



Cambridge Connectors

A division of Cambridge Electronic Industries Ltd

12GHz Coaxial Connectors for High Speed High Definition Video Applications

Optimised for 4K/Quad HD and Ultra HD Broadcast

- One single connection for each 12GHz channel
- BNC and Micro BNC Styles
- Includes Right Angle, End Launch and Top Entry PCB Mounting Socket Styles
- Cable Ended BNC Plug for Belden 1694A



CoaxVision™

Cambridge Connectors
A Division of Cambridge Electronic Industries Ltd.
Denny Industrial Centre, Waterbeach, Cambridge, CB25 9QR, England
T: +44 1223 860041 F: +44 1223 863625
sales@cambridgeconnectors.com
www.cambridgeconnectors.com

12GSDI

January 2017

12GHz Micro BNC and BNC Coaxial Connectors for High Speed High Definition Video Applications

Until now, to communicate at the Bitrates associated with Ultra High Definition Television (referred to variously as “Ultra HD”, “UHD”, “UHDTV”, “4K UHD”) it has been necessary to employ 2 or even 4 channels. With this new range of BNC and Micro BNC connectors from Cambridge Connectors it is now possible to achieve 6 and 12 Gbits/s Bitrates utilising a **single channel**. Specifically designed for 6G UHD-SDI and 12G UHD-SDI High Speed, High Definition Video Applications this new range of precision 75 ohm connectors is presently offered in Right Angle, Top Entry and Card Edge PCB mounted sockets; a Belden 1694A cable terminated BNC plug style is also available.

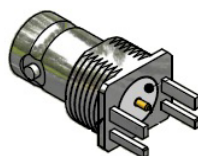
- Bitrates of 12 Gbits/s
- Only one connection required for each 12GHz channel
- Right Angle, End Launch and Top Entry PCB Mounting Sockets
- Cable Ended BNC Plug for Belden 1694A

12 GHz BNC Connectors



C-SX-144

Right Angle PCB Mount



C-SX-141

Edge Card Mount



C-SX-152

Top Entry PCB Mount



XBT-1068-BGxx
XBT-1069-NGxx

Cable Ended Plug

12 GHz Micro BNC



C-SX-142

Right Angle PCB Mount



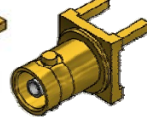
C-SX-147

Edge Card Mount



C-SX-153

3 Pin Top Entry PCB Mount Short / Long Body



C-SX-140



XPT-D001-NGxx

Cable Ended Plug

Specification BNC Sockets

Electrical

Impedance 75 Ohm
 Frequency Range 0 – 12.0 GHz
 Working Voltage 500 V_{rms} (250 V_{rms} Edge Card Mount)
 Dielectric
 Withstanding Voltage 1500 V_{rms} (750 V_{rms} Edge Card Mount)

	R/A	E/Launch	Top Entry	
Reflection Factor (VSWR)	1.10	1.12	1.04	(Max) DC - 6.0GHz
	1.14	1.12	1.11	(Max) 6.0 -12.0GHz
Contact Resistance	1.5	4.0	1.5	m ohm (Centre)
	1.0	2.5	1.0	m ohm (Outer)
Insulation Resistance	>5000	>1000	>5000	Meg Ohm

Materials

Centre Pin Phos Bronze / 10µ " Au
 Metal Parts Brass /Ni (R/A Die Cast Zinc / Ni)
 Insulators PTFE
 Temp Range -65 to+85°C
 Mating Cycles 250 (200 Edge Card Mount)

Specification Micro BNC Sockets

Electrical

75 Ohm
 0 – 12.0 GHz
 170 V_{rms}

500 V_{rms}

	R/A	E/Launch	Top Entry	
Reflection Factor (VSWR)	1.08	1.05	1.04	(Max) DC - 6.0GHz
	1.14	1.09	1.08	(Max) 6.0 -12.0GHz
Contact Resistance	5.0	5.0	5.0	m ohm (Centre)
	2.5	2.5	2.5	m ohm (Outer)
Insulation Resistance	>1000	>1000	>1000	Meg Ohm

Materials

Centre Pin Be/Cu / 10µ " Au
 Metal Parts Brass /Au
 Insulators PTFE
 Temp Range -65 to+85°C
 Mating Cycles 500



PCB Design & Signal Integrity Analysis

To ensure that the high performance of its connector range is maintained throughout the system, Cambridge Connectors is partnered with **Advanced Layout Solutions (ALS)**, one of the largest printed circuit board design bureaux in the UK. ALS is able to take on the most challenging projects whilst still meeting tight deadlines and is the only PCB design bureau in the UK that verifies its designs using in-house signal integrity analysis.

For more information - www.alspcb.com ; info@alspcb.com



12GHz BNC Coaxial Connectors for High Speed, High Definition Video Applications Top Entry PCB Mounting

Features

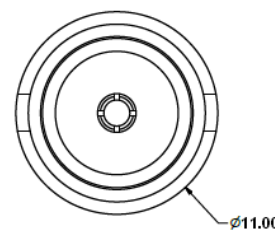
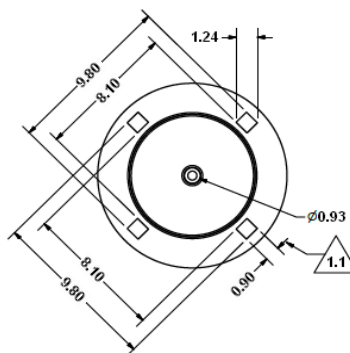
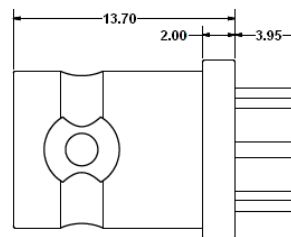
- Precision 12GHz 75 Ohm BNC Connector
- Optimised for 4K/Quad HD and Ultra HD Broadcast Applications
- One single connection for each 12 GHz Channel
- Precision 75 ohm BNC patch leads also available



C-SX-152

General Description

Until now, to communicate at the Bitrates associated with Ultra High Definition Television (referred to variously as “Ultra HD”, “UHD”, “UHDTV”, “4K UHD”) it has been necessary to employ 2 or even 4 channels. With this new Top Entry PCB mounting BNC connector from Cambridge Connectors it is now possible to achieve 6 and 12 Gbits/s Bitrates utilising a **single channel**. Although matable with standard BNC connectors the peak designed performance is achieved when both halves are Cambridge Connectors 12GHz CoaxVision™ BNC connectors. (See later section for details of compatible plugs)



Specification

Electrical

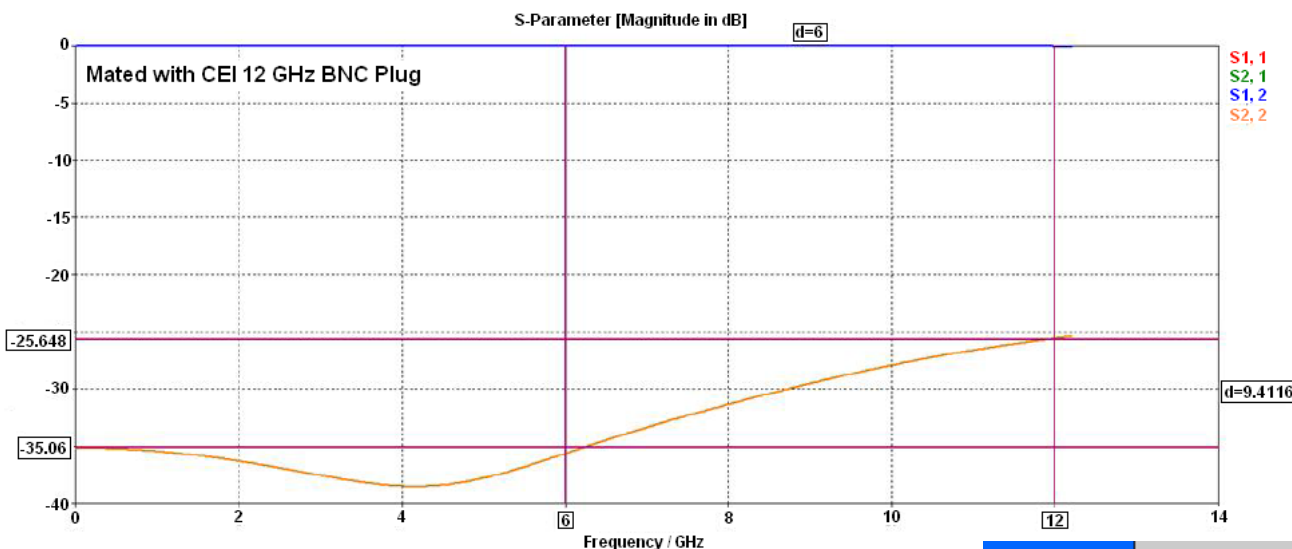
Impedance	75 Ohm
Frequency Range	0 – 12.0 GHz
Working Voltage	500 V _{rms}
Dielectric Withstanding Voltage	1500 V _{rms}
Reflection Factor (VSWR)	1.04 (Max) DC-6.0GHz 1.11 (Max) 6.0GHz-12.0GHz
Contact Resistance	Centre contact 1.5 m ohm Outer contact 1.0 m ohm
Insulation Resistance	> 5000 Meg Ohm

Materials

Centre Pin	Phosphor Bronze/10µ " Au
Insulators	UL94 HB TPX
Metal Parts	Brass / Ni

Environmental

Temperature Range	- 65 to +85° C
Mating Cycles	250



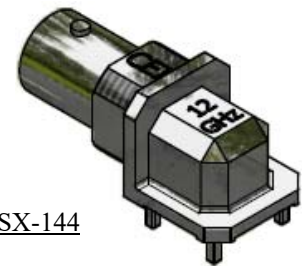
For more details contact our applications engineers on:
Tel: 01223 860041 Fax: 01223 863625 Email: technical@cambridgeconnectors.com
For PCB and Signal Integrity Analysis assistance see page 2



12GHz BNC Coaxial Connectors for High Speed, High Definition Video Applications Right Angle PCB Mounting BNC Socket

Features

- Precision 12GHz 75 Ohm BNC Connector
- Optimised for 4K/Quad HD and Ultra HD Broadcast Applications
- One single connection for each 12 GHz Channel
- Precision 75 ohm BNC patch leads also available



C-SX-144

General Description

Until now, to communicate at the Bitrates associated with Ultra High Definition Television (referred to variously as “Ultra HD”, “UHD”, “UHDTV”, “4K UHD”) it has been necessary to employ 2 or even 4 channels. With this new Right Angle PCB mounting BNC connector from Cambridge Connectors it is now possible to achieve 6 and 12 Gbits/s Bitrates utilising a **single channel**. Although matable with standard BNC connectors the peak designed performance is achieved when both halves are Cambridge Connectors 12GHz CoaxVision™ BNC connectors. (See later section for details of compatible plugs)

Specification

Electrical

Impedance	75 Ohm
Frequency Range	0 – 12.0 GHz
Working Voltage	500 V _{rms}
Dielectric Withstand- ing Voltage	1500 V _{rms}
Reflection Factor (VSWR)	1.10 ^(Max) DC-6.0 GHz 1.14 ^(Max) 6.0GHz-12.0 GHz
Contact Resistance	Centre contact 1.5 m ohm Outer contact 1.0 m ohm
Insulation Resistance	> 5000 Meg Ohm

Materials

Centre Pin - female	Phosphor Bronze/10µ " Au
Metal Parts	Die Cast Zinc / Ni
Insulators	PTFE

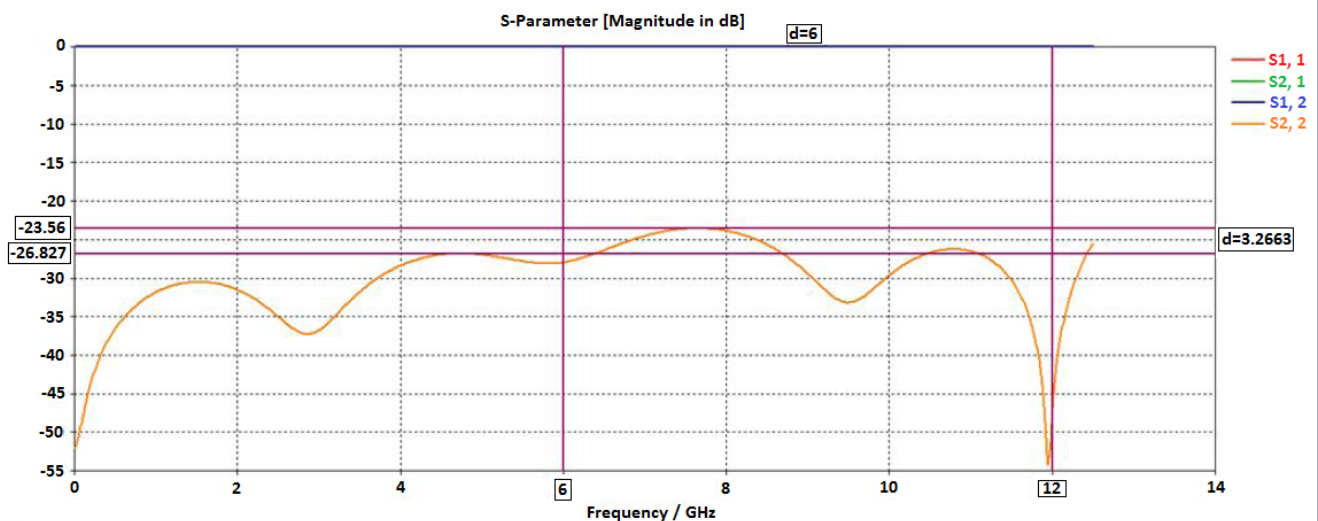
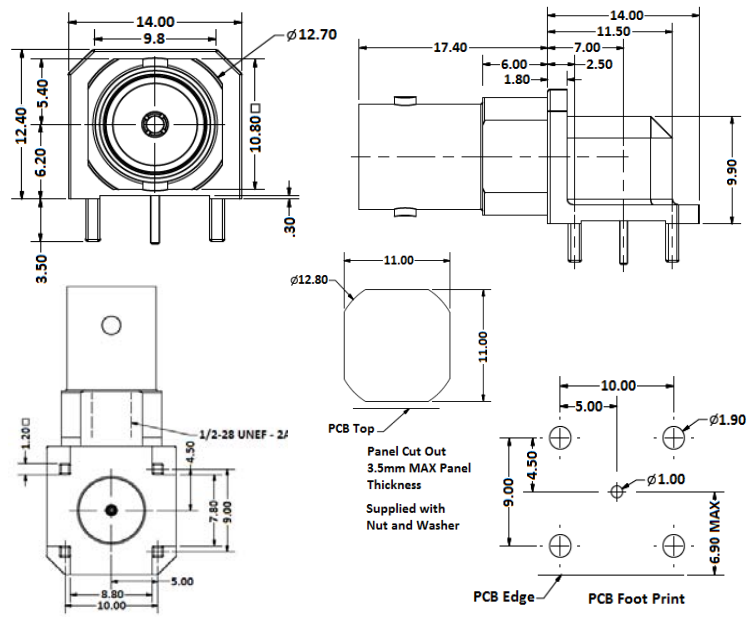
Environmental

Temp Range	-65 to +85°C
Mating Cycles	250

Processing

Hand solder, Wave solder capable at 265°C

Temperatures up to 265°C may be used in Wave solder process. Dwell time 10-12 seconds



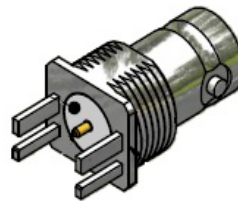
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For PCB and Signal Integrity Analysis assistance see page 2



12GHz BNC Coaxial Connectors for High Speed, High Definition Video Applications End Launch PCB Mounting BNC Socket

Features

- Precision 12GHz 75 Ohm BNC Connector
- Optimised for 4K/Quad HD and Ultra HD Broadcast Applications
- One single connection for each 12 GHz Channel
- Precision 75 ohm BNC patch leads also available



C-SX-141 (1.6mm PCB)*
C-SX-139 (1.9mm PCB)*
*Other PCB sizes are available

General Description

Until now, to communicate at the Bitrates associated with Ultra High Definition Television (referred to variously as “Ultra HD”, “UHD”, “UHDTV”, “4K UHD”) it has been necessary to employ 2 or even 4 channels. With this new Edge Launch PCB mounting BNC connector from Cambridge Connectors it is now possible to achieve 6 and 12 Gbits/s Bitrates utilising a **single channel**. Although mate-able with standard BNC connectors the peak designed performance is achieved when both halves are Cambridge Connectors 12GHz CoaxVision™ BNC connectors.

Specification Electrical

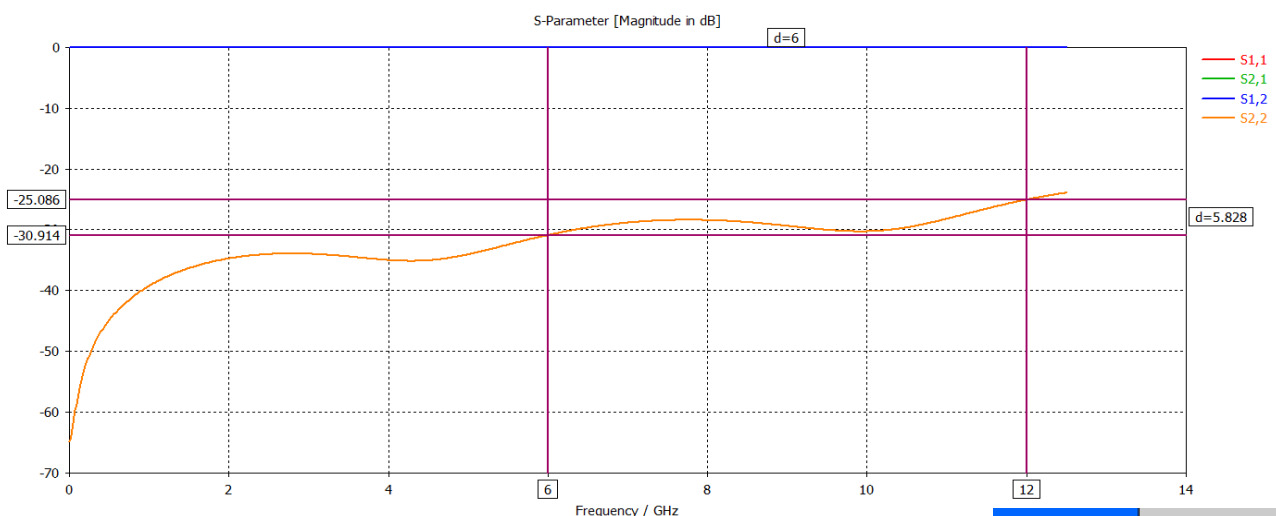
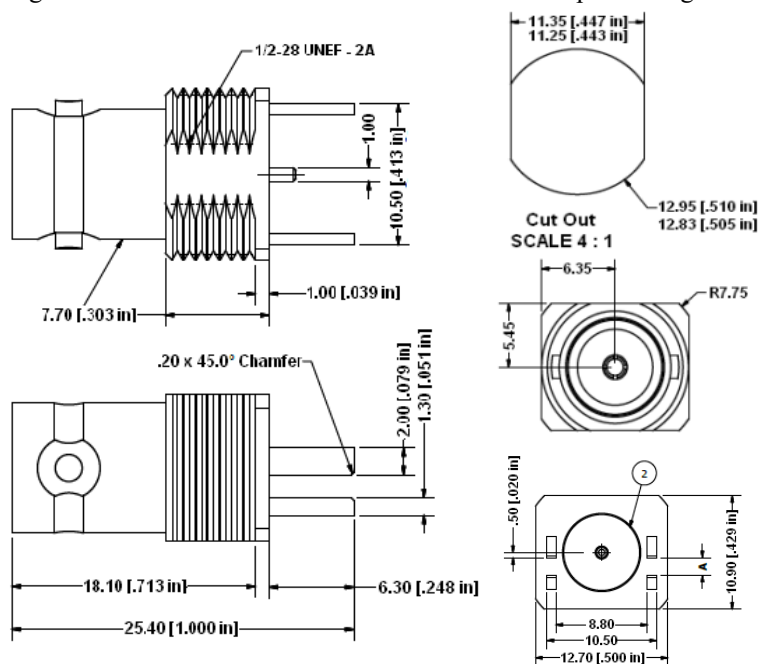
Impedance	75 Ohm
Frequency Range	0 – 12.0 GHz
Working Voltage	250 V _{rms}
Dielectric Withstanding Voltage	750 V _{rms}
Reflection Factor (V _{SWR})	1.12 ^(Max) DC-12 GHz
Contact Resistance	Centre contact 4.0m ohm Outer contact 2.5 m ohm
Insulation Resistance	> 5000 Meg Ohm

Materials

Centre Pin - female	Phos / Bronze / 10µ " Au
Metal Parts	Brass / Ni /
Insulators	PTFE

Environmental

Temp Range	-65 to +85°C
Mating Cycles	250



For more details contact our applications engineers on:
Tel: 01223 860041 Fax: 01223 863625 Email: technical@cambridgeconnectors.com
For PCB and Signal Integrity Analysis assistance see page 2



12GHz Coaxial BNC Plug for Belden 1694A Professional Version

Features

- Precision 12GHz 75 Ohm BNC Connector
- Optimised for 4K/ UHD Broadcast Applications
- One single connection for each 12 GHz Channel
- Cable styles include Belden 4794R and 1694A
- Compatible with Cambridge Connectors 12GHz BNC Sockets



XBT-1068-BGAS (for Belden 1694A)

General Description

Until now, to communicate at the Bitrates associated with Ultra High Definition Television (“4K UHD”) it has been necessary to employ 2 or even 4 channels. With this new range of BNC connector from Cambridge Connectors it is now possible to achieve 6 and 12 Gbits/s Bitrates utilising a single channel. Peak designed performance is achieved using this 12GHz CoaxVision™ BNC plug .

Specification -

Electrical

Nominal Impedance	75 Ohm
Frequency Range	0 - 12.0 GHz
Working Voltage	500Vrms
Dielectric Withstanding Voltage	1500Vrms
Reflection Factor (VSWR)	

DC - 12.0GHz 1.25 (Max)

Contact Resistance

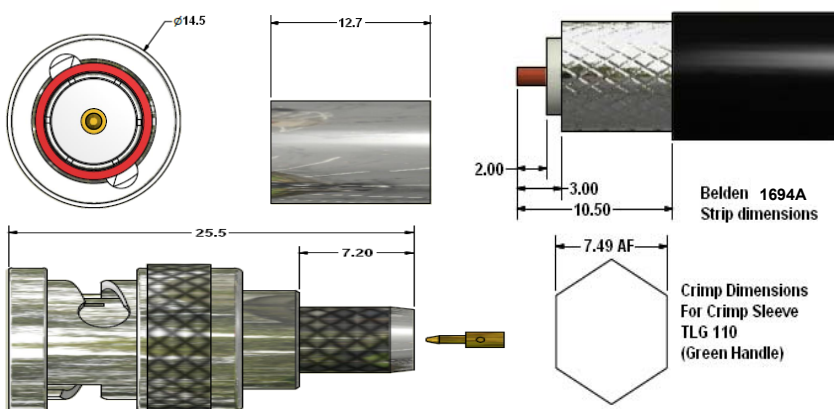
Centre Contact	1.5 m ohm
Outer Contact	1.0 m ohm
Insulation Resistance	> 5 G ohm

Materials

Centre Pin	BeCu / 10u” Au
Body finish	Standard - Brass/Ni
Insulators	PTFE

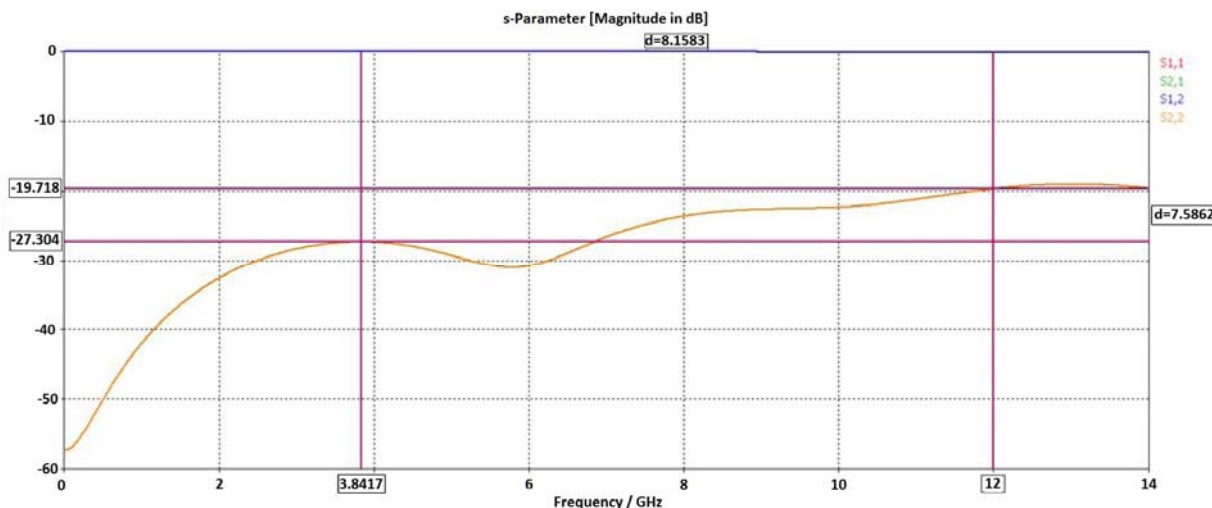
Environmental

Temperature Range	- 65 to +85° C
Mating Cycles	250



Belden 1694A version illustrated - other cable versions are available

Return loss graph of 12 GHz BNC plug P/N XBT-1068-BGAS for use with Belden B1694A cable mated to 12GHz end launch BNC socket P/N C-SX-141



For more details contact our applications engineers on:
 Tel: 01223 860041 Fax: 01223 863625 Email: technical@cambridgeconnectors.com
 For PCB and Signal Integrity Analysis assistance see page 2



12GHz Coaxial BNC Plug for Belden 1694A Standard Version

Features

- Precision 12GHz 75 Ohm BNC Connector
- Optimised for 4K/ UHD / Broadcast Applications
- One single connection for each 12 GHz Channel
- Cable styles include Belden B1694A
- Compatible with Cambridge Connectors 12GHz BNC Sockets



XBT-1069-NGAS (for Belden 1694A)

General Description

Until now, to communicate at the Bitrates associated with Ultra High Definition Television (“4K UHD”) it has been necessary to employ 2 or even 4 channels. With this new range of BNC connector from Cambridge Connectors it is now possible to achieve 6 and 12 Gbits/s Bitrates utilising a single channel. Peak designed performance is achieved using this 12GHz CoaxVision™ BNC plug .

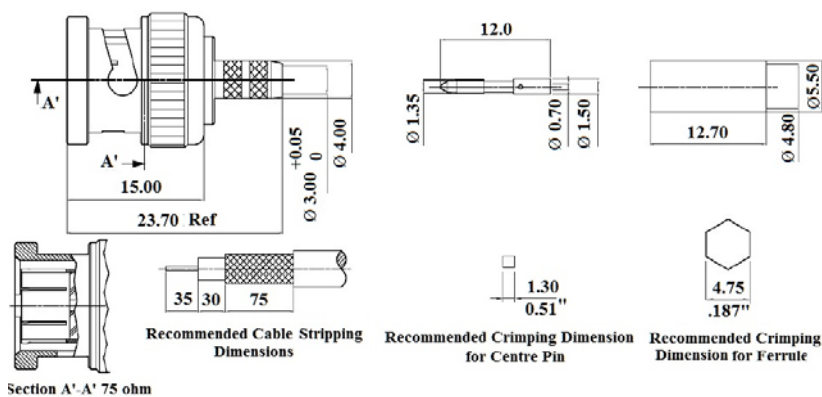
Specification -

Electrical

Nominal Impedance	75 Ohm
Frequency Range	0 - 12.0 GHz
Working Voltage	≥ 500Vrms
Dielectric Withstanding Voltage	≥ 1500Vrms
Reflection Factor (VSWR)	< 1.5 (0-12 GHz)
Contact Resistance	
Centre Contact	1.5 m ohm
Outer Contact	1.0 m ohm
Insulation Resistance	> 5 G ohm

Materials

Centre Pin	Brass / 2u" Au
Body finish	Standard - Brass/Ni
Insulators	PTFE

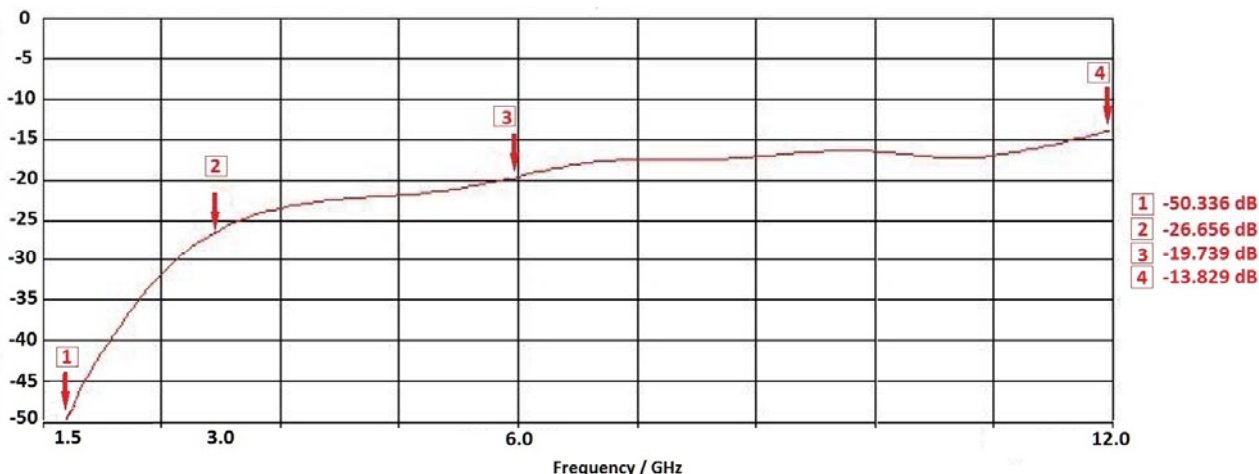


Belden 1694A version illustrated - other cable versions available

Environmental

Temperature Range	- 65 to +165° C
Mating Cycles	50

Return loss graph of 12 GHz BNC plug P/N XBT-1069-NGAS for use with Belden B1694A cable.



For more details contact our applications engineers on:

Tel: 01223 860041 Fax: 01223 863625 Email: technical@cambridgeconnectors.com



12GHz Micro BNC Coaxial Connectors for High Speed, High Definition Video Applications PCB Edge mounting

Features

- Precision 12GHz 75 Ohm Micro BNC Connector
- Optimised for 4K/Quad HD and Ultra HD Broadcast Applications
- One single connection for each 12 GHz Channel



C-SX-147

General Description

Until now, to communicate at the Bitrates associated with Ultra High Definition Television (referred to variously as “Ultra HD”, “UHD”, “UHDTV”, “4K UHD”) it has been necessary to employ 2 or even 4 channels. With this new Edge Launch PCB mounting Micro BNC connector from Cambridge Connectors it is now possible to achieve 6 and 12 Gbits/s Bitrates utilising a **single channel**.

Specification -

Electrical

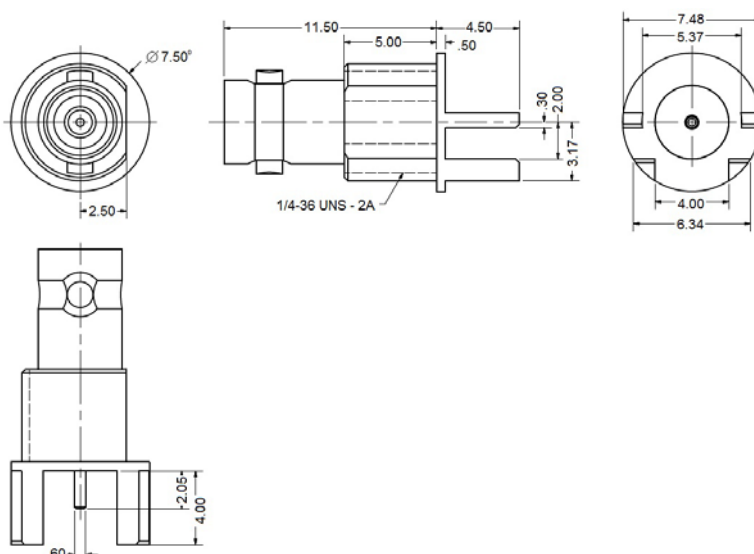
Nominal Impedance	75 Ohm
Frequency Range	0 - 12.0 GHz
Working Voltage	170Vrms
Dielectric Withstanding Voltage	500Vrms

Reflection Factor (VSWR)

<i>(attached to PCB)</i>	
DC - 6.0 GHz	1.05 (Max)
6.0 GHz - 12.0GHz	1.09 (Max)
Contact Resistance	
Centre Contact	5.0 m ohm
Outer Contact	2.5 m Ohm
Insulation Resistance	> 1000 meg ohm

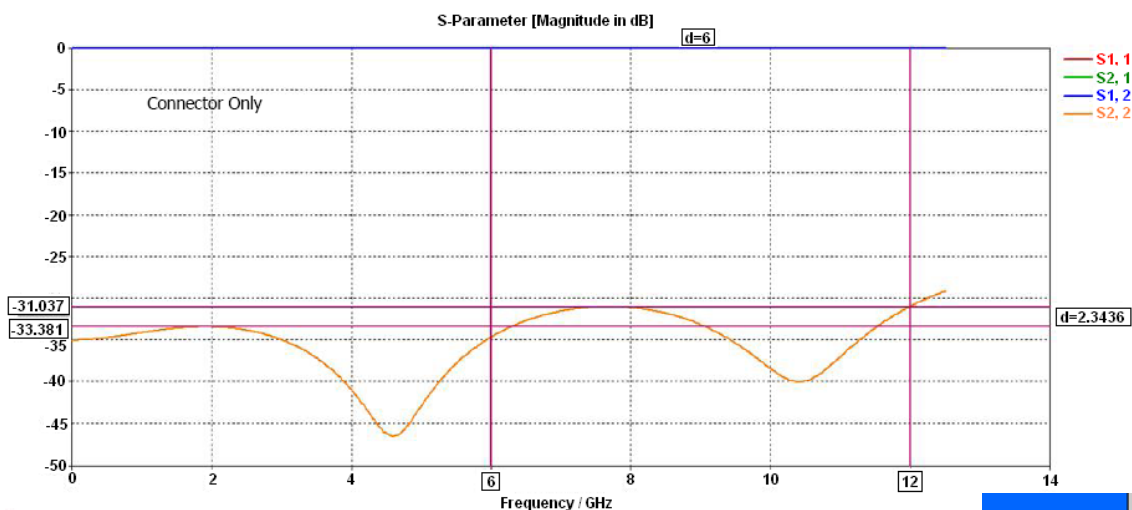
Materials

Centre Pin	BeCu / 10u" Au
Body finish	Brass/Au
Insulators	PTFE



Environmental

Temperature Range	- 65 to +85° C
Mating Cycles	500



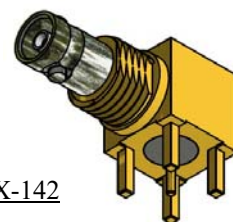
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 For PCB and Signal Integrity Analysis assistance see page 2



12GHz Micro BNC Coaxial Connectors for High Speed, High Definition Video Applications Right Angle PCB Bulkhead mounting

Features

- Precision 12GHz 75 Ohm Micro BNC Connector
- Optimised for 4K/Quad HD and Ultra HD Broadcast Applications
- One single connection for each 12 GHz Channel



C-SX-142

General Description

Until now, to communicate at the Bitrates associated with Ultra High Definition Television (referred to variously as “Ultra HD”, “UHD”, “UHDTV”, “4K UHD”) it has been necessary to employ 2 or even 4 channels. With this new Right Angle PCB Bulkhead mounting Micro BNC connector from Cambridge Connectors it is now possible to achieve 6 and 12 Gbits/s Bitrates utilising a **single channel**.

Specification -

Electrical

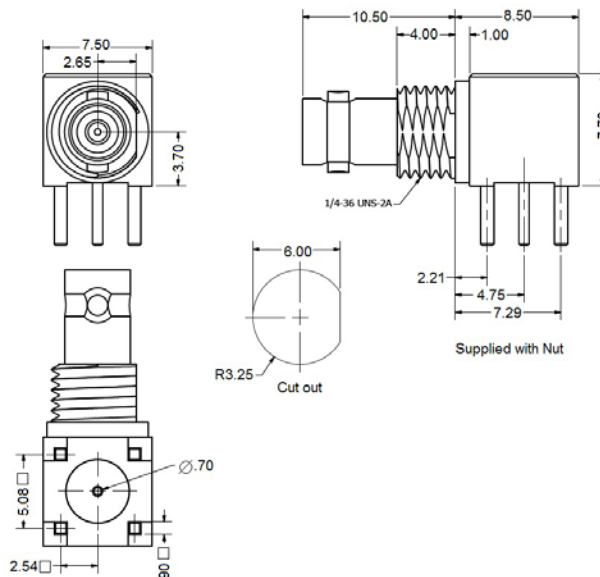
Nominal Impedance	75 Ohm
Frequency Range	0 - 12.0 GHz
Working Voltage	170Vrms
Dielectric Withstanding Voltage	500Vrms

Reflection Factor (VSWR)

(attached to PCB)	
DC - 6.0 GHz	1.08 (Max)
6.0 GHz -12.0 GHz	1.14 (Max)
Contact Resistance	5.0 m ohm
Centre Contact	2.5 m Ohm
Outer Contact	
Insulation Resistance	> 1000 meg ohm

Materials

Centre Pin	BeCu / 10u" Au
Body finish	Brass/Au
Insulators	PTFE



Environmental

Temperature Range	- 65 to +85° C
Mating Cycles	500



For more details contact our applications engineers on:
 Tel: 01223 860041 Fax: 01223 863625 Email: technical@cambridgeconnectors.com
 For PCB and Signal Integrity Analysis assistance see page 2



12GHz Micro BNC Coaxial Connectors for High Speed, High Definition Video Applications Top Entry 3 pin PCB mounting - long body

Features

- Precision 12GHz 75 Ohm Micro BNC Connector
- Optimised for 4K/Quad HD and Ultra HD Broadcast Applications
- One single connection for each 12 GHz Channel



C-SX-153

General Description

Until now, to communicate at the Bitrates associated with Ultra High Definition Television (referred to variously as “Ultra HD”, “UHD”, “UHDTV”, “4K UHD”) it has been necessary to employ 2 or even 4 channels. With this new Top Entry 3 pin PCB mounting Micro BNC connector from Cambridge Connectors it is now possible to achieve 6 and 12 Gbits/s Bitrates utilising a **single channel**.

Specification -

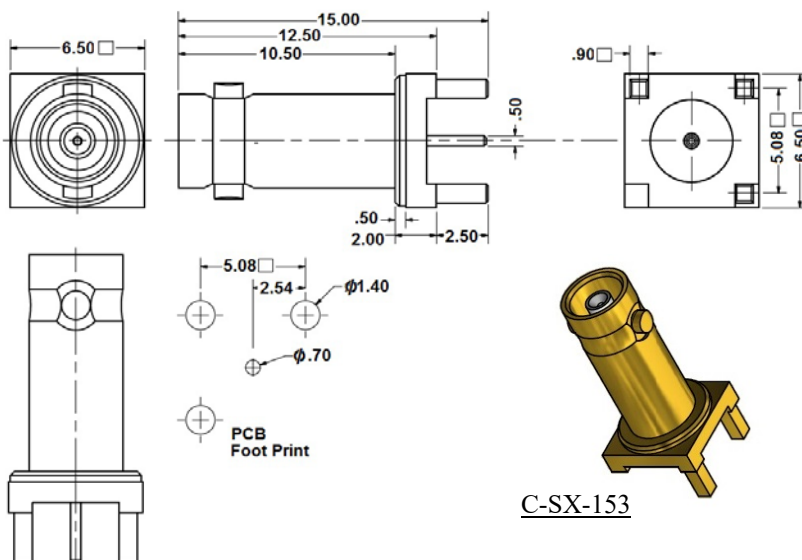
Electrical

Nominal Impedance	75 Ohm
Frequency Range	0 - 12.0 GHz
Working Voltage	170Vrms
Dielectric Withstanding Voltage	500Vrms

Reflection Factor (VSWR)
(attached to PCB)

DC - 6.0 GHz	1.04 (Max)
6.0 GHz - 12.0 GHz	1.08 (Max)

Contact Resistance	5.0 m ohm
Centre Contact	2.5 m Ohm
Outer Contact	
Insulation Resistance	> 1000 meg ohm



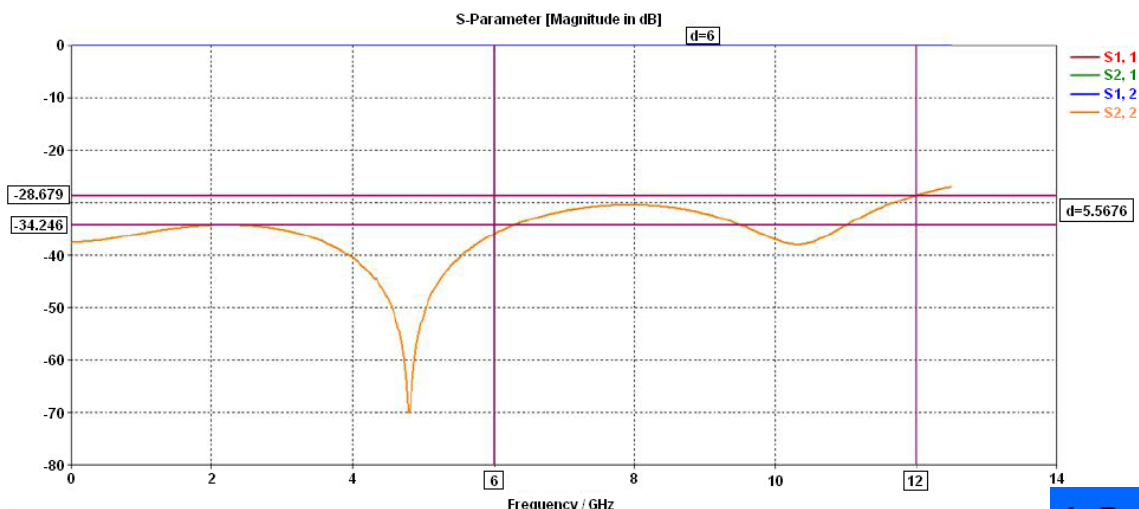
C-SX-153

Materials

Centre Pin	BeCu / 10u" Au
Body finish	Brass/Au
Insulators	PTFE

Environmental

Temperature Range	- 65 to +85° C
Mating Cycles	500



For more details contact our applications engineers on:
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For PCB and Signal Integrity Analysis assistance see page 2



12GHz Micro BNC Coaxial Connectors for High Speed, High Definition Video Applications Top Entry 3 pin PCB mounting - short body

Features

- Precision 12GHz 75 Ohm Micro BNC Connector
- Optimised for 4K/Quad HD and Ultra HD Broadcast Applications
- One single connection for each 12 GHz Channel

C-SX-140



General Description

Until now, to communicate at the Bitrates associated with Ultra High Definition Television (referred to variously as “Ultra HD”, “UHD”, “UHDTV”, “4K UHD”) it has been necessary to employ 2 or even 4 channels. With this new Top Entry 3 pin PCB mounting Micro BNC connector from Cambridge Connectors it is now possible to achieve 6 and 12 Gbits/s Bitrates utilising a **single channel**.

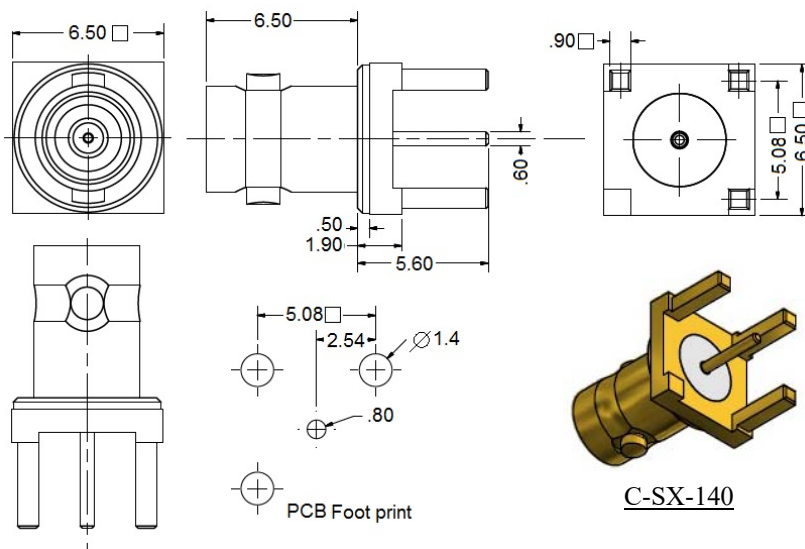
Specification -

Electrical

Nominal Impedance	75 Ohm
Frequency Range	0 - 12.0 GHz
Working Voltage	170Vrms
Dielectric Withstanding Voltage	500Vrms

Reflection Factor (VSWR)
(attached to PCB)

DC - 6.0 GHz	1.04 (Max)
6.0 GHz - 12.0GHz	1.08 (Max)
Contact Resistance	5.0 m ohm
Centre Contact	2.5 m Ohm
Outer Contact	
Insulation Resistance	> 1000 meg ohm



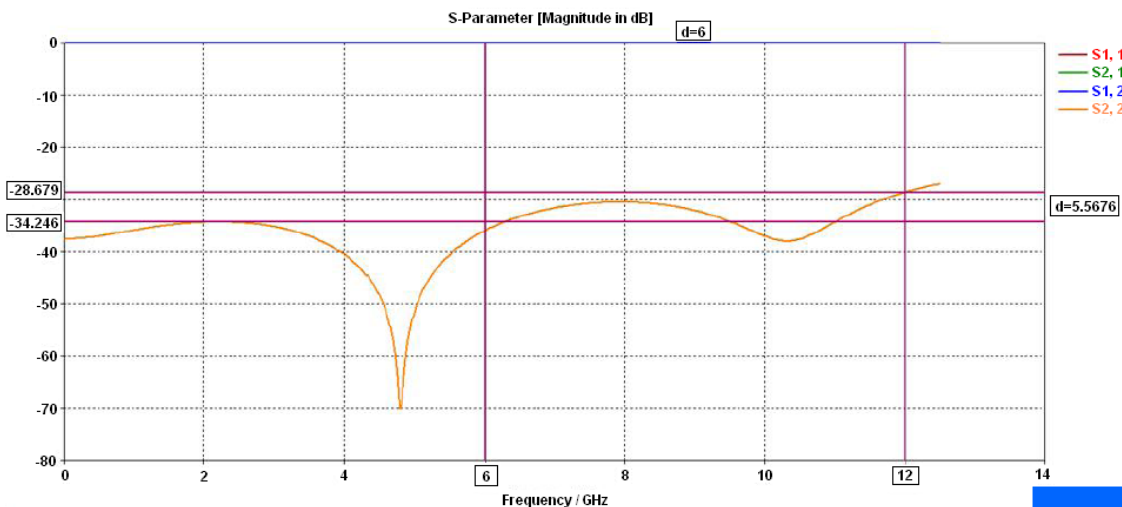
C-SX-140

Materials

Centre Pin	BeCu / 10u" Au
Body finish	Brass/Au
Insulators	PTFE

Environmental

Temperature Range	- 65 to +85° C
Mating Cycles	500



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For PCB and Signal Integrity Analysis assistance see page 2



12GHz Micro BNC Coaxial Connectors for High Speed, High Definition Video Applications
 Micro BNC Cable Terminated Plug

Features

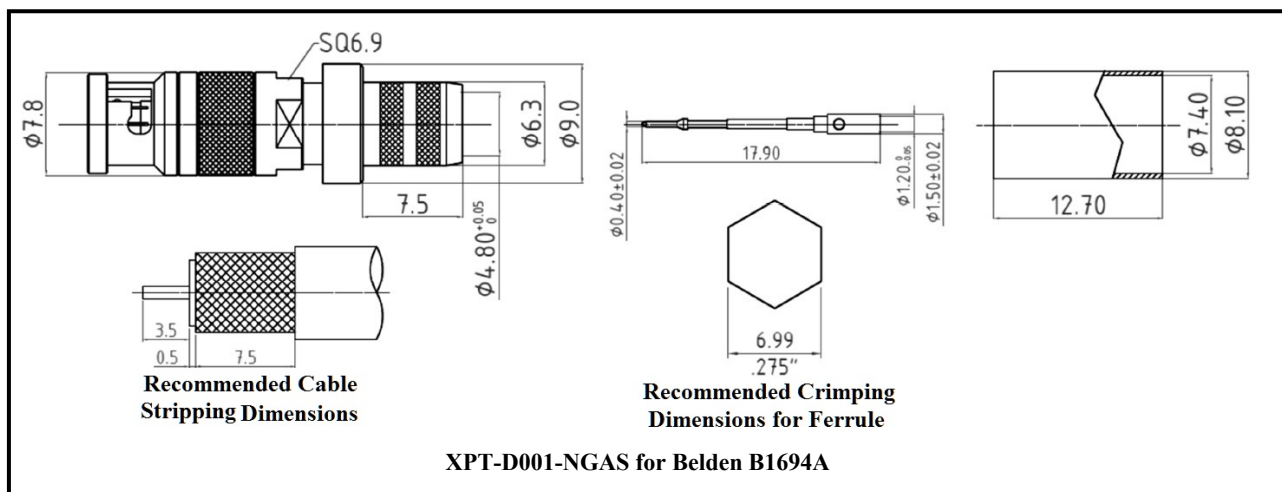
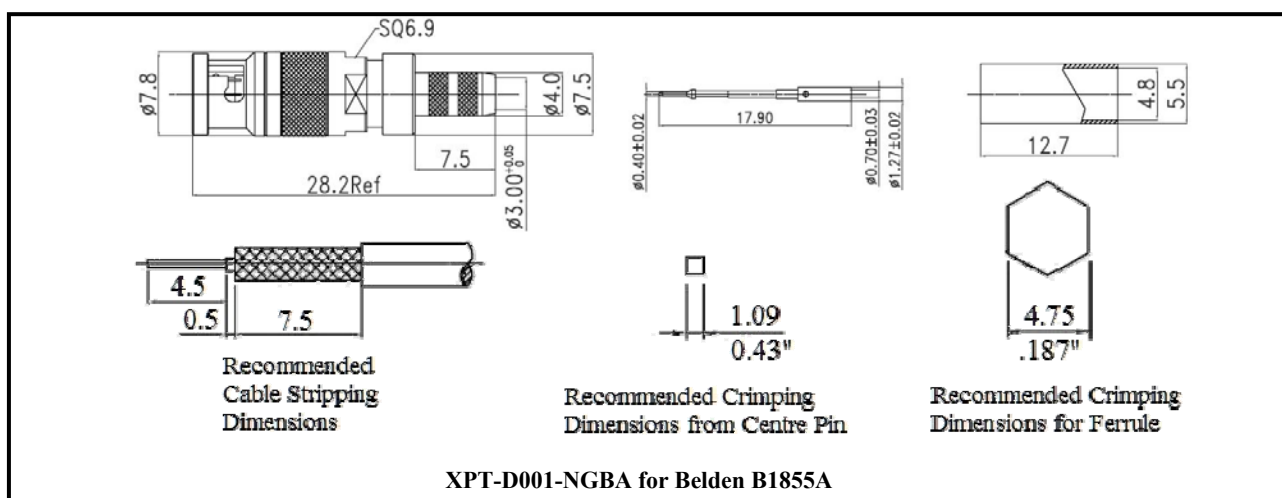
- Precision 12GHz 75 Ohm Micro BNC Cable Terminated Connectors
- Optimised for 4K/Quad HD and Ultra HD Broadcast Applications
- One single connection for each 12 GHz Channel



XPT-D001-NGxx

General Description

Until now, to communicate at the Bitrates associated with Ultra High Definition Television (“4K UHD”) it has been necessary to employ 2 or even 4 channels. With Cambridge Connectors 12GHz Micro BNC connector range it is now possible to achieve 6 and 12 Gbits/s Bitrates utilising a **single channel**. Although compatible with standard Micro BNC connectors, peak designed performance is achieved when PCB mounted styles are interfaced with Cambridge Connectors 12GHz Micro BNC cable plugs designed for use with 12GHz cable (such as Belden 1855a).



Cable assemblies for 12GHz application

Frequently there is a requirement to interface other connector styles within the same application; to assist in these situations System Connections, our manufacturing services division, produces a wide range of 12GHz adapter leads and patch cables. A selection of standard configurations is shown on the following page.



12GHz RF Coaxial Adaptors and Patch Cables for High Definition High Speed Video Broadcast Applications.

System Connections, the specialist cabling division of Cambridge Electronic Industries Ltd., has been manufacturing professional quality coaxial cable assemblies for high speed data transfer for over 25 years. The transition from analogue to HD digital and UHD digital in Broadcasting has placed a premium on the skills, knowledge and the materials employed in the production of interconnection systems. To ensure signal integrity over the 12G-SDI transmission path it is **essential** for interconnection systems to be constructed with 12G-SDI compliant components. System Connections, in partnership with Cambridge Connectors, and using high quality cables from world leading branded manufacturers has created this new range of 12 GHz RF Coaxial Cabling Systems to meet the requirements of 12G-SDI standards. The range includes Cable Assemblies, Coaxial Cable Adaptors and Patch Leads. Used for connecting, interfacing and patching equipments to high speed 12G-SDI networks, they meet the needs of the Broadcast, HDTV and other High Speed, High Definition Vision Applications. .

Available in many combination of BNC, Micro BNC, Plugs and Jacks, assemblies are made to customer order with no minimum order quantity for special lengths. Cable can also be further customised by colour coding, bespoke labelling and special marking to suit custom applications.

- **Optimised for 12G-SDI Broadcast Applications**
- **BNC, Micro BNC combinations available**
- **Straight, Right Angle, Bulkhead Jack and Plug terminations**
- **Cable Types include Belden 1694A, 1855A, 1505A and 1505F**
- **Special Colour Coding, Labelling and Identification Symbols available**

Cable assemblies for 12GHz application

	BNC Plug	Micro BNC Plug
BNC Bulk Head Jack	X	X
BNC Cable Jack	X	X
BNC Plug	X	X
Micro BNC Plug	X	X

The combinations below are available: -



Description	Part Number Belden 1855A	Part Number Belden 1694A	Part Number Belden 1505A	Part Number Belden 1505F
BNC Plug to BNC Plug	CA-BZPBZP-MO-xxxxx	CA-BZPBZP-RO-xxxxx	CA-BZPBZP-UO-xxxxx	CA-BZPBZP-SO-xxxxx
BNC Plug to Micro BNC Plug	CA-BZPHBP-MO-xxxxx	CA-BZPHBP-RO-xxxxx	CA-BZPHBP-UO-xxxxx	CA-BZPHBP-SO-xxxxx
BNC Plug to BNC B/head Jack	CA-BZPBCB-MO-xxxxx	CA-BZPBCB-RO-xxxxx	CA-BZPBCB-UO-xxxxx	CA-BZPBCB-SO-xxxxx
Micro BNC Plug to Micro BNC Plug	CA-HBPHBP-MO-xxxxx	CA-HBPHBP-RO-xxxxx	CA-HBPHBP-UO-xxxxx	CA-HBPHBP-SO-xxxxx
BNC B/Head Jack to Micro BNC Plug	CA-BCBHBP-MO-xxxxx	CA-BCBHBP-RO-xxxxx	CA-BCBHBP-UO-xxxxx	CA-BCBHBP-SO-xxxxx
BNC Jack to Micro BNC Plug	CA-BCJHBP-MO-xxxxx	CA-BCJHBP-RO-xxxxx	CA-BCJHBP-UO-xxxxx	CA-BCJHBP-SO-xxxxx
BNC Jack to BNC Plug	CA-BCJBPC-MO-xxxxx	CA-BCJBPC-RO-xxxxx	CA-BCJBPC-UO-xxxxx	CA-BCJBPC-SO-xxxxx

(xxxxx=cable length in mm e.g. 00300 = 30 cm)



For further information or technical support contact our authorised representatives: —

Canada

Optimum Components Inc.

Toronto Office
7750 Birchmount Rd
Unit 5
Markham, ON
Canada L3R 0B4
Phone: (905) 477-9393
Email: lynnb@optimumcomponents.com

Montreal Office

3551 boul. Saint-Charles,
Bur. 628, Kirkland, Quebec
Canada H9H 3C4
Phone: (450) 510-0303
Email: desq@optimumcomponents.com

USA

Ewing-Foley

Cupertino Office
10061 Bubba Road
Cupertino, CA 95014
T 408 342-1220 F 408 342-1221
Email: lpettinato@ewingfoley.com
Area: Bay Area, S. California

Sacramento Office

13620 Lincoln Way, Suite 100
Auburn, CA 95603
T 530 885-6591 F 530 885-6594
Email: msmothers@ewingfoley.com
Area: Sacramento, Grass Valley, Auburn,
Reno, Fresno

RA Sales

Georgia Office
PO Box 1112, 3147
Overlook Terrace, Snelville, GA30078
Tel: 770 736 7291 Fax: 770 736 7301
email: rasalesbc@aol.com
Area: Georgia, S. Alabama &
S. Mississippi

N Carolina Office

15 Scenic View Drive,
Weaverville, NC28787-9370
Tel: 828 243 2944 Fax: 828 658 2699
email: rasalesbc@aol.com
Area: N. Carolina & S. Virginia

Australia and New Zealand

Micromax Pty Ltd

Wollongong
5 Orangegroove Ave
Unanderra
N S W 2526 , Australia
T +61 2 42 237600 F +61 2 4271 8091
Email: cfoligni@micromax.com.au

Europe, UK and Scandinavia

L2Tek

1st Floor, The Hub, Fowler Avenue,
Farnborough, Hants.GU14 7JF
Phone: +44 (0)844 736 5912
Phone: +44 (0)1252 761 320
Email: mark@l2tek.co.uk
Email: tim@l2tek.co.uk
Area: UK and Scandinavia

France

C-DIS

Place Lamothe Cadillac
82100 Castelsarrasin
France
Phone: +33(0)6 84 78 44 23
Email: sales@c-dis.com

Germany, Austria & Switzerland

RETRONIC GmbH

Willhoop 1- 3
D-22453 Hamburg
Germany
T: +49 (0) 40 589 744-0
F: +49 (0) 40 589 744-44
Email: sales@retronic.de

Russia

Stream Labs

5A , bldg. 5. Berezovaya alleya
Moscow , 127273, Russia
Tel.: +7 (495) 739-8242
Fax: +7 (495) 739-8242
E-Mail: info@stream-labs.com

Israel

Kaya Instruments Ltd

20a Mesila, Neshet, Israel
POB 25004, Haifa, 3125001, Israel
Tel: +972 722 723 500
E-Mail: info@kayainstruments.com

PR CHINA

Trend-tek (Beijing) Technology Ltd.

Address : D409, Jiahua Plaza ,
3rd Street of Shangdi, High-tech Zone,
Haidian District, Beijing ,China 100085
Tel : +8610-62979297
Email : Support@trendtek.com.cn;

Trend-tek (Shenzhen) Technology Ltd.

Address : C-20B,NEO Plaza ,No.6009,
Shennan Avenue, Futian District,
Shenzhen ,Guangdong, China 518040
Tel : +86755-82771661
Email : Support@trendtek.com.cn

Trend-tek (HongKong) Technology Ltd.

Address : 30F ,TOWER 6, The Long Beach,
No.8 Hoi Fail Road, Tai Kok Tsui
Kowloon, HONG KONG
Tel : +852 2324 2226 ; +852 6647 8822
Email : Support@trendtek.com.cn

Shanghai Office

Address : A5-309, Jiahua Business center ,
No.808 ,Hongqiao Road,
Xuhui District, Shanghai, China 200030
Tel : +8621-64480601
Email : Support@trendtek.com.cn

Chengdu Office

Address : C1203, Xinhemingdu ,No.172 ,
Binjiang East Road, Hejiangting,
Jinjiang District, Chengdu, Sichuan,
China 610021
Tel : +8628-86660690
Email : Support@trendtek.com.cn

Wuhan Office

Address : 2-1605 ,Shangdu Center,
Optical Valley Walk street, Luxiang ,
Hongshan District, Wuhan, Hubei,
China 430074
Tel : +86-(0)13476815008
Email : Support@trendtek.com.cn

Korea

IP Tech

Rm 1606, 16th Fl,
Daeryung Techno Town 15th
224-5 Kwanyang-dong,
Dongan-gu,Anyang-Si, Gyeonggi-do,
KOREA 431-060
Email: davis_lee@daum.net

Japan

Speed Supply Inc.

5730 Sakai, Chikuhoku-Vill
Higashichikum-County
Nagano 399-7711 Japan
Tel: 0081 263 67 1810
Email: ichikawa@speed-supply.net

Cambridge Connectors™

A division of Cambridge Electronic Industries Ltd.
Denny Industrial Centre, Waterbeach, Cambridge, England, CB25 9QR
Tel: +44 (0)1223 860041 Fax: +44 (0)1223 863625
Email: sales@cambridgeconnectors.com



CoaxVision™

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