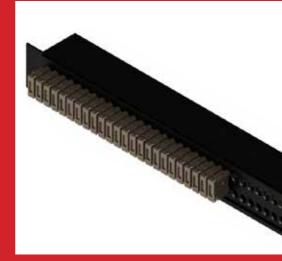


Broadcast connectors

North American edition





www.coax-connectors.com









Partner with COAX

COAX Connectors Ltd is the 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.

The range shown in this short form brochure includes BNC, Micro BNC (HD BNC), and DIN 1.0/2.3, that can be used with North American standard crimp tooling. COAX also offer a wide range of other 50 & 75 ohm RF connectors and cable assemblies, including SMA, SMB, N Type, TNC, MCX etc.

Many of our connectors are available from stock for fast delivery, but where a bespoke solution is required we have the design capability to deliver a complete end to end service to 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 prodction part.

The full range of 75ohm connectors can be found at www.coax-connectors.com



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. If you require a broadcast connector for a 3G appliction we have many connectors to choose from in our 3G BNC range, including cable connectors and various PCB styles. A small selection of these 3G BNC connectors are featured at the front of this brochure with many more available on our website.

Also in this publication we feature our high performance 12G connectors which will allow your business to stay at the forefront of technological advancements in single channel 12G transmission. Within this brochure you will find 12G DIN 1.0/2.3 connectors, plus our range of 12G BNC and Micro BNC (HD BNC) connectors that are specifically designed to handle 4K, SMPTE ST2082-1 transmissions. These connectors are suitable for a range of cable sizes and are tested to 18GHz. All of our 12G connectors are of course backwardly compatible so provide the flexibility of being suitable for use at 3G all the way up to 12G.

3G BNC pages 5-12

The extensive range of 75ohm BNCs includes a selection rated for use up to 3GHz +. These connectors suitable for 3G have a nickel plated outer contact and offer a lower cost solution when compared to the 12GHz versions with gold plated outer contacts.

12G BNC pages 14-19

The 'KORUS' 12G BNC range have distinctive black coupling nuts together with gold plated inner and outer contacts. 'KORUS' connectors can be used to easily distinguish new 12G circuits from the existing infrastructure. Permitting 12G transmission over a single channel with low return loss, the KORUS range of connectors includes: straight plugs, straight jacks, right angle plugs, bulkhead jacks, PCB end launch jacks, and adaptors. Nickel plated versions are available for many of these connectors also.

Micro BNC (HD BNC) pages 20-27

As equipment footprints reduce, the Micro BNC range has been developed to meet the demand for smaller 750hm RF connectors that save space, yet still provide low loss transmission at high broadcast frequencies. These connectors have been tested up to 18GHz and are suitable for 12G transmissions. Micro BNC, in certain parts of the industry, is referred to as HD BNC and both are fully compatible and intermateable. The Micro BNC from COAX has a unique and patented coupling nut that is extended at the back to make handling easier in confined spaces. United States Patent No. 9.071.013 applies.

DIN 1.0/2.3 page 28

3G and 12G DIN 1.0/2.3 connectors are available. The small size of these micro miniature connectors makes them suitable for high density mounting. They feature push pull coupling and gold plated inner and outer contacts.

NEW - microMUSA Patchbay System pages 30-31

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 2 variants, 2x32-way and 2x48-way, populated with 12G BNCs and 12G Micro BNCs respectively. MicroMUSA U-Links which are suitable for either panel feature finger grips and positive locking for reliable mating. Patch cords which are made with 12G rated cable complete the system.



Straight crimp plug

These connectors for applications up to 4.5GHz have a nickel plated outer contact, gold plated inner contact and bright nickel coupling nut.



| Part Number | Typical Cable Types (for more visit website) | Cable Group | Centre Contact Crimp | Outer Contact Crimp | Features |
|----------------|---|----------------|---------------------------|------------------------|----------------------|
| 10-005-B36-BH | Belden 735A1, Belden 735C1 | ВН | 0.068" Hex (1.72mm) | 0.178" Hex (4.52mm) | 3G. Tested to 4.5GHz |
| 10-005-B36-EF1 | Belden 1855A, Belden 1865A, Belden 4855R , Canare L-2.5CFB, Canare L-2.5CHD | EF | 0.042" Square (1.07mm) | 0.178" Hex (4.52mm) | 3G. Tested to 4.5GHz |
| 10-005-B36-FB1 | Belden 1505A, Belden 70081NH, Belden 4505R, Canare L-4CFB, Canare L-4CHD | FB | 0.042" Square (1.07mm) | 0.255" Hex (6.48mm) | 3G. Tested to 4.5GHz |
| 10-005-B36-FC1 | Belden 1694A, Belden 1694F, Belden 4694F, Belden 4694R , Canare L-5CFB, Canare L-4.5CHD | FC | 0.042" Square (1.07mm) | 0.278" Hex (7.06mm) | 3G. Tested to 4.5GHz |
| 10-005-B36-FD | Belden 4731R, Belden 7731A, Belden 4731R | FD | 0.10" Hex (2.54mm) | 0.429" Hex (10.9mm) | 3G. Tested to 4.5GHz |
| 10-005-B36-FE | Belden 1505F | FE | 0.068" Hex (1.72mm) | 0.255" Hex (6.48mm) | 3G. Tested to 4.5GHz |

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.

Straight crimp jack

These True 75 ohm straight crimp jacks are for applications up to 4.5GHz. Contact and crimp sleeve are annealed to provide a robust and durable termination, centre contact is gold plated.

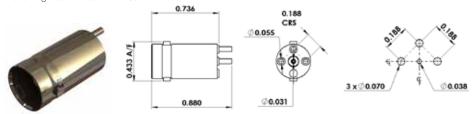


| Part Number | Typical Cable Types (for more visit website) | Cable Group | Centre Contact Crimp | Outer Contact Crimp | Features |
|----------------|---|----------------|---------------------------|------------------------|----------------------|
| 10-054-B36-EF1 | Belden 1855A, Belden 1865A, Belden 4855R Canare L-2.5CFB, Canare L-2.5CHD | EF | 0.042" Square (1.07mm) | 0.178" Hex (4.52mm) | 3G. Tested to 4.5GHz |
| 10-054-B36-FB1 | Belden 1505A, Belden 70081NH, Belden 4505R, Canare L-4CFB, Canare L-4CHD | FB | 0.042" Square (1.07mm) | 0.255" Hex (6.48mm) | 3G. Tested to 4.5GHz |

BNC 75 ohm 3G BNC 75 ohm 3G

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 0.736".



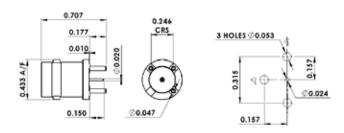
| Part Number | Orientation | Specification | Features |
|--------------|-------------|---------------|--|
| 10-486-1-B36 | Straight | 3G | Three round legs - True 75 ohm - 4.5 GHz |

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 0.53".



| Part Number | Orientation | Specification | Features |
|-------------|-------------|---------------|--|
| 10-486-B36 | Straight | 3G | 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 True 75 ohm versions for use up to and beyond 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 | Orientation | Drawing (| dimension B | Specification | Features |
|-----------------|-------------|-----------|----------------|---------------|--|
| 10-450-B36-13.8 | Straight | 0.543" | 0.177" | 3G | Figure 1 - 3GHz True 75 ohm |
| 10-450-B6 | Straight | 0.543" | 0.177" | 3G | Figure 1 |
| 10-491-B6 | Straight | 0.736" | 0.177" | 3G | Figure 1 |
| 10-491-B6-45 | Straight | 0.736" | 0.177" | 3G | As Figure 1 with legs 45° rotated relative to lugs |
| 10-452-B6 | Straight | 0.787" | 0.17" | 3G | Figure 2 |

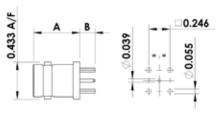


Figure 1

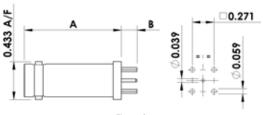


Figure 2

BNC 75 ohm 3G BNC 75 ohm 3G

Right angle PCB through hole solde 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 our website for details.

Connectors are supplied complete with nut and lock washer. 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.





| Part Number | Dimension A | Dimension B | Orientaion | Mounting Type | Specification | Features |
|-------------|----------------|----------------|-------------|------------------|---------------|---------------------------------|
| 10-466-A8 | 0.28" | 0.508" | Right angle | Bulkhead | 3G | Figure 1 - Low Profile |
| 10-468-A8 | 0.323" | 0.598" | Right angle | Bulkhead | 3G | Figure 2 |
| 10-466-1-A8 | 0.323" | 0.598" | Right angle | Bulkhead | 3G | Figure 2 * |
| 10-471-K1 | 0.272" | 0.516" | Right angle | Bulkhead | 3G | Figure 3 - White insulated body |
| 10-471-K6 | 0.272" | 0.516" | Right angle | Bulkhead | 3G | 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

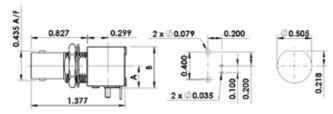


Figure 1, 2, 3

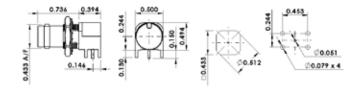


Right angle PCB bulkhead mount

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 424M, and other 75 ohm low loss signal applications.

| Part Number | Orientation | Mounting Type | Specification | Features |
|-------------|-------------|---------------|---------------|--------------------|
| 10-470-B36 | Right angle | Bulkhead | 3G | 3GHz Nickel plated |
| 10-416-D66 | Right angle | Bulkhead | 3G | 3GHz Gold plated |

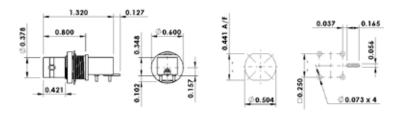




Right angle PCB bulkhead mount, with surface mount centre contact

This right angle PCB connector is designed to give True 75 ohm performance offering exceptional low return loss up to 4.5CHz. 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 Tooling section of this catalogue.

| Part Number | Orientation | Mounting Type | Specification | Features |
|-------------|-------------|---------------|---------------|-------------------------------------|
| 10-482-B36 | Right Angle | Bulkhead | 3G | 4.5 GHz nickel plated, SMT contact. |



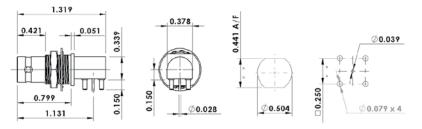
BNC 75 ohm 3G BNC75 ohm 3G

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



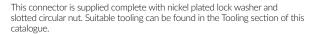
The right angle body has a very low profile, with a height of only 0.394" above the board. Fixing is through hole solder pegs.



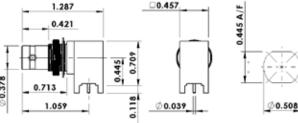
| Part Number | Orientation | Mounting Type | Specification | Features |
|--------------|-------------|---------------|---------------|--------------------|
| 10-470-2-B36 | Right angle | Buklhead | 3G | 3GHz nickel plated |

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.



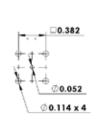




10

| Part Number | Orientation | Mounting Type | Specification | Features |
|-------------|-------------|---------------|---------------|--------------------|
| 10-468-B36 | Right angle | Bulkhead | 3G | True 75 ohm - 3GHz |



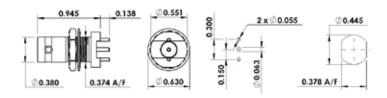


Straight bulkhead PCB solder jack

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 our website for details.

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

Suitable for use in applications up to 6GHz.



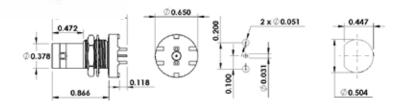
| Part Number | Orientation | Mounting Type | Specification | Features |
|-------------|-------------|---------------|---------------|---------------------|
| 10-487-B36 | Straight | Bulkhead | 3G & 6G | True 75 ohm - 6 GHz |

Straight bulkhead PCB jack with panel seal

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 COAX website for details.

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

Suitable for use in applications up to 3GHz.



| Part Number | Orientation | Mounting Type | Specification | Features |
|-------------|-------------|---------------|---------------|------------------------------------|
| 10-455-B36 | Straight | Bulkhead | 3G | True 75 ohm - 3GHz with panel seal |

BNC75 ohm 3G

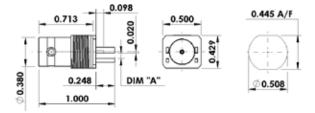
PCB end launch bulkhead mount

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 section on COAX website for details.



| Part Number | Orientation | Mounting Type | Dimension A | Contact length | Specification | Features |
|------------------|-------------|------------------|-------------|-------------------|---------------|--|
| 10-462-B36 - 1.6 | End launch | Bulkhead | 0.067" | 0.079" | 3G | 0.063" board 3GHz, nickel plated body |
| 10-462-B36-1.85 | End launch | Bulkhead | 0.076" | 0.098" | 3G | 0.073" board 3GHz, nickel plated body |





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

www.coax-connectors.com

BNC 75 ohm 12G BNC 75 ohm 12G





Straight crimp plug

The 12G BNC plugs are available with either the 'KORUS' black coupling nuts or standard nickel.

Whilst designed specifically for 12G use these high performance plugs can equally be used for a range of applications from 3G to12G.

| Part Number | Typical Cable Types (for more visit website) | Cable Group | Centre Contact Crimp | Outer Contact Crimp | Features |
|-----------------|---|----------------|--------------------------|------------------------|-------------------------------|
| 10-005-W126-EF1 | Belden 1855A, Belden 1865A Belden 4855R, Canare L-2.5CFB, Canare L-2.5CHD | EF | 0.042"Square (1.07mm) | 0.178" Hex (4.52mm) | 'KORUS' Black Coupling Nut |
| 10-005-W126-FB1 | Belden 1505A Belden 70081NH Belden 4505R, Canare L-4CFB, Canare L-4CHD | FB | 0.042"Square (1.07mm) | 0.255"Hex (6.48mm) | 'KORUS' Black Coupling Nut |
| 10-005-W126-FC1 | Belden 1694A, Belden 1694F Belden 4694F, Belden 4694R, Canare L-5CFB, Canare L-4.5CHD | FC | 0.042"Square (1.07mm) | 0.278"Hex (7.06mm) | 'KORUS' Black Coupling Nut |
| 10-005-W126-FD | Belden 7731A, 4731R | FD | 0.10" Hex (2.54mm) | 0.429 Hex (10.9mm) | 'KORUS' Black Coupling Nut |
| 10-005-W126-FI | Belden 1794A Belden 4794R | FI | 0.10"Hex (2.54mm) | 0.429" Hex (10.9mm) | Nickel Coupling Nut |
| 10-005-D126-EF1 | Belden 1855A, Belden 1865A Belden 4855R, Canare L-2.5CFB, Canare L-2.5CHD | EF | 0.042"Square (1.07mm) | 0.178" Hex (4.52mm) | Nickel Coupling Nut |
| 10-005-D126-FB1 | Belden 1505A Belden 4505R, Belden 70081NH, Canare L-4CFB, Canare L-4CHD | FB | 0.042"Square (1.07mm) | 0.255"Hex (6.48mm) | Nickel Coupling Nut |
| 10-005-D126-FC1 | Belden 1694A, Belden 1694F, Belden 4694F, Belden 4694R, Canare L-5CFB,Canare L-4.5CHD | FC | 0.042"Square (1.07mm) | 0.278"Hex (7.06mm) | Nickel Coupling Nut |
| 10-005-D126-FI | Belden 1794A Belden 4794R | FI | 0.10"Hex (2.54mm) | 0.429" Hex (10.9mm) | Nickel Coupling Nut |



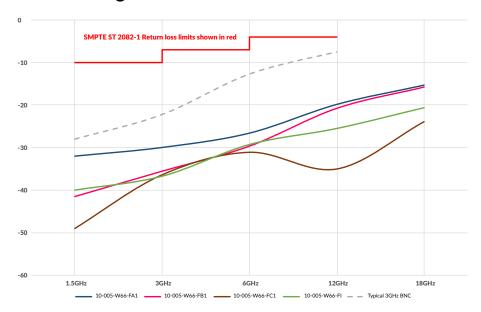
Right angle crimp plug

The 12G BNC plugs are available with either the 'KORUS' black coupling nuts or standard nickel.

Whilst designed specifically for 12G use these high performance right angle plugs can equally be used for a range of applications from 3G to12G.

| Part Number | Typical Cable Types (for more visit website) | Cable Group | Centre Contact Crimp | Outer Contact Crimp | Features |
|-----------------|---|----------------|--------------------------|------------------------|-------------------------------|
| 10-104-W126-EF1 | Belden 1855A, Belden 1865A Belden 4855R, Canare L-2.5CFB, Canare L-2.5CHD | EF | 0.042"Square (1.07mm) | 0.178" Hex (4.52mm) | 'KORUS' Black Coupling Nut |
| 10-104-W126-FB1 | Belden 1505ABelden 70081NH Belden 4505R, Canare L-4CFB, Canare L-4CHD | FB | 0.042"Square (1.07mm) | 0.255"Hex (6.48mm) | 'KORUS' Black Coupling Nut |
| 10-104-W126-FC1 | Belden 1694A, Belden 1694F, Belden 4694F, Belden 4694R , Canare L-5CFB, Canare L-4.5CHD | FC | 0.042"Square (1.07mm) | 0.278"Hex (7.06mm) | 'KORUS' Black Coupling Nut |
| 10-104-D126-EF1 | Belden 1855A, Belden 1865A Belden 4855R, Canare L-2.5CFB, Canare L-2.5CHD | EF | 0.042"Square (1.07mm) | 0.178" Hex (4.52mm) | Nickel Coupling Nut |
| 10-104-D126-FB1 | Belden 1505A, Belden 70081NH Belden 4505R, Canare L-4CFB, Canare L-4CHD | FB | 0.042"Square (1.07mm) | 0.255"Hex (6.48mm) | Nickel Coupling Nut |
| 10-104-D126-FC1 | Belden 1694A, Belden 1694F Belden 4694R, Canare L-5CFB, Canare L-4.5CHD | FC | 0.042"Square (1.07mm) | 0.278"Hex (7.06mm) | Nickel Coupling Nut |

12G BNC Plug return loss



Testing notes

The above data was derived from the tests carried out on the connector part numbers indicated, and where possible using a cable rated by the manufacturer for 12G use. Where no suitable 12G cable was available, the best performing equivalent was used.

Cables & cable groups

| COAX Cable | Т | ypical Cable Dimension | าร | Typical Cable Types for more information visit |
|---------------|------------------|------------------------|------------------|---|
| Group | Conductor | Insulation | Jacket | www.coax-connectors.com |
| EF | 0.023" 0.58mm | 0.102" 2.59mm | 0.159" 4mm | Belden 1855A, Belden 1865A, Belden 4855R , Canare L-2.5CFB, Canare L-2.5CHD |
| FB | 0.032" 0.81mm | 0.145" 3.68mm | 0.234" 5.94mm | Belden 1505A, Belden 70081NH, Belden 4505R, Canare L-4CFB, Canare L-4CHD |
| FC | 0.04" 1.02mm | 0.18" 4.57mm | 0.275" 7mm | Belden 1694A, Belden 1694F Belden 4694F, Belden 4694R, Canare L-5CFB, Canare L-4.5CHD |
| FI | 0.051" 1.29mm | 0.225" 5.72mm | 0.32" 8.13mm | Belden 1794A, Belden 4794R |
| | | | | |

Cables shown are typical of those that can be used with a COAX connector in a specified 'Cable Group' The inclusion of any cable above does not necessarily indicate that it is suitable for any specific application, 12G or otherwise. Please check cable manufacturer specification for suitability. BNC 75 ohm 12G BNC 75 ohm 12G



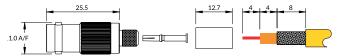
Straight crimp jack

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.

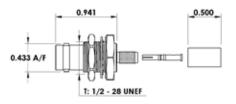
See table below for crimp sizes; suitable tooling can be found in the Accessories & Tooling section of this catalogue.

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 | Outer Contact | Features |
|-----------------|--|----------------|---------------------------|------------------------|--------------------------|
| 10-054-D126-BH | Belden 735A1, Belden 735C1 | ВН | 0.042" Square (1.07mm) | 0.213" Hex (5.41mm) | 3G, 6G and 12G compliant |
| 10-054-D126-EF1 | Belden 1855A, Belden 1865A, Belden 4855R Canare L-2.5CFB, Canare L-2.5CHD | EF | 0.042" Square (1.07mm) | 0.178" Hex (4.52mm) | 3G, 6G and 12G compliant |
| 10-054-D126-FB1 | Belden 1505A, Belden 70081NH, Belden 4505R, Canare L-4CFB, Canare L-4CHD | FB | 0.042" Square (1.07mm) | 0.255" Hex (6.48mm) | 3G, 6G and 12G compliant |
| 10-054-D126-FC1 | Belden 1694A, Belden 1694F Belden 4694F, Belden 4694R, Canare L-5CFB,Canare L-4.5CHD | FC | 0.042" Square (1.07mm) | 0.278" Hex (7.06mm) | 3G, 6G and 12G compliant |
| 10-054-D126-FD | Belden 4731R Belden 7731A | FD | 0.10" Hex (2.54mm) | 0.429" Hex (10.9mm) | 3G, 6G and 12G compliant |
| 10-054-D126-FI | Belden 1794A Belden 4794R | FI | 0.10" Hex (2.54mm) | 0.429" Hex (10.9mm) | 3G, 6G and 12G compliant |



Straight bulkhead jack insulated







| Part Number | Typical Cable Types (for more visit website) | Cable Group | Centre Contact Crimp | Outer Contact Crimp | Features |
|-----------------|---|----------------|--------------------------|------------------------|-----------------------------|
| 10-258-D126-EF1 | Belden 1855A, Belden 1865A Belden 4855R Canare L-2.5CFB, Canare L-2.5CHD | EF | 0.042"Square (1.07mm) | 0.178" Hex (4.52mm) | 3G, 6G and 12G compliant |
| 10-258-D126-FB1 | Belden 1505A, Belden 70081NH, Belden 4505R, Canare L-4CFB, Canare L-4CHD | FB | 0.042"Square (1.07mm) | 0.255"Hex (6.48mm) | 3G, 6G and 12G compliant |
| 10-258-D126-FC1 | Belden 1694A, Belden 1694F Belden 4694F, Belden 4694R , Canare L-5CFB,Canare L-4.5CHD | FC | 0.042"Square (1.07mm) | 0.278"Hex (7.06mm) | 3G, 6G and 12G compliant |

PCB end launch bulkhead mount

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 though hole soldered versions.

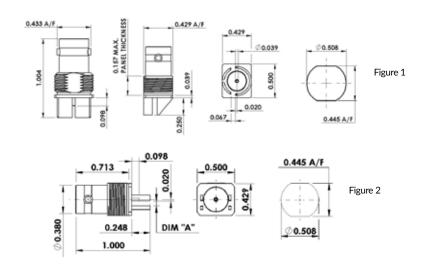
Supplied with or without nut and lock washer for panel mounting. Alternative slotted circular fixing nuts (100-075) are also available, see accessories section on COAX website for details.

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





| Part Number | Centre Contact | Outer Contact | Dimension A | Contact length | Features |
|-------------------|-------------------|------------------|-------------|----------------|---|
| 10-462-D126-1.6 | Solder | Solder | 0.067" | 0.098" | Figure 1 for 0.067" board 12GHz, gold plated body |
| 10-462-1-D126-1.6 | Solder | Solder | 0.067" | 0.098" | As above, without nut and washer |
| 10-462-D126-2.2 | Solder | Solder | 0.087" | 0.098" | Figure 1 for 0.087" board 12GHz, gold plated body |
| 10-462-1-D126-2.2 | Solder | Solder | 0.087" | 0.098" | As above, without nut and washer |
| 10-462-B126-1.6 | Solder | Solder | 0.067" | 0.098" | Figure 2 for 0.067" board 12GHz, nickel plated body |





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



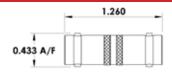


Figure 2



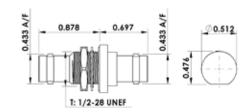


Figure 3



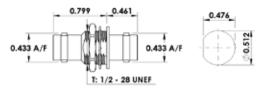


Figure 4



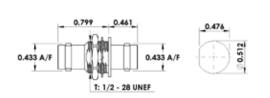


Figure 5

18



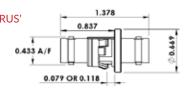




Figure 6 Figure 7





0.594

0.791



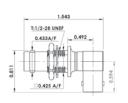
Figure 9



Figure 8

0.433 A/F





| Part Number | Figure | Description | Interface A | rrangement Right | Features |
|-------------|--------|--|-------------|---------------------|---|
| 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-B36 | Fig. 3 | Straight Bulkhead Insulated Adaptor | Jack | Jack | 4.5GHz nickel 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' 6GHz 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 75 ohm 6G & 12G
Micro BNC 75 ohm 6G & 12G



Micro BNC (HD BNC)

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

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

With a diameter of only 0.31" (7.8mm), mounting density is increased by more than 4 times when compared with a standard BNC. If space allows, the extended coupling nut (US Patent No. 9,071.013) enables the connectors to be mated and unmated without the use of a tool.

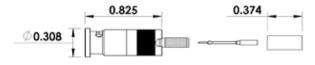
20

Key features:

- True 75 ohm
- Tested to 18 GHz
- Patented coupling nut for easy connection
- Meets SMPTE ST 2082-1 for 12G-SDI

Standard BNC 3.8" (96mm) Square Area 475% more 475% more 25 Connectors 144 Connectors 0.315" (8mm) Pitch

Straight crimp plug





| Part Number | Typical Cable Types (for more visit website) | Cable Group | Centre Contact | Outer Contact | Features |
|----------------|--|----------------|----------------------------|------------------------|--------------------------|
| 67-005-B66-AB | Belden 179DT | AB | 0.0375" Square (0.95mm) | 0.128" Hex (3.25mm) | 3G, 6G and 12G compliant |
| 67-005-B66-BH | Belden 735A1, Belden 735C1 | ВН | 0.0375" Square (0.95mm) | 0.178" Hex (4.25mm) | 3G, 6G and 12G compliant |
| 67-005-B66-EF | Belden 1855A, Belden 1865A Belden 4855R, Canare L-2.5CFB, Canare L-2.5CHD | EF | 0.042"Square (1.07mm) | 0.178" Hex (4.52mm) | 3G, 6G and 12G compliant |
| 67-005-B66-FB1 | Belden 1505A, Belden 70081NH, Belden 4505R, Canare L-4CFB, Canare L-4CHD | FB | 0.042"Square (1.07mm) | 0.255"Hex (6.48mm) | 3G, 6G and 12G compliant |
| 67-005-B66-FC | Belden 1694A, Belden 1694F, Belden 4694F Belden 4694R , Canare L-5CFB, Canare L-4.5CHD | FC | 0.042"Square (1.07mm) | 0.278"Hex (7.06mm) | 3G, 6G and 12G compliant |
| 67-005-B66-FI | Belden 1794A, Belden 4794R | FI | 0.068" Hex (1.72mm) | 0.324" Hex (8.23mm) | 3G, 6G and 12G compliant |

Straight crimp jack



| Part Number | Typical Cable Types (for more visit website) | Cable Group | Centre Contact | Outer Contact |
|----------------|---|----------------|--------------------------|------------------------|
| 67-054-B66-EF | Belden 1855A, Belden 1865A Belden 4855R, Canare L-2.5CFB, Canare L-2.5CHD | EF | 0.042"Square (1.07mm) | 0.178" Hex (4.52mm) |
| 67-054-B66-FB1 | Belden 1505A, Belden 70081NH' Belden 4505R, Canare L-4CFB, Canare L-4CHD | FB | 0.042"Square (1.07mm) | 0.255"Hex (6.48mm) |
| 67-054-B66-FC | Belden 1694A, Belden 1694F Belden 4694F, Belden 4694R, Canare L-5CFB, Canare L-4.5CHD | FC | 0.042"Square (1.07mm) | 0.278"Hex (7.06mm) |

H

Figure 1



Figure 2

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

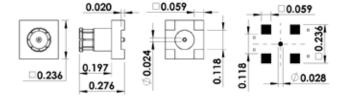
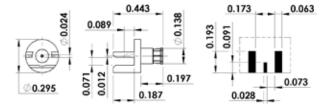
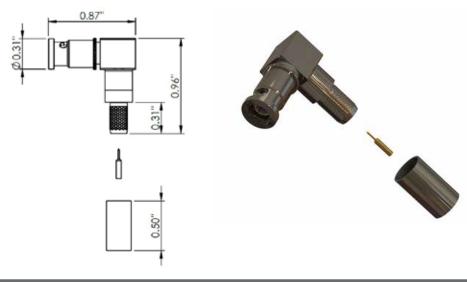


Figure 2



| 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 0.623" Board |

Right angle crimp plug



| Part Number | Typical Cable Types (for more visit website) | Cable Group | Centre Contact Crimp | Outer Contact Crimp | Features |
|-----------------|--|----------------|---------------------------|---------------------------|--------------------------|
| 67-104-B126-EF1 | Belden 1855A, Belden 1865A Belden 4855R, Canare L-2.5CFB, Canare L-2.5CHD | EF | 0.042" Square (1.07mm) | 0.178" Hex (4.52mm) | 3G, 6G and 12G compliant |
| 67-104-B126-FB1 | Belden 1505A, Belden 70081NH, Belden 4505R, Canare L-4CFB, Canare L-4CHD | FB | 0.042" Square (1.07mm) | 0.255" Hex (6.48mm) | 3G, 6G and 12G compliant |
| 67-104-B126-FC1 | Belden 1694A, Belden 1694F Belden 4694F, Belden 4694R , Canare L-5CFB, Canare L-4.5CHD | FC | 0.042" Square (1.07mm) | 0.278" Hex (7.06mm) | 3G, 6G and 12G compliant |



New Connectors

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

Straight and Right angle PCB jacks







| Part Number | Orientation | Mounting Type | Dimension A | Specification | Features |
|------------------|-------------|---------------|-------------|-----------------------------|---|
| 67-410-B126 | End Launch | Bulkhead | - | 3G, 6G and 12G compliant | SMT Centre Contact. Locking Legs. Available in tape and reel for pick and place assembly. |
| 67-454-D66 | Straight | Bulkhead | 0.146" | 3G and 6G compliant | Figure 3 |
| 67-454-1-D66 | Straight | Bulkhead | SMT | 3G, 6G and 12G compliant | Surface mount. Figure 3 |
| 67-454-2-D66 | Straight | - | 0.118" | 3G and 6G compliant | Figure 3 |
| 67-454-3-D66 | Straight | Bulkhead | 0.063" | 3G, 6G and 12G compliant | Figure 3 |
| 67-476-D66 12.25 | Straight | - | 0.490" | 3G and 6G compliant | Figure 1 - 3 Leg + Centre contact 12GHz |
| 67-476-D66-8.3 | Straight | - | 0.327" | 3G, 6G and 12G compliant | Figure 1 - 3 Leg + Centre contact 12GHz |
| 67-468-D66 | Right angle | Bulkhead | 0.094" | 3G, 6G and 12G compliant | Figure 2 |
| 67-468-1-D66 | Right angle | Bulkhead | 0.146" | 3G, 6G and 12G compliant | Figure 2 - Centre contact - plated 15μ " gold |
| 67-468-2-D66 | Right angle | Bulkhead | 0.079" | 3G, 6G and 12G compliant | Figure 2 |
| 67-468-3-D66 | Right angle | Bulkhead | 0.146" | 3G, 6G and 12G compliant | Figure 2 |

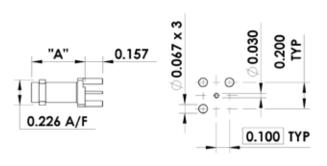
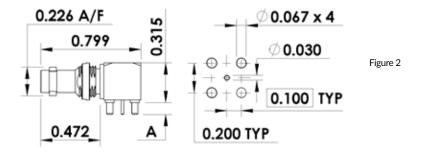
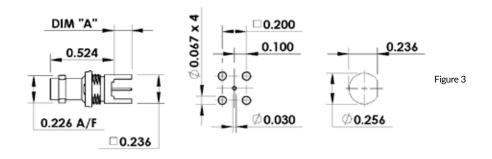


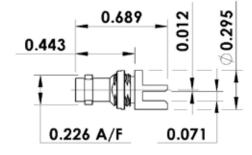
Figure 1











| Part Number | Orientation | Mounting Type | Specification | Features |
|----------------|-------------|---------------|---------------|---|
| 67-463-D66 1.6 | End Launch | Bulkhead | 12G | Board edge fitting to 0.0623" Board 12GHz |

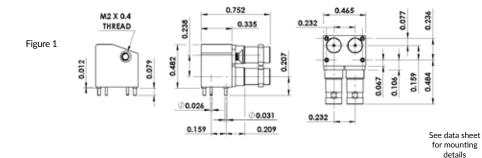
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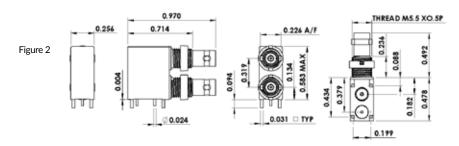
Twin right angle PCB jack Offset & vertical stacked



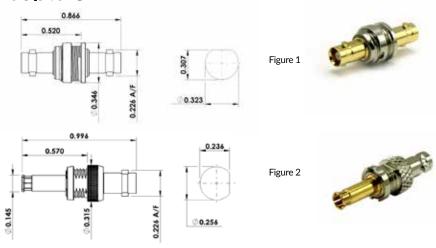


| Part Number | Orientation | Mounting Type | Specification | Features |
|--------------------|-------------|---------------|-----------------------------|---|
| 92-67-468-3 | Right angle | - | 3G, 6G and 12G compliant | Offset stacked with screw fix to panel. 0.079"PCB legs, Gold front body, Figure 1 |
| 92-67-468-3-BSN126 | Right angle | - | 3G, 6G and 12G compliant | Offset stacked with screw fix to panel. 0.079"PCB legs, Nickel front body, Figure 1 |
| 92-67-468-2-B126 | Right angle | Bulkhead | 3G, 6G and 12G compliant | Vertical stacked with bulkhead nut fixing to panel. 0.094" PCB legs Figure 2 |





Adaptors



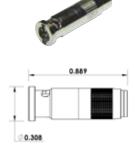
| Part Number | Orientation | Mounting | Specification | Features |
|-------------|-------------|----------|-----------------------------|--|
| 67-503-D126 | Straight | Bulkhead | 3G, 6G and 12G compliant | Bulkhead Jack to Jack with isolated metal threaded bush - Figure 1 |
| 67-512-B66 | Straight | Bulkhead | 3G, 6G and 12G compliant | Bulkhead Plug to Jack - without coupling nut on jack, for quick test applications - Figure 2 |

75 ohm termination

This plug device provides a 75 ohm termination for anyunused 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.

| Part Number | Features |
|-------------|---------------------------|
| 67-863-B36 | Return Loss: 26dB @ 12GHz |



General information and product safety notice.

This short form publication contains only limited information on a selected range of products. Information on safety, warranty, handling and full product details are contained in our catalogues, data sheets, website or can be supplied on request. Failure to observe this information and the operating conditions specified could result in hazardous conditions.

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



Straight crimp plug (12G)

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). Body parts are nickel plated and braid is terminated with a hexagon crimp.

| Part Number | Typical Cable Types (for more visit website) | Cable Group | Centre Contact Crimp | Outer Contact Crimp | Features |
|---------------|---|----------------|---------------------------|------------------------|----------------------|
| 52-005-B6-EF1 | Belden 1855A, Belden 1865A, Belden 4855R Canare L-2.5CFB, Canare L-2.5CHD | EF | 0.042" Square (1.07mm) | 0.178" Hex (4.52mm) | 12G. Tested to 18GHz |
| 52-005-B6-FB1 | Belden 1505A, Belden 70081NH, Belden 4505R Canare L-4CFB, Canare L-4CHD | FB | 0.042" Square (1.07mm) | 0.255" Hex (6.48mm) | 12G. Tested to 18GHz |
| 52-005-B6-FC1 | Belden 1694A, Belden 1694F, Belden 4694F ,Belden 4694R Canare L-5CFB, Canare L-4.5CHD | FC | 0.042" Square (1.07mm) | 0.278" Hex (7.06mm) | 12G. Tested to 18GHz |



Straight crimp jack (12G)

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

Depending on cable type, connectors are available for use up to 12GHz

| Part Number | Typical Cable Types (for more visit website) | Cable Group | Centre Contact Crimp | Outer Contact Crimp | Features |
|---------------|---|----------------|---------------------------|------------------------|----------------------|
| 52-054-D6-EF1 | Belden 1855A, Belden 1865A, Belden 4855R, Canare L-2.5CFB, Canare L-2.5CHD | EF | 0.042" Square (1.07mm) | 0.178" Hex (4.52mm) | 12G. Tested to 18GHz |
| 52-054-D6-FB1 | Belden 1505A, Belden 70081NH, Belden 4505R, Canare L-4CFB, Canare L-4CHD | FB | 0.042" Square (1.07mm) | 0.255" Hex (6.48mm) | 12G. Tested to 18GHz |
| 52-054-D6-FC1 | Belden 1694A, Belden 1694F, Belden 4694F, Belden 4694R , Canare L-5CFB, Canare L-4.5CHD | FC | 0.042" Square (1.07mm) | 0.278" Hex (7.06mm) | 12G. Tested to 18GHz |



Right angle Push-Pull crimp plug (3G)

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 is available (96-1023).

| Part Number | Typical Cable Types (for more visit website) | Cable Group | Centre Contact Crimp | Outer Contact Crimp | Features |
|--------------|--|----------------|-------------------------|------------------------|----------------------|
| 52-104-B6-AB | Belden 179DT | AB | Solder | 0.128" Hex (3.25mm) | 3G. Tested to 4.5GHz |
| 52-104-B6-FA | Belden 1855A, Belden 1855ENH, Belden 1865A, Belden 4855R | FA | Solder | 0.213" Hex (5.41mm) | 3G. Tested to 4.5GHz |

Tooling

See page 32



microMUSA12G microMUSA12G



microMUSA video patchbay

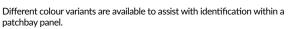
The microMUSA video patchbay system delivers 4K performance exceeding SMPTE ST2082-1, and is suitable for composite and component video, 270 Mb/s SDI, uncompressed 1080i or 1080p HD-SDI video and 4K UHD (2160P60) video up to 12GHz.

The patchbay part of the system is 1U size and there are two variants. The rear of the 2x32 version is poulated wth 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 compliant |
| 99-610-BK | 1U 2x48 | Micro BNC | Black | 3G, 6G and 12G compliant |

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.





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

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 compliant |
| 515-64XX-24 | 24" | See list below | 3G, 6G and 12G compliant |
| 515-64XX-36 | 36" | See list below | 3G, 6G and 12G compliant |
| 515-64XX-48 | 48" | See list below | 3G, 6G and 12G compliant |
| 515-64XX-72 | 72" | See list below | 3G, 6G and 12G compliant |

XX denotes boot colour

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

Crimp tools

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



| Part Number | Description | Crimp die sizes |
|-------------|-------------------|--|
| 96-HTS-75A | Rachet Crimp Tool | 0.0375" Square (0.95mm), 0.042" Square (1.07mm), 0.068" Hex (1.72mm), 0.213" Hex (5.41mm), 0.324" Hex (8.23mm) |
| 96-HTS-76 | Rachet Crimp Tool | 0.0375" Square (0.95mm), 0.068" Hex (1.72mm), 0.213" Hex (5.41mm), 0.255" Hex (6.48mm) |
| 96-HTS-77 | Rachet Crimp Tool | 0.042" Square (1.07mm), 0.178 Hex (4.52mm), 0.255" Hex (6.48mm), 0.278" Hex (7.06mm) |
| 96-HTS-43 | Rachet Crimp Tool | 0.0375" Square (0.95mm), 0.128" Hex (3.25mm), 0.178" Hex (4.52mm), 0.204" Hex (5.18mm) |
| 96-336K | Rachet Crimp Tool | 0.10" Hex (2.54mm), 0.128" Hex (3.25mm), 0.429" Hex (10.9mm) |

Extraction / insertion tools

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



| Part Number | Description |
|-------------|--|
| 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 |
| 96-2208 | BNC insertion & extractor tool 8" (200mm) |

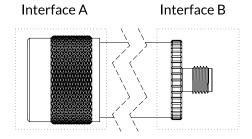


Inter-Series Adaptors

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.

| Part Number | Features |
|-----------------|--|
| 74-1067-500 | Micro BNC Jack to BNC Jack Straight Adaptor |
| 74-1067-511 | Micro BNC Jack to BNC Plug Straight Adaptor |
| 74-1067-514 | Micro BNC Plug to BNC Plug Straight Adaptor |
| 74-1067-534 | Micro BNC Plug to BNC Jack Straight Adaptor |
| 74-1052-500 | BNC Jack to Din 1.0/2.3 Jack 75 Ohm 6G Straight Adaptor |
| 74-1052-534-B36 | BNC Jack to Din 1.0/2.3 Plug 75 Ohm 6G Straight Adaptor |
| 74-1052-511-B36 | BNC Plug to Din 1.0/2.3 Jack 75 Ohm 6G Straight Adaptor |
| 52-503-D66 | DIN 1.0/2.3 Insulated Metal Thread Bulkhead Jack to Jack Adaptor 12G |



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

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 expose 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 expose d 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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