

12G SDI, 4K

75 ohm Coaxial Connectors

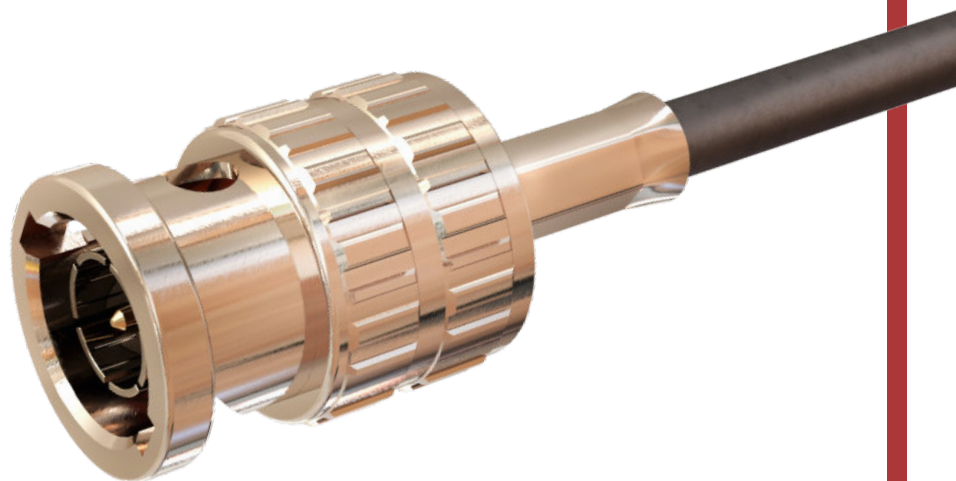


Gigatronix



12G SDI, 4K 75 ohm Coaxial Connectors

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BNC Specifications

Electrical

Impedance	75 ohm
Max Frequency	12GHz
Working Voltage	500 Volts RMS Maximum
Dielectric Withstanding Voltage	1500 Volts RMS Maximum

Environmental

ROHS Compliant	Yes
Temperature Range - PTFE	-65 to + 165 degrees C
Temperature Range - Delrin	-55 to + 85 degrees C

Mechanical

Durability	500 Mating Cycles
Cable Retention	Equal to the breaking strain of cable
Fixing Method	Crimp

Materials

Bodies	Zinc Alloy or Brass, Nickel or Black Chrome Plated
Pins	Brass, Gold Plated
Contacts	Phosphor Bronze or Brass, Gold Plated
Ferrules	Brass, Nickel Plated
Insulators	PTFE or Delrin
End Caps	Brass, Nickel Plated
Gaskets	Silicone Rubber
Springs	Steel, Nickel Plated
Nuts	Brass, Nickel Plated
Washers	Brass or Steel, Nickel Plated

BNC Crimp Plugs



Fig 1
Nickel Plated

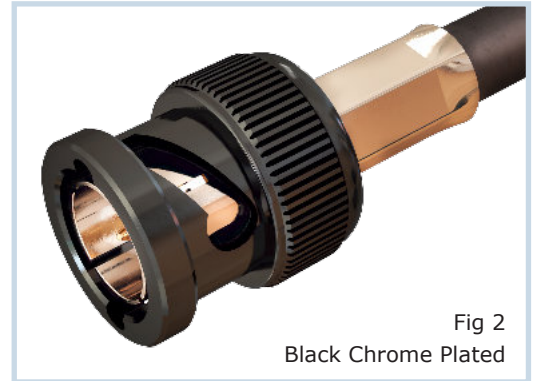
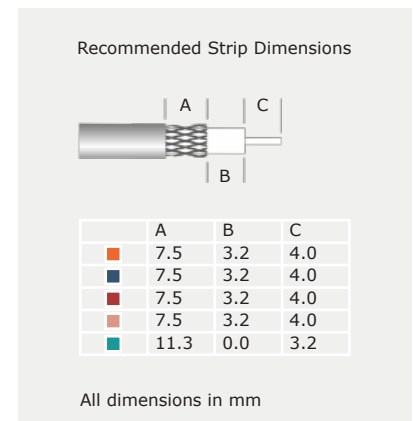
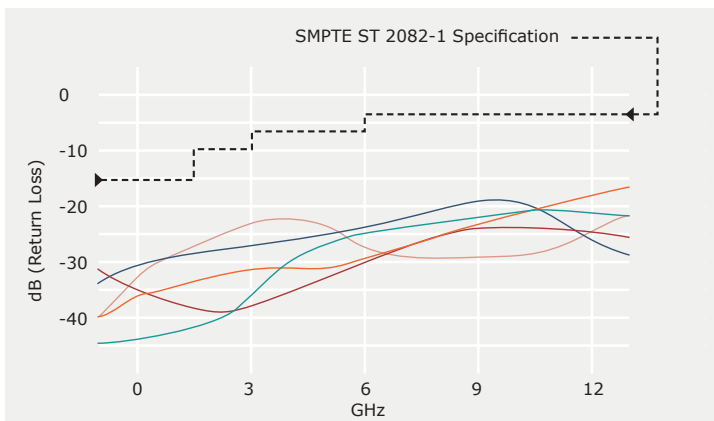


Fig 2
Black Chrome Plated

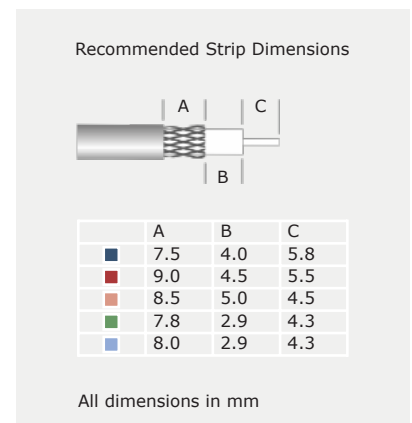
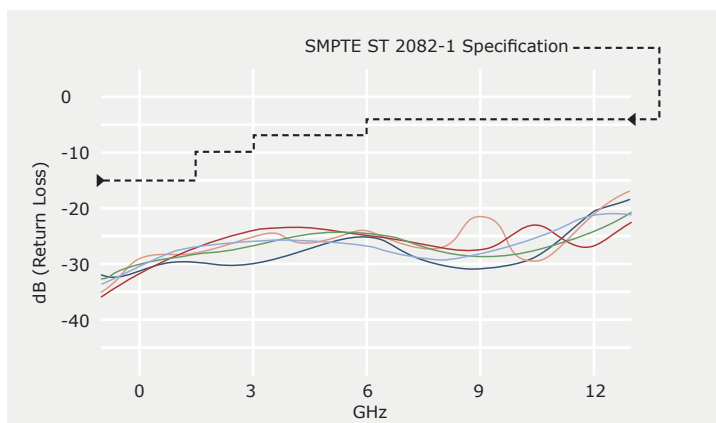
Part Number	Fig	Description	Crimp Hex. (mm)
BN15-0179-C06D-Z	1	Crimp Plug, RG179, Belden RG179DT	4.52 / 1.07 sq.
BN15-0179-C23-Z	2		
BN15-4855-C06D-Z	1	Crimp Plug, Belden 1855A, 4855R	4.52 / 1.07 sq.
BN15-4855-C23-Z	2		
BN15-1855-C06D-Z	1	Crimp Plug, Belden 1855A, 4855R, 1855ENH	5.41 / 1.07 sq.
BN15-1855-C23-Z	2		
BN15-1505-C06D-Z	1	Crimp Plug, Belden 1505A, 4505R	6.48 / 1.07 sq.
BN15-1505-C23-Z	2		
BN15-1694-C06D-Z	1	Crimp Plug, Belden 1694A, 4694R	7.06 / 1.07 sq.
BN15-1694-C23-Z	2		
BN15-1673-C06-Z	1	Crimp Plug, Belden 7731A, 7731ANH	9.75 / 1.69
BN15-1673-C23-Z	2		



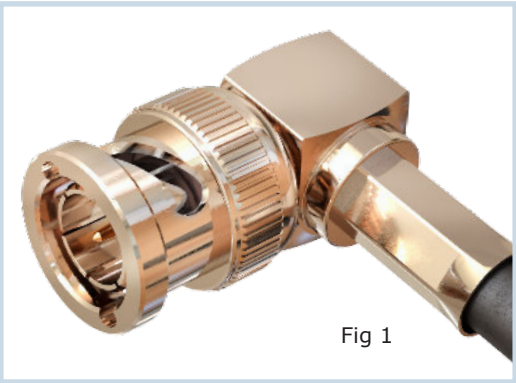
BNC Crimp Plugs with Extended Coupling Nuts



Part Number	Fig	Description	Crimp Hex. (mm)
BN15-4855-C06X-Z	■	1 Crimp Plug, Belden 1855A, 4855R	4.52 / 1.07 sq.
BN15-0628-C06X-Z	■	1 Crimp Plug, Belden 1855A, 4855R, 1855ENH	5.41 / 1.07 sq.
BN15-1505-C06X-Z	■	1 Crimp Plug, Belden 1505A, 4505R, 1505F, 1505ANH	6.48 / 1.07 sq.
BN15-1694-C06X-Z	■	1 Crimp Plug, Belden 1694A, 4694R, 1694ANH	7.06 / 1.07 sq.
BN15-0L25-C06X-Z	■	1 Crimp Plug, Canare L-2.5CHD	5.85 / 1.35 sq.
BN15-0L45-C06X-Z	■	1 Crimp Plug, Canare L-4.5CHD	7.60 / 1.35 sq.

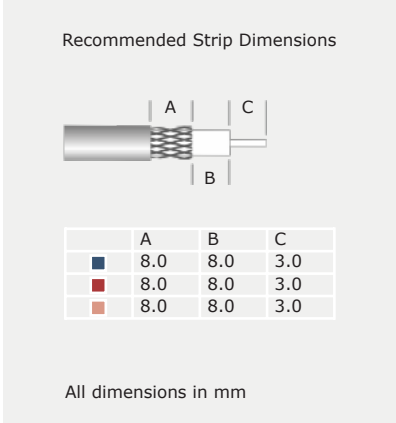
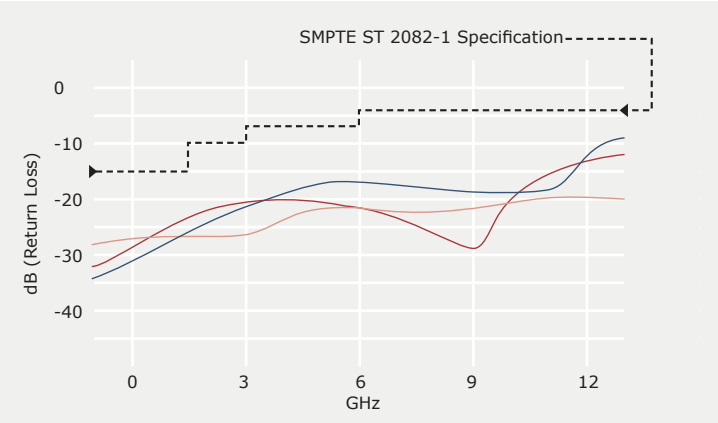


BNC Crimp Right Angle Plugs



Part Number	Fig	Description	Crimp Hex. (mm)
BN17-1855-C06-Z	■ 1	Crimp Right Angle Plug, Belden 1855A, 4855R, 1855ENH	5.41 / Solder
BN17-1505-C06-Z ‡	■ 1	Crimp Right Angle Plug, Belden 1505A, 4505R, 1505F, 1505ANH	6.48 / Solder
BN17-1694-C06-Z	■ 1	Crimp Right Angle Plug, Belden 1694, 4694R, 1694ANH	7.06 / Solder

‡ Preferred stock item

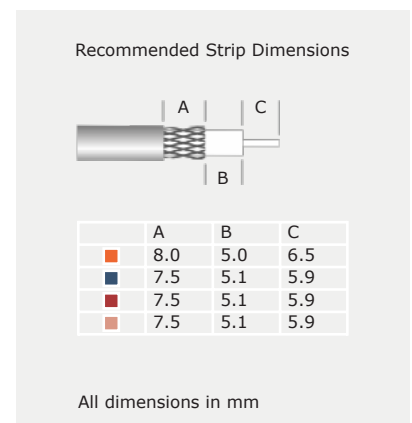
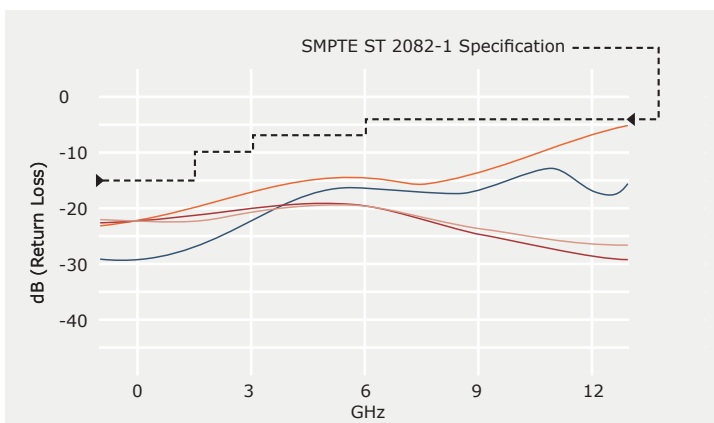


BNC Crimp Jacks



Part Number	Fig	Description	Crimp Hex. (mm)
BN10-0179-C06-Z ‡	1	Crimp Jack, Belden RG179, RG179DT	4.52 / 1.69
BN10-4855-C06-Z ‡	1	Crimp Jack, Belden 1855A, 4855R	4.52 / 1.69
BN10-0628-C06-Z ‡	1	Crimp Jack, Belden 1855A, 4855R, 1855ENH	5.41 / 1.69
BN10-1505-C06-Z	1	Crimp Jack, Belden 1505A, 4505R, 1505F, 1505ANH	6.48 / 1.69
BN10-1694-C06-Z	1	Crimp Jack, Belden 1694A, 4694R, 1694ANH	7.06 / 1.69

‡ Preferred stock item



BNC Crimp Bulkhead Jacks

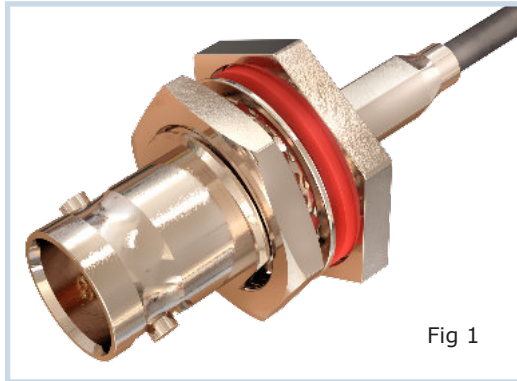


Fig 1



Fig 2

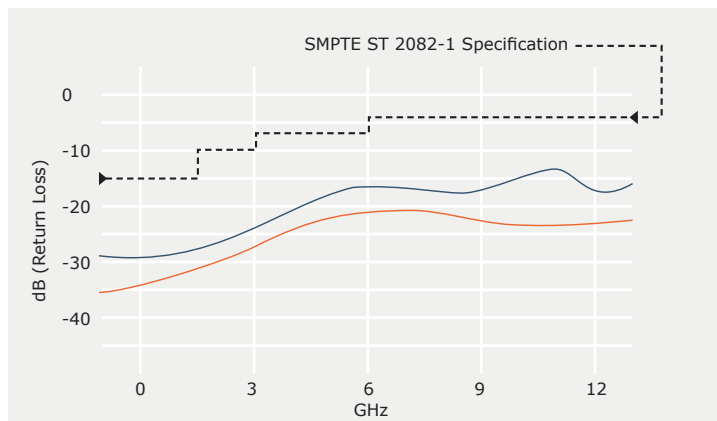
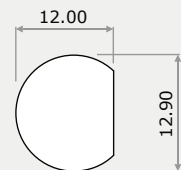
Part Number	Fig	Description	Crimp Hex. (mm)
BN02-0179-C06-Z ‡	1	Crimp Bulkhead Jack, Hex. Flange, RG179, Belden RG179DT	4.52 / 1.69
BN02-017C-C06-Z ‡	-		
BN02-0179-C06-1-Z ‡	+	Crimp Bulkhead Jack, Circular Flange, RG179, Belden RG179DT	3.25 / Solder
BN02-017C-C06-1-Z ‡	2		
BN02-1855-C06-Z	1	Crimp Bulkhead Jack, Hex. Flange, Belden 1855A, 4855R, 1855ENH	5.41 / 1.07 sq.
BN02-185C-C06-Z	-		
BN02-1855-C06-1-Z	+	Crimp Bulkhead Jack, Circular Flange, Belden 1855A, 4855R, 1855ENH	5.41 / 1.07 sq.
BN02-185C-C06-1-Z	2		

‡ Preferred stock item

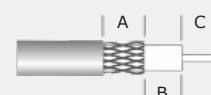
- Image not shown (Circular Lock Nut version)

+ Image not shown (Hex. Lock Nut version)

Panel Cutout



Recommended Strip Dimensions



	A	B	C
■	6.6	4.6	4.8
■	5.0	3.5	2.0
■	6.6	4.6	4.8

All dimensions in mm

BNC Bulkhead Jack to Jack Adaptors



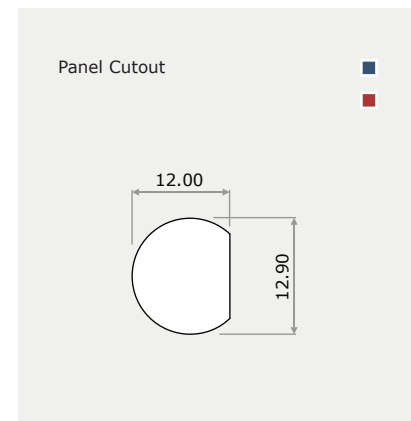
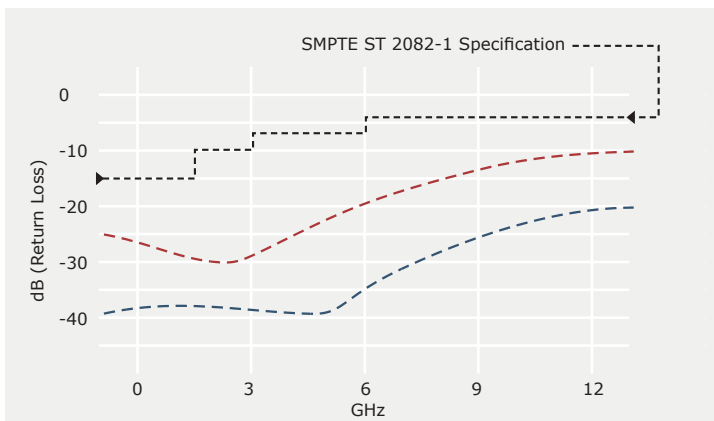
Fig 1



Fig 2

Part Number		Fig	Description
BN02-10-MD06-Z	■	1	BNC Bulkhead Jack to Jack Adaptor, Isolated, Hex. Nut
BN02-10C-MD06-Z	■	-	BNC Bulkhead Jack to Jack Adaptor, Isolated, Circular Nut
BN02-10-A06-Z	■	-	BNC Bulkhead Jack to Jack Adaptor, Non-Isolated, Hex. Nut
BN02-10C-A06-Z	■	2	BNC Bulkhead Jack to Jack Adaptor, Non-Isolated, Circular Nut

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BNC Adaptors and Terminators

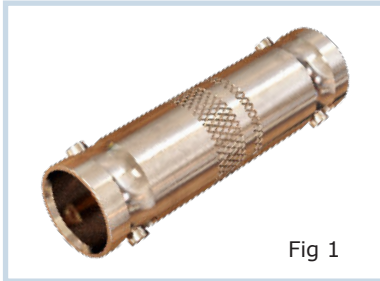


Fig 1

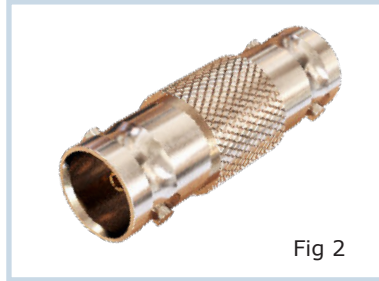


Fig 2

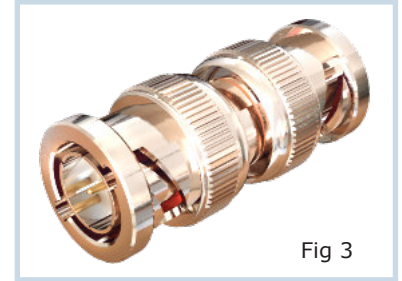


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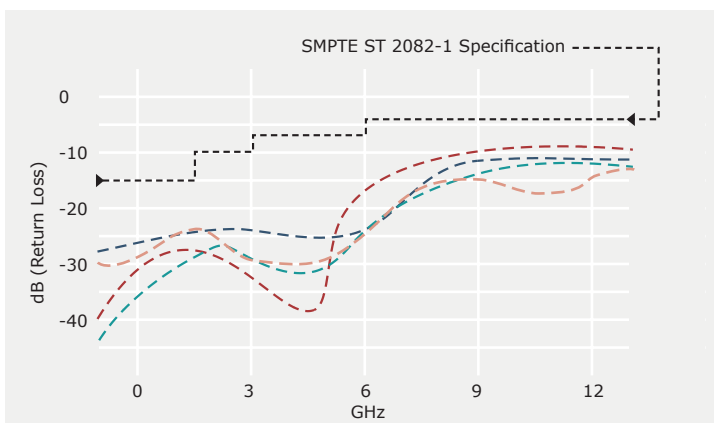


Fig 4

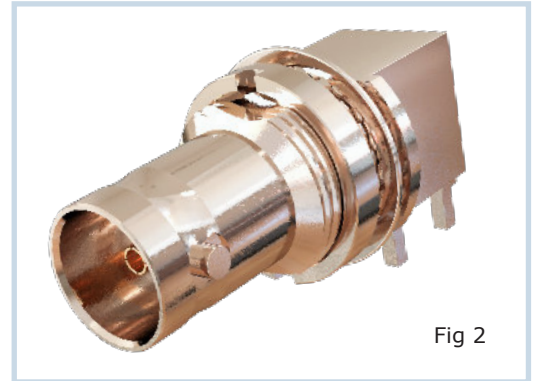
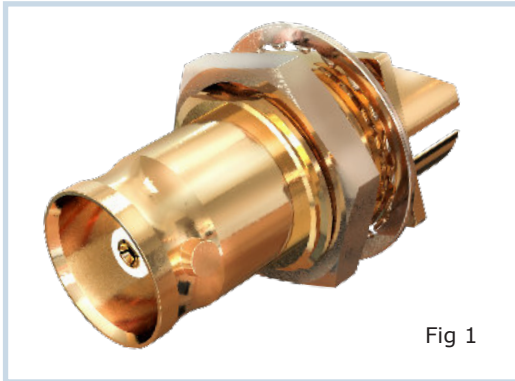


Fig 5

Part Number	Fig	Description
BN10-10-A06-Z	1	BNC Jack to Jack Adaptor, Brass, Nickel Plated
BN10-10-A06D-Z	2	BNC Jack to Jack Adaptor, Zinc Alloy, Nickel Plated
BN15-15-A06-Z	3	BNC Plug to Plug Adaptor, Nickel Plated
BN15-75-A23-Z	4	BNC 75 Ohm Terminator, Black Chrome Plated
BN15-75-A06-Z	5	BNC 75 Ohm Terminator, Nickel Plated

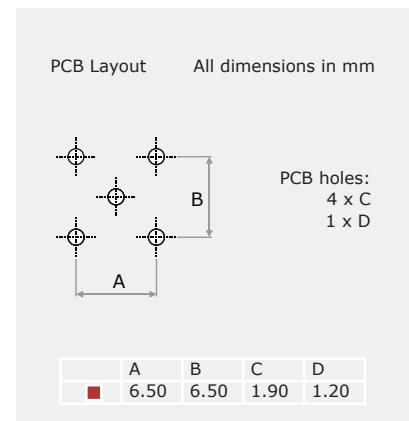
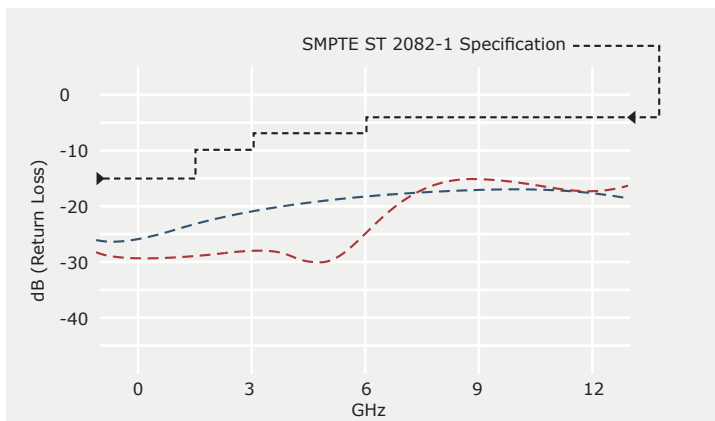
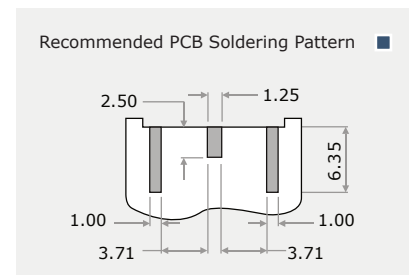
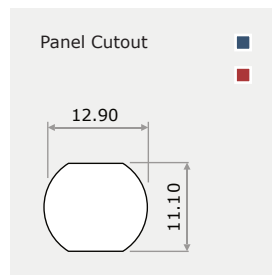


BNC PCB Mount End Launch Jacks and Right Angle Jacks

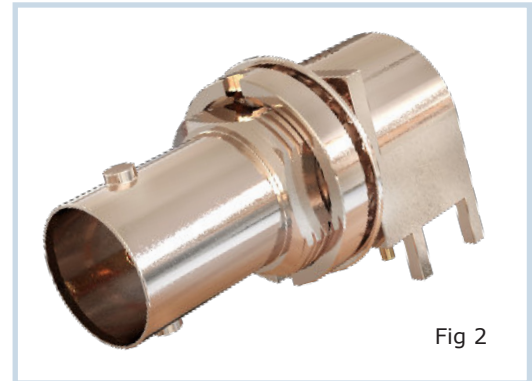
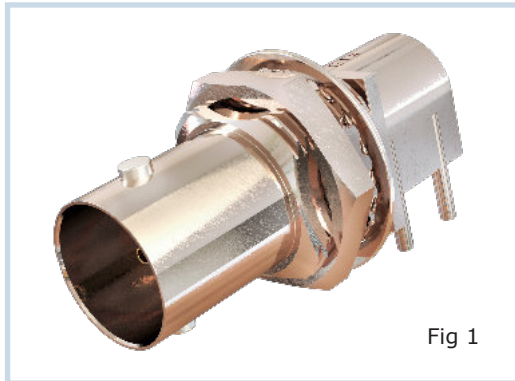


Part Number	Fig	Description
BN02-X800-N01-17	■ 1	BNC End launch Jack, 1.57mm PCB, Gold Plated, Hex. Nut
BN02-X800-N01-Z	■ -	BNC End launch Jack, 1.57mm PCB, Gold Plated, Circular Nut
BN02-X600-N06-Z	■ -	BNC Right Angle PCB Mount Bulkhead Jack, Nickel Plated, Hex. Nut
BN02-X60C-N06-Z	■ 2	BNC Right Angle PCB Mount Bulkhead Jack, Nickel Plated, Circular Nut

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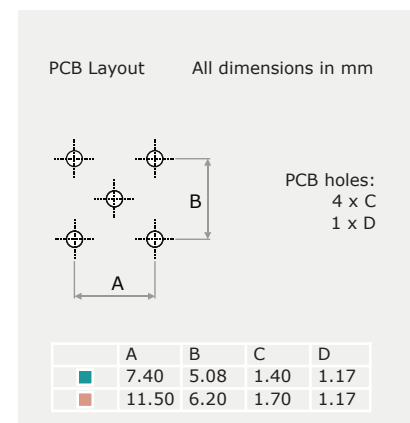
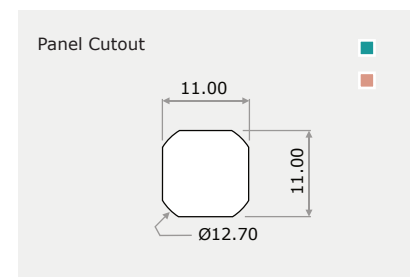
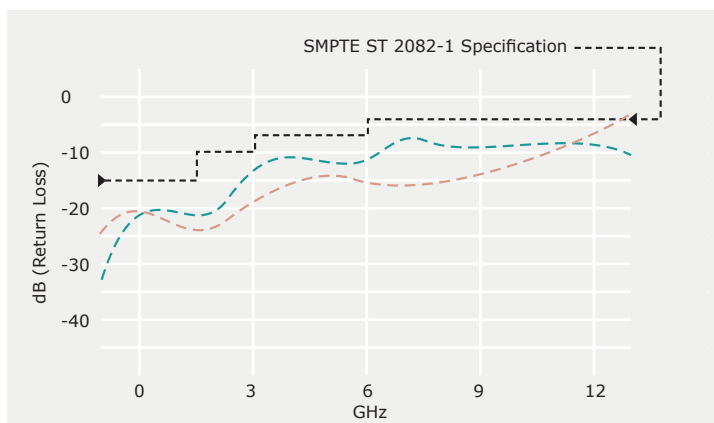


BNC PCB Mount Right Angle Jacks

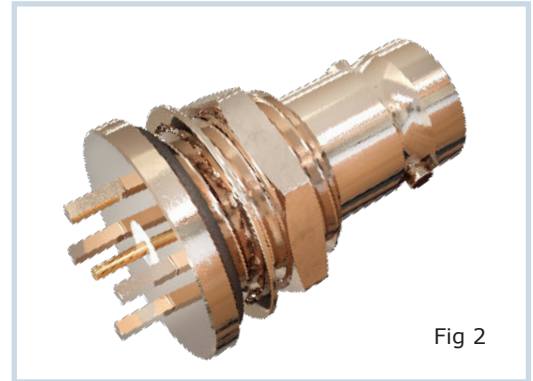
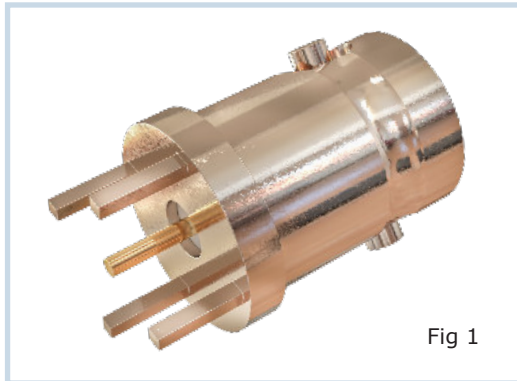


Part Number	Fig	Description
BN02-X640-N06-Z	1	BNC Right Angle PCB Mount Bulkhead Jack, Low Profile, Nickel Plated, Hex. Nut
BN02-X64C-N06-Z	-	BNC Right Angle PCB Mount Bulkhead Jack, Low Profile, Nickel Plated, Circular Nut
BN02-X662-N06-Z	-	BNC Right Angle PCB Mount Bulkhead Jack, PCI Express, Nickel Plated, Hex. Nut
BN02-X66C-N06-Z	2	BNC Right Angle PCB Mount Bulkhead Jack, PCI Express, Nickel Plated, Circular Nut

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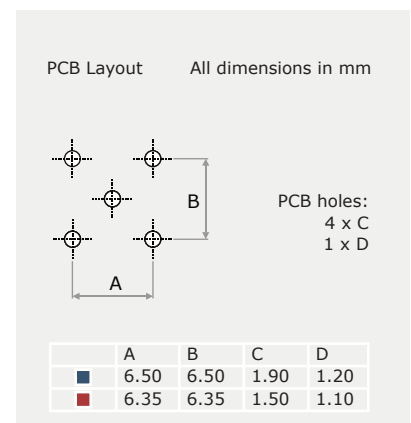
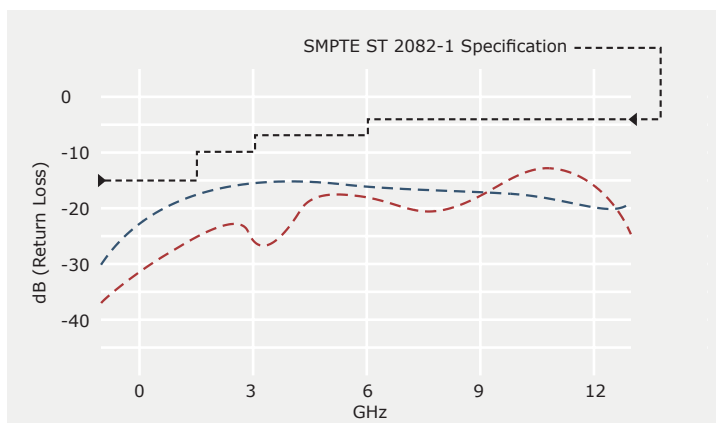
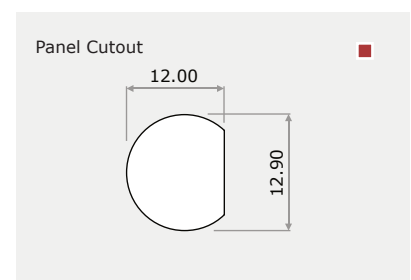


BNC Vertical PCB Jacks



Part Number	Fig	Description
BN10-X150-N06-1-Z	1	BNC Vertical PCB Mount Jack, Nickel Plated
BN02-X150-N06-Z	2	BNC Vertical PCB Mount Bulkhead Jack, IP68 Waterproof, Nickel Plated
BN02-X15C-N06-Z	-	BNC Vertical PCB Mount Bulkhead Jack, IP68 Waterproof, Nickel Plated

- Image not shown (Circular Lock Nut Version)



HD BNC Specifications

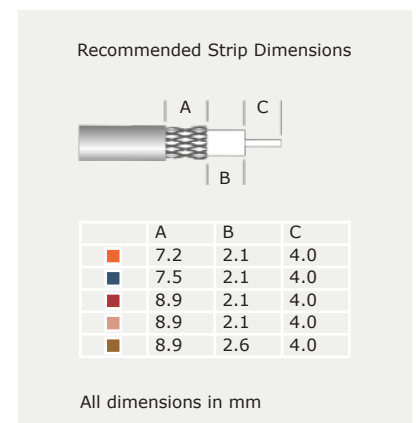
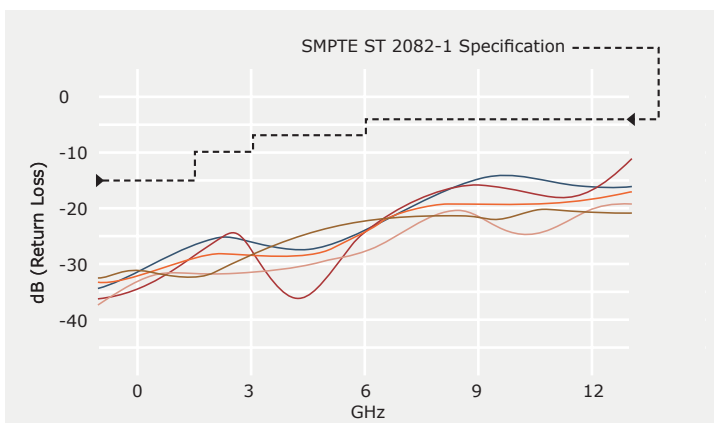
Electrical	
Impedance	75 ohm
Max Frequency	12GHz
Working Voltage	500 Volts RMS Maximum
Dielectric Withstanding Voltage	500 Volts RMS Maximum
Environmental	
ROHS Compliant	Yes
Temperature Range - PTFE	-65 to + 165 degrees C
Mechanical	
Durability	500 mating cycles
Cable Retention	Equal to breaking strain of cable
Fixing Method	Crimp
Materials	
Bodies	Brass, Nickel or Gold Plated
Pins	Beryllium Copper, Gold Plated
Contacts	Beryllium Copper, Gold Plated
Ferrules	Brass, Nickel or Gold Plated
Insulators	PTFE
End Caps	Brass, Nickel Plated
Nuts	Brass, Nickel or Gold Plated

HD BNC Crimp Plugs



Fig 1

Part Number		Fig	Description	Crimp Hex. (mm)
HD15-0179-C06-Z	■	1	Crimp Plug, Belden RG179, RG179DT	3.25 / 1.07 sq.
HD15-4855-C06-Z	■	1	Crimp Plug, Belden 1855A, 4855R	4.52 / 1.07 sq.
HD15-0628-C06-Z	■	1	Crimp Plug, Belden 1855A, 4855R, 1855ENH	5.41 / 1.07 sq.
HD15-1505-C06-Z	■	1	Crimp Plug, Belden 1505A, 4505R	6.48 / 1.07 sq.
HD15-1694-C06-Z	■	1	Crimp Plug, Belden 1694A, 4694R	7.06 / 1.07 sq.
HD15-3300-C06-Z	■	1	Crimp Plug, Canare L-3-3CUHD	5.76 / 1.07 sq.



HD BNC Crimp Right Angle Plugs

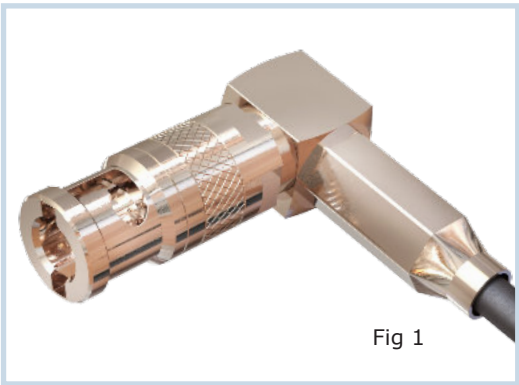
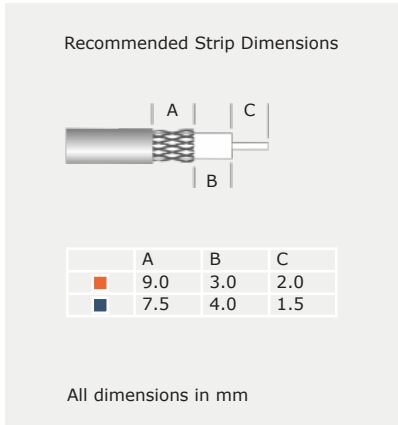
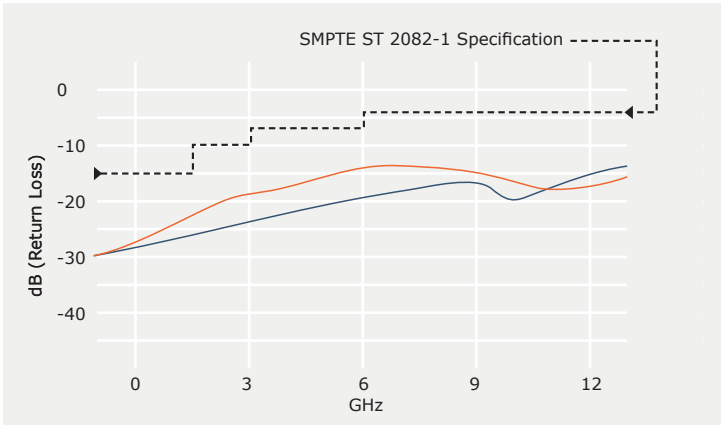


Fig 1



Fig 2

Part Number		Fig	Description	Crimp Hex. (mm)
HD17-0179-C06-1-Z	■	1	Crimp Right Angle Plug, RG179, Belden RG179DT	5.41 / Solder
HD17-0628-C06-Z	■	2	Crimp Right Angle Plug, Belden 1855A, 4855R, 1855ENH	5.41 / Solder



HD BNC Crimp Bulkhead Jacks and Jack to Jack Adaptor



Fig 1

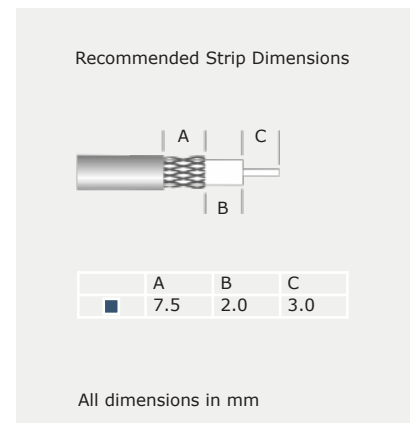
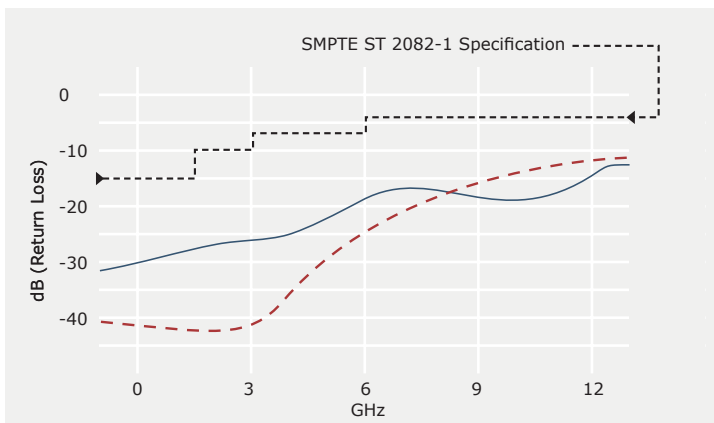
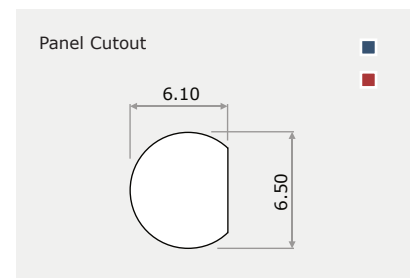


Fig 2

Part Number	Fig	Description	Crimp Hex. (mm)
HD02-0179-C06-Z ‡	■ 1	Crimp Bulkhead Jack, Nickel Plated, RG179, Belden RG179DT	3.25 / 1.07 sq.
HD02-0179-C01-Z	■ -	Crimp Bulkhead Jack, Gold Plated, RG179, Belden RG179DT	3.25 / 1.07 sq.
HD02-10-MD06-Z ‡	■ 2	Isolated Bulkhead Jack to Jack Adaptor	

‡ Preferred stock item

- Image not shown



HD BNC PCB Mount Right Angle Jacks

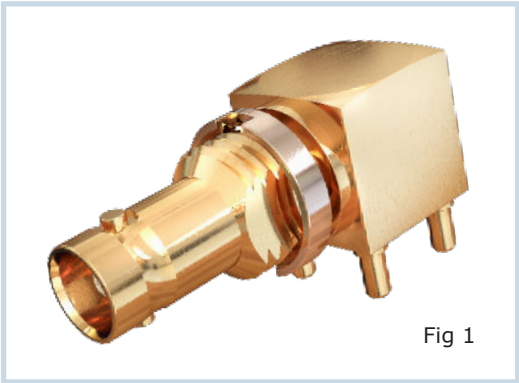


Fig 1

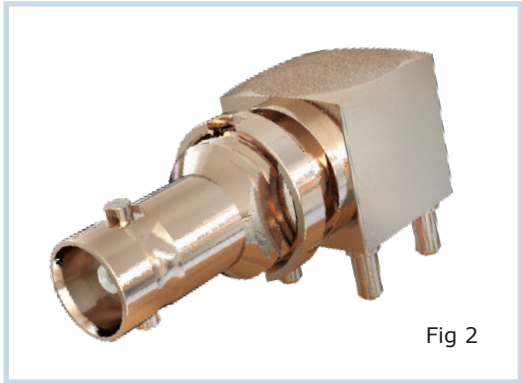
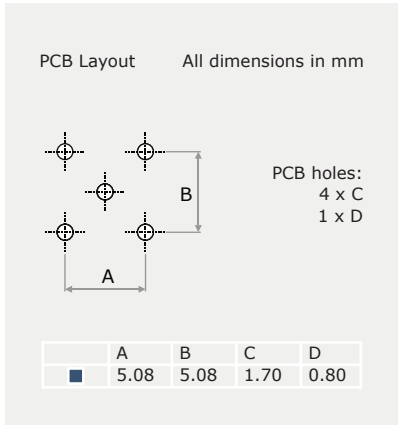
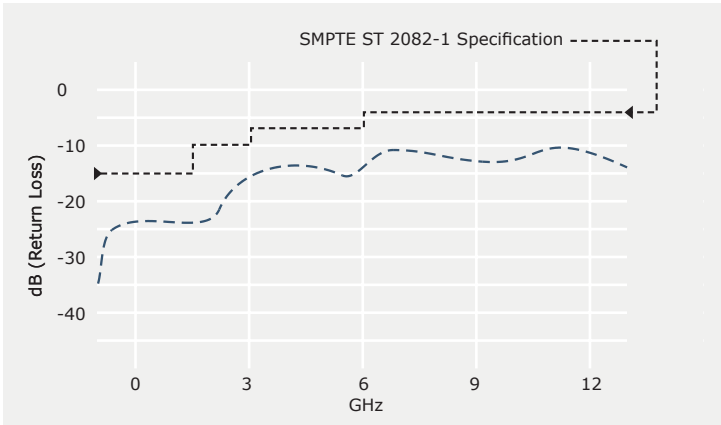
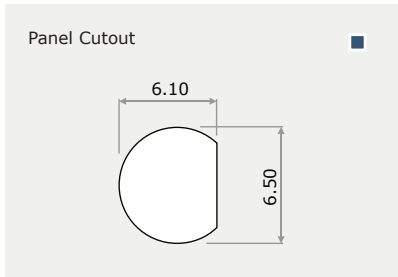


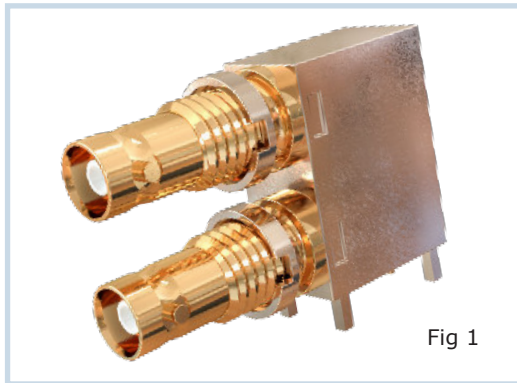
Fig 2

Part Number		Fig	Description
HD02-X600-N01-Z	■	1	HD BNC Right Angle PCB Mount Bulkhead Jack, Gold Plated
HD02-X600-N06-Z ‡	■	2	HD BNC Right Angle PCB Mount Bulkhead Jack, Nickel Plated

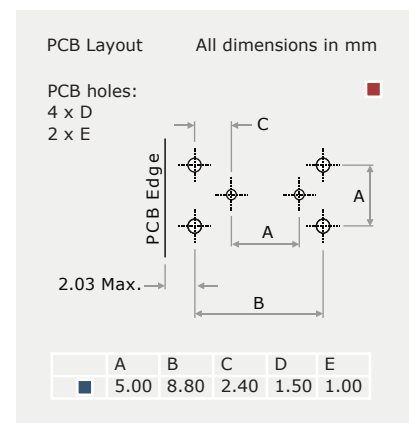
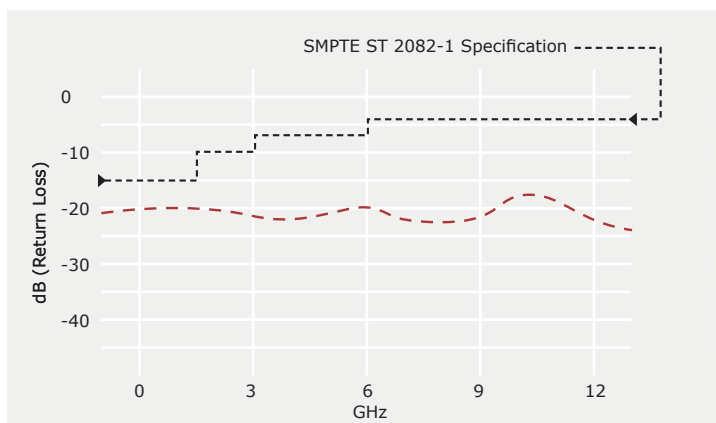
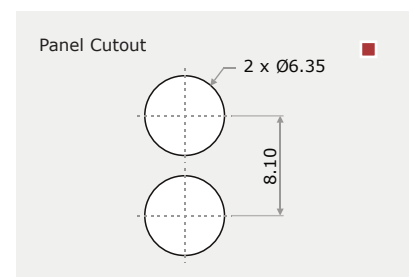
‡ Preferred stock item



HD BNC PCB Mount Right Angle Jacks



Part Number	Fig	Description
HD02-X900-N01-Z	1	HD BNC Right Angle PCB Mount Double Bulkhead Jack



HD BNC End Launch Jacks and Vertical PCB Jacks

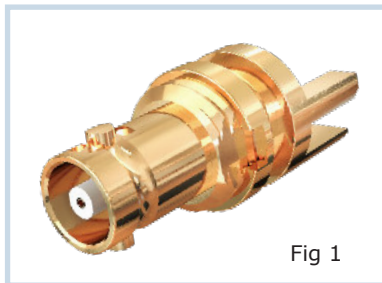


Fig 1

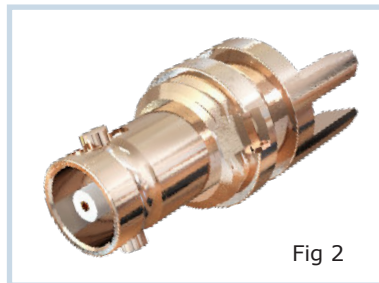


Fig 2

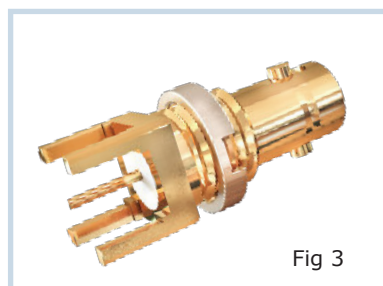


Fig 3

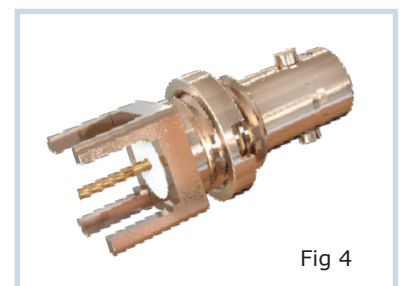
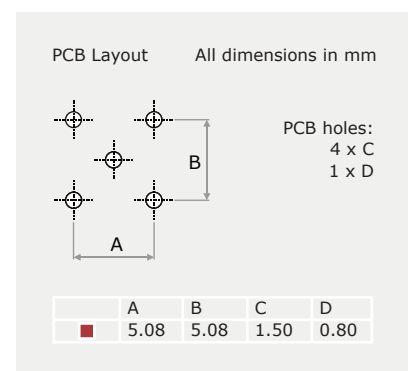
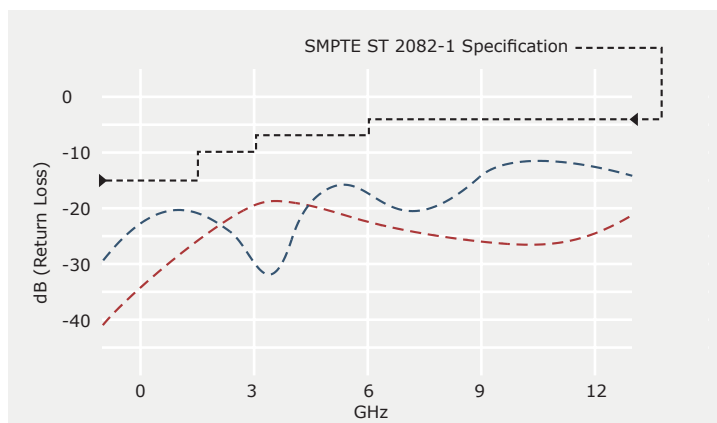
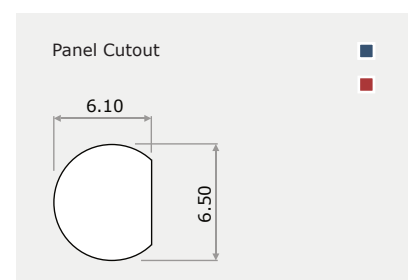


Fig 4

Part Number	Fig	Description
HD02-X800-N01-Z ‡	1	HD BNC End Launch Jack, 1.57mm PCB, Gold Plated, Circular Nut
HD02-X800-N06-Z	2	HD BNC End Launch Jack, 1.57mm PCB, Nickel Plated, Circular Nut
HD02-X150-N01-Z ‡	3	HD BNC Vertical PCB Mount Bulkhead Jack, Gold Plated, Circular Nut
HD02-X150-N06-Z	4	HD BNC Vertical PCB Mount Bulkhead Jack, Nickel Plated, Circular Nut

‡ Preferred stock item



1.0/2.3 Specifications

Electrical	
Impedance	75 ohm
Max Frequency	12GHz
Working Voltage	2500 Volts RMS Maximum
Dielectric Withstanding Voltage	750 Volts RMS Maximum

Environmental	
ROHS Compliant	Yes
Temperature Range - PTFE	-65 to + 165 degrees C

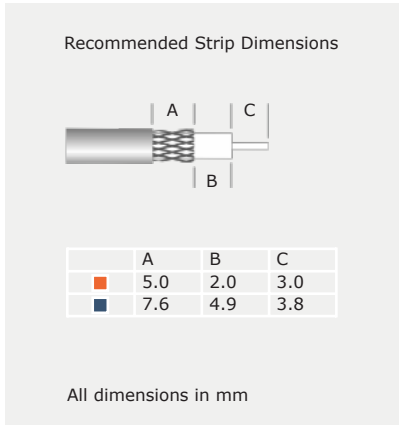
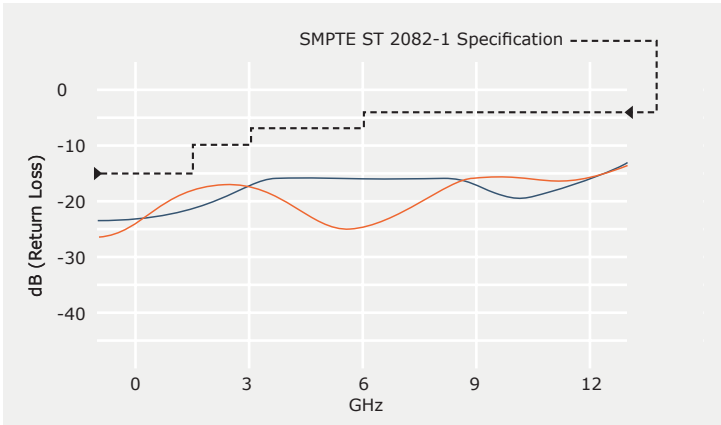
Mechanical	
Durability	500 mating cycles
Cable Retention	Equal to breaking strain of cable
Fixing Method	Crimp

Materials	
Bodies	Brass, Nickel Plated
Pins	Beryllium Copper, Gold Plated
Ferrules	Brass, Nickel Plated

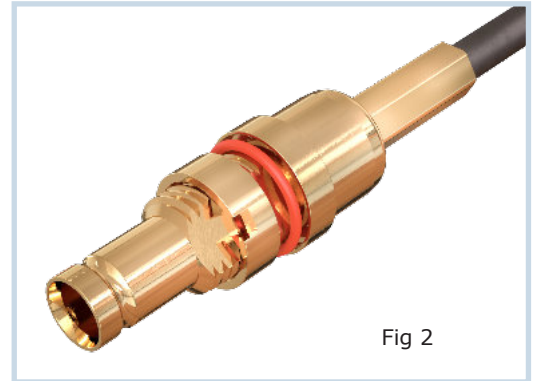
1.0/2.3 DIN Crimp Plugs



Part Number	Fig	Description	Crimp Hex. (mm)
2315-0179-C06-Z	1	Crimp Plug, RG179, Belden RG179DT	3.25 / 0.72 sq.
2315-0628-C06-Z	2	Crimp Plug, Belden 1855A, 4855R, 1855ENH	4.52 / 1.07 sq.

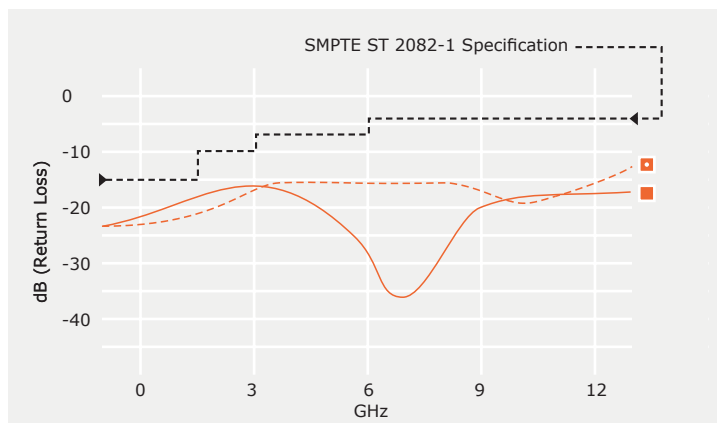
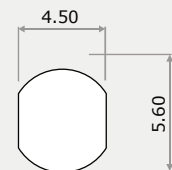


1.0/2.3 DIN Crimp Bulkhead Jacks

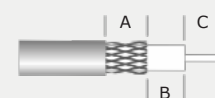


Part Number	Fig	Description	Crimp Hex. (mm)
2302-0179-C01	1	Crimp Bulkhead Jack, RG179, Belden RG179DT	3.25 / 0.72 sq.
2302-0179-C01WP	2	Crimp Bulkhead Jack, Waterproof IP68, RG179, Belden RG179DT	3.25 / 0.72 sq.

Panel Cutout



Recommended Strip Dimensions



	A	B	C
1	6.5	2.5	2.0
2	8.0	2.5	2.5

All dimensions in mm

BNC and HD BNC Cable Assemblies



Part Number	Fig	Description
7PX1B7PX1BB150-200	1	BNC Plug to BNC Plug, Belden 1505, 200mm
7PX1B7PX1BB169-200	1	BNC Plug to BNC Plug, Belden 1694, 200mm
7PX1B7PX1BB185-200	1	BNC Plug to BNC Plug, Belden 1855, 200mm
Z1CPBZ1CPBB150-200	2	HD BNC Plug to HD BNC Plug, Belden 1505, 200mm
Z1CPBZ1CPBB169-200	2	HD BNC Plug to HD BNC Plug, Belden 1694, 200mm
Z1CPBZ1CPBB185-200	2	HD BNC Plug to HD BNC Plug, Belden 1855, 200mm
7PX1BZ1CPBB150-200	3	BNC Plug to HD BNC Plug, Belden 1505, 200mm
7PX1BZ1CPBB169-200	3	BNC Plug to HD BNC Plug, Belden 1694, 200mm
7PX1BZ1CPBB185-200	3	BNC Plug to HD BNC Plug, Belden 1855, 200mm
7JX1BZ1CPBB150-200	4	BNC Jack to HD BNC Plug, Belden 1505, 200mm
7JX1BZ1CPBB169-200	4	BNC Jack to HD BNC Plug, Belden 1694, 200mm
7JX1BZ1CPBB185-200	4	BNC Jack to HD BNC Plug, Belden 1855, 200mm

* Replace last section of Part Number to vary required length
e.g. ...185-300 = 300mm, 185-3000 = 3000mm (3 metres)

Tooling and Accessories



Fig 1

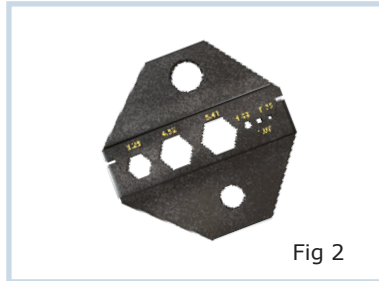


Fig 2

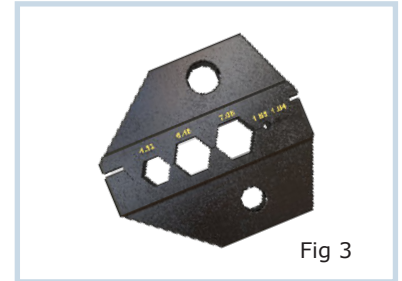


Fig 3



Fig 4

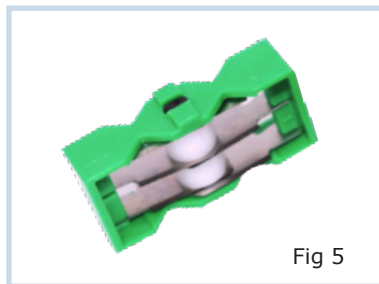


Fig 5

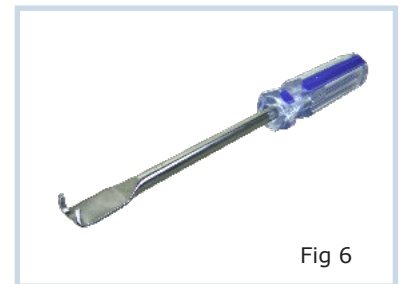


Fig 6

Part Number	Fig	Description
GCT-4165	1	Crimp Tool Frame Only
GDS-4405	2	Die Set Only - 5.41mm, 4.52mm, 3.25mm, 1.69mm, 1.07sq, 0.72sq.
GDS-4406	3	Die Set Only - 7.06mm, 6.48mm, 4.52mm, 1.68mm, 1.04sq.
GST-399	4	Stripping Tool including Cassette (Dark Brown) 3.5mm / 7.5mm
GC-399	-	Stripping Tool Cassette (Dark Brown) 3.5mm / 7.5mm
GC-305	5	Stripping Tool Cassette (Green) 6.0mm / 6.0mm
GT-0628	6	HDBNC Mounting Tool

- Image Not Shown

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