



12G SDI, 4K

75 ohm Coaxial Connectors
For Precision Broadcast Applications

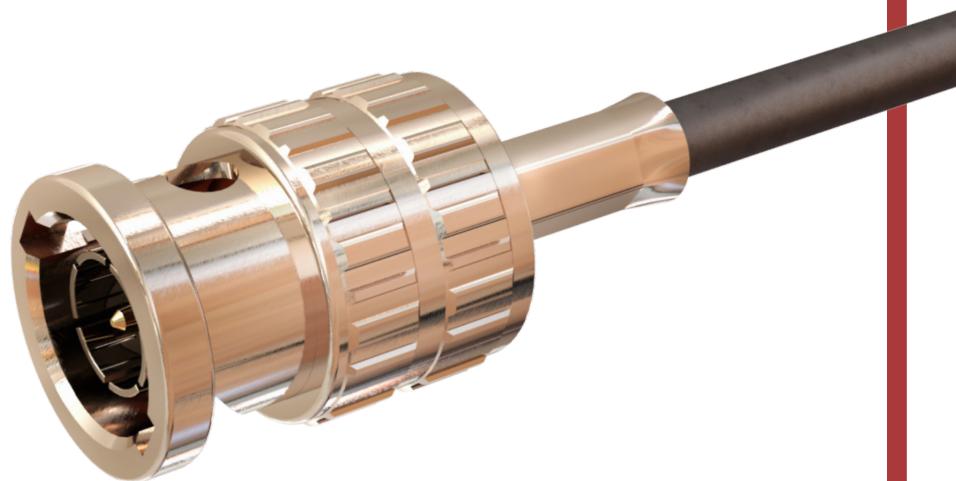
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12G SDI, 4K 75 ohm Coaxial Connectors

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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, PCB and Panel

Materials

Bodies	Zinc Alloy, 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

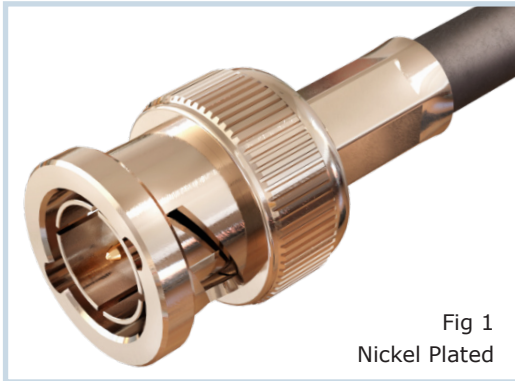


Fig 1
Nickel Plated

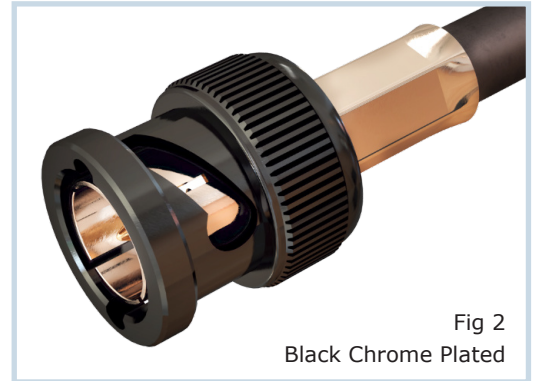
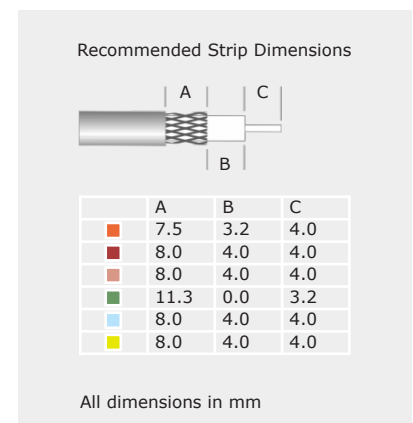
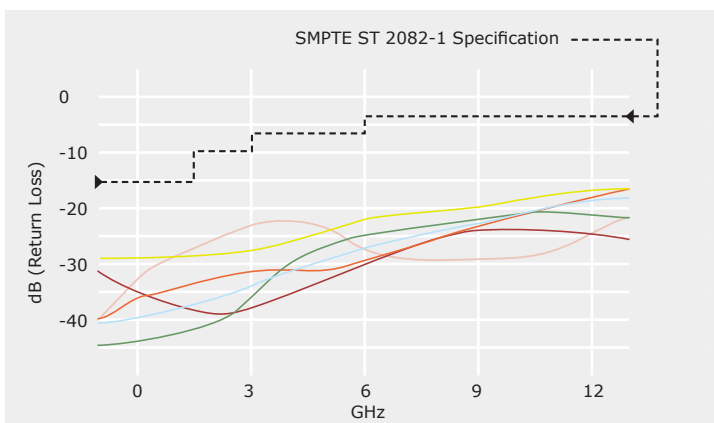


Fig 2
Black Chrome Plated

Part Number	Fig	Description	Crimp Die (mm)
BN15-0179-C06D-Z	1	Crimp Plug, Gigatronix UHD75-179D, Belden 179DT	4.52 / 1.07 sq.
BN15-0179-C23-Z	2		
BN15-4855-C06D-Z	1	Crimp Plug, Gigatronix UHD75-M59 / M59XF, Belden 4855R	4.52 / 1.07 sq.
BN15-4855-C23-Z	2		
BN15-1855-C06D-Z	1	Crimp Plug, Gigatronix HD75-0628 (0.6/2.8), UHD75-0729 (0.7/2.9)	5.41 / 1.07 sq.
BN15-1855-C23-Z	2		
BN15-1505-C06D-Z	1	Crimp Plug, Gigatronix UHD75-59 / 59XF, Belden 4505R	6.48 / 1.07 sq.
BN15-1505-C23-Z	2		
BN15-1694-C06D-Z	1	Crimp Plug, Gigatronix UHD75-6 / 6XF, Belden 4694R	7.06 / 1.07 sq.
BN15-1694-C23-Z	2		
BN15-1673-C06-Z	1	Crimp Plug, Belden 7731A, 7431R	9.75 / 1.69
BN15-1673-C23-Z	2		

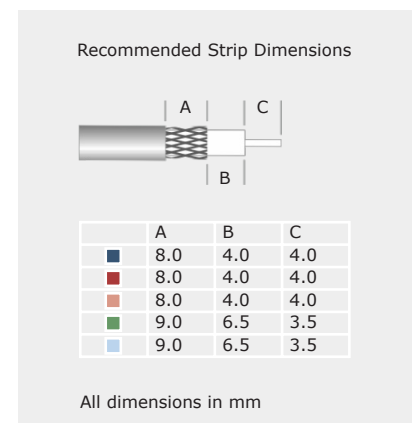
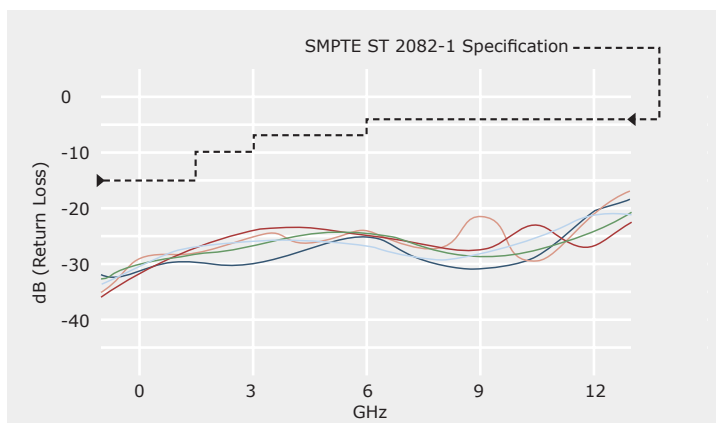


BNC Crimp Plugs with Extended Coupling Nuts

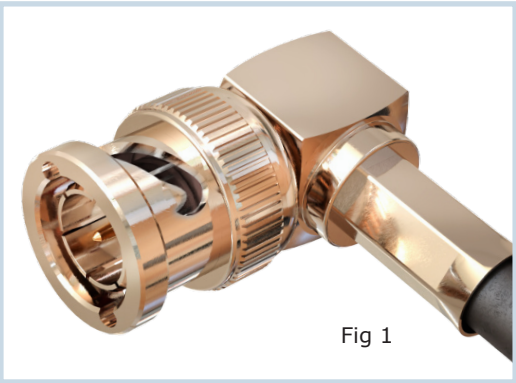


Fig 1

Part Number	Fig	Description	Crimp Die (mm)
BN15-4855-C06X-Z	■	1 Crimp Plug, Gigatronix UHD75-M59 / M59XF, 4855R	4.52 / 1.07 sq.
BN15-1505-C06X-Z	■	1 Crimp Plug, Gigatronix UHD75-59 / 59XF, Belden 4505R	6.48 / 1.07 sq.
BN15-1694-C06X-Z	■	1 Crimp Plug, Gigatronix UHD75-6 / 6XF, Belden 4694R	7.06 / 1.07 sq.
BN15-3300-C06X-Z	■	1 Crimp Plug, Canare L-3.3CUHD	5.85 / 1.35 sq.
BN15-5500-C06X-Z	■	1 Crimp Plug, Canare L-5.5CUHD	8.05 / 1.62 sq.
BN15-0L25-C06X-Z	■	1 Crimp Plug, Canare L-2.5CHD	5.85 / 1.35 sq.
BN15-0L30-C06X-Z	■	1 Crimp Plug, Canare L-3CFB	5.85 / 1.35 sq.
BN15-0L40-C06X-Z	■	1 Crimp Plug, Canare L-4.0CHD	6.40 / 1.35 sq.
BN15-0L45-C06X-Z	■	1 Crimp Plug, Canare L-4.5CHD	7.60 / 1.35 sq.

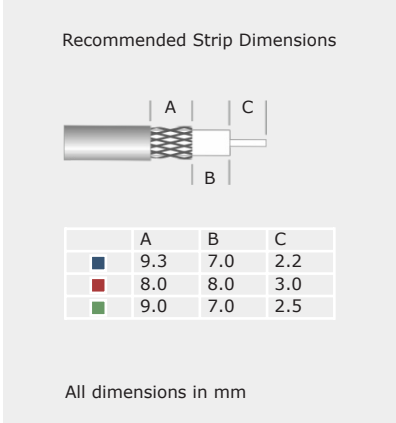
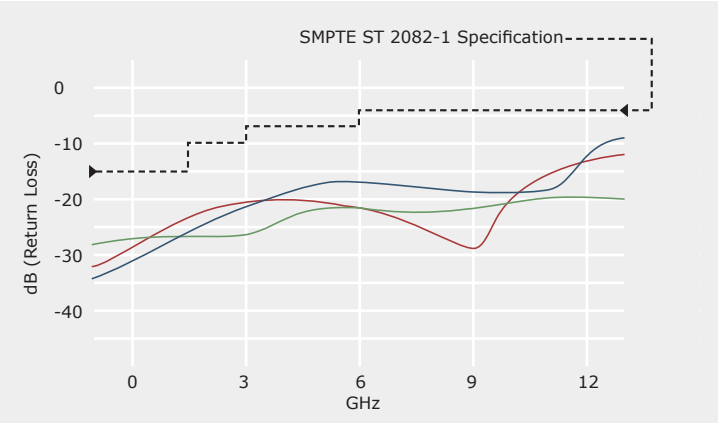


BNC Crimp Right Angle Plugs



Part Number	Fig	Description	Crimp Die (mm)
BN17-4855-C06-Z	■	1 Crimp Right Angle Plug, Gigatronix UHD75-M59 / M59XF, Belden 4855R	4.52 / Solder
BN17-1505-C06-Z ‡	■	1 Crimp Right Angle Plug, Gigatronix UHD75-59 / 59XF, Belden 4505R	6.48 / Solder
BN17-1694-C06-Z	■	1 Crimp Right Angle Plug, Gigatronix UHD75-6 / 6XF, Belden 4694R	7.06 / Solder

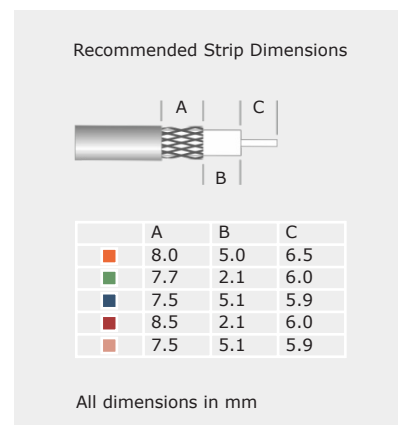
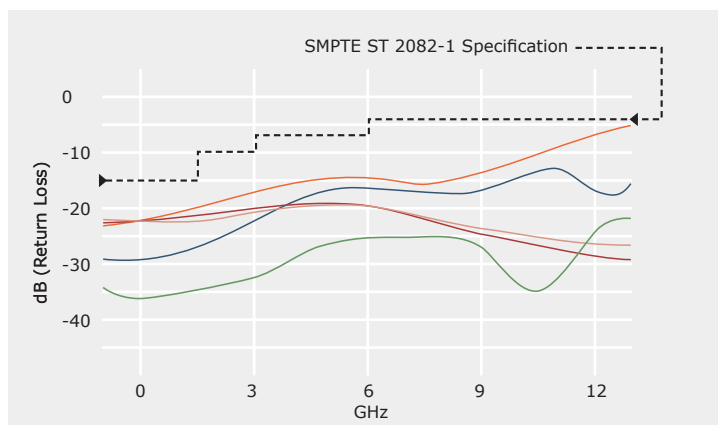
‡ Preferred stock item



BNC Crimp Jacks



Part Number	Fig	Description	Crimp Die (mm)
BN10-0179-C06-Z	1	Crimp Jack, Gigatronix UHD75-179D, Belden 179DT	4.52 / 1.69
BN10-4855-C06-Z	1	Crimp Jack, Gigatronix UHD75-M59 / M59XF, Belden 4855R	4.52 / 1.07 sq.
BN10-0628-C06-Z	1	Crimp Jack, Gigatronix HD75-0628 (0.6/2.8), UHD75-0729 (0.7/2.9)	5.41 / 1.69
BN10-1505-C06-Z	1	Crimp Jack, Gigatronix UHD75-59 / 59XF, Belden 4505R	6.48 / 1.07 sq.
BN10-1694-C06-Z	1	Crimp Jack, Gigatronix UHD75-6 / 6XF, Belden 4694R	7.06 / 1.69



BNC Crimp Bulkhead Jacks

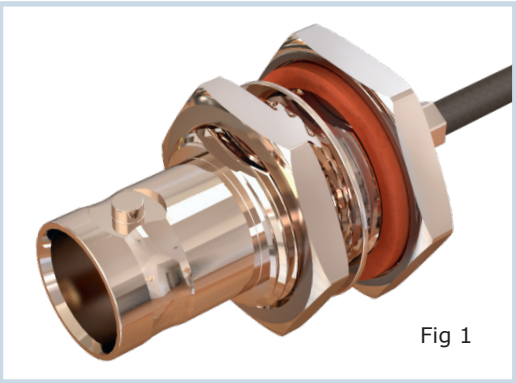


Fig 1

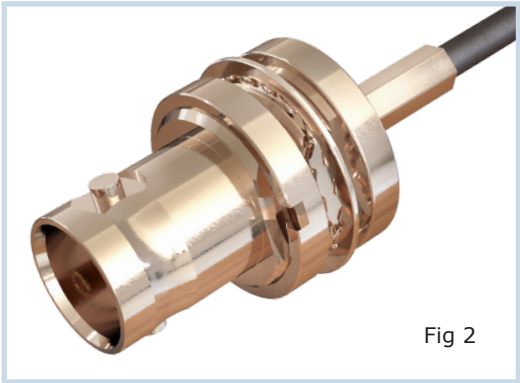
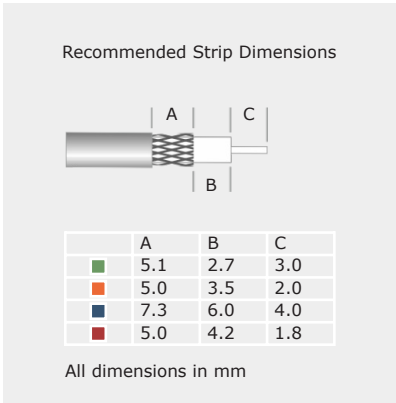
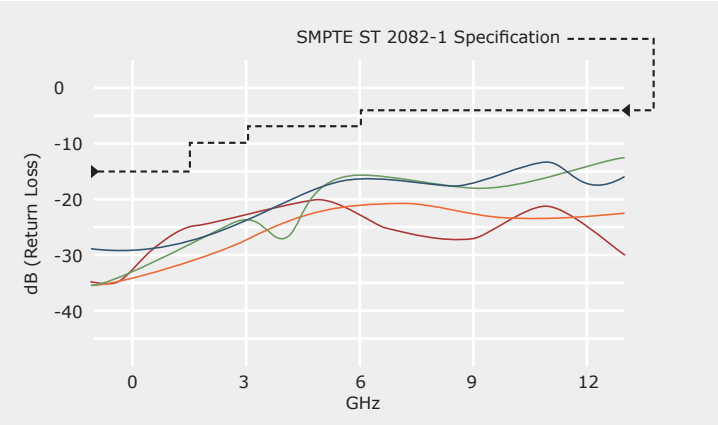
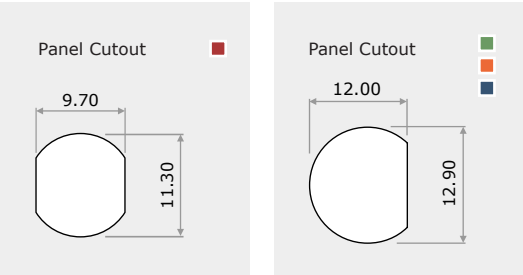


Fig 2

Part Number	Fig	Description	Crimp Die (mm)	
BN02-0179-C06WP-Z		1	Crimp Bulkhead Jack, Hex. Flange, IP68, Gigatronix UHD75-179D, Belden 179DT	3.25 / 0.72 sq.
BN02-017C-C06-Z		-		
BN02-0179-C06-1-Z		+	Crimp Bulkhead Jack, Circular Flange, Gigatronix UHD75-179D, 179DT	3.25 / Solder
BN02-017C-C06-1-Z		2		
BN02-4855-C06-Z		2	Crimp Bulkhead Jack, Circular Flange, Gigatronix UHD75-M59 / M59XF	4.52 / 1.07 sq.
BN02-4855-C06-1-Z		+		
BN02-0179-C06-Z-38		+	Crimp Bulkhead Jack, Circular Flange, Gigatronix UHD75-179D, 179DT	3.25 / Solder

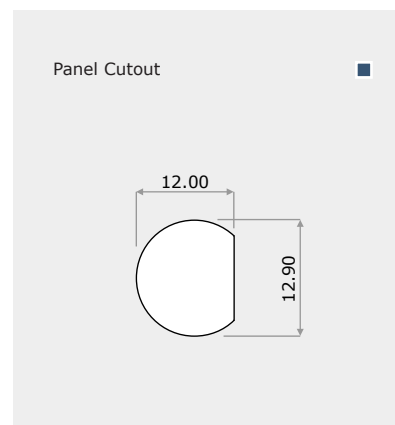
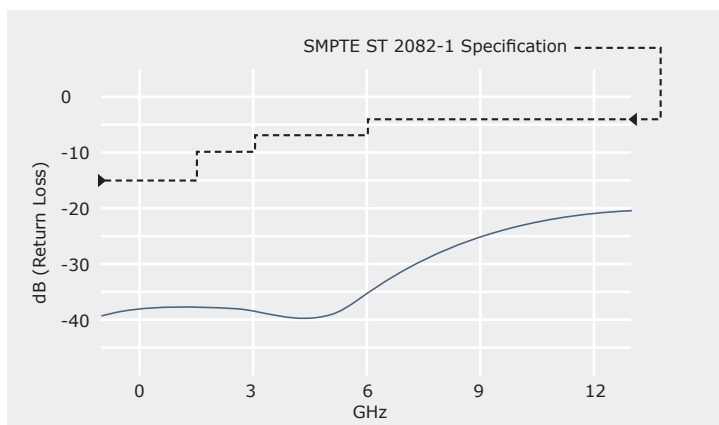
- Image not shown (Circular Lock Nut version)
- + Image not shown (Hex. Lock Nut version)



BNC Bulkhead Jack to Jack Adaptors



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



BNC Adaptors and Terminators

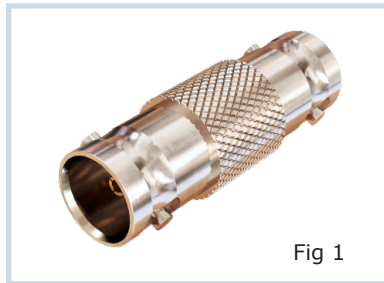


Fig 1

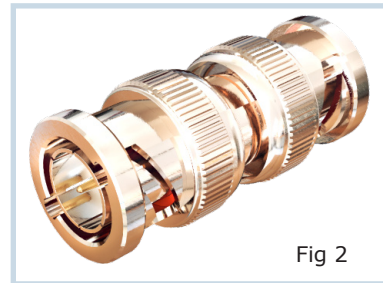


Fig 2



Fig 3

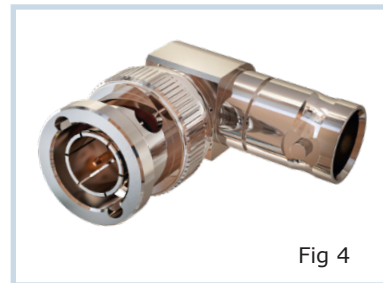
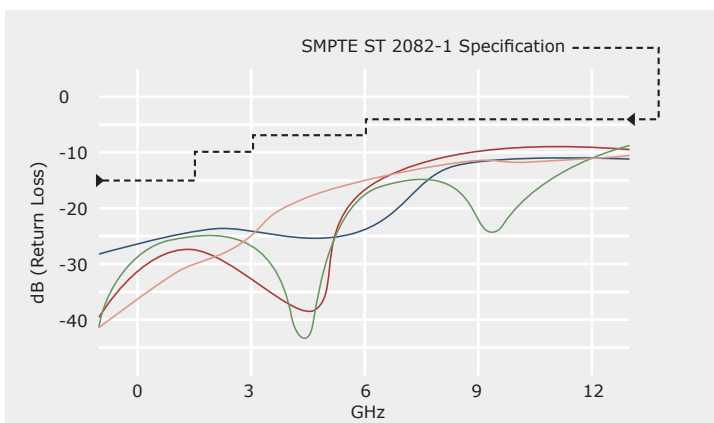


Fig 4

Part Number	Fig	Description
BN10-10-A06D-Z	1	BNC Jack to Jack Adaptor, Brass, Nickel Plated
BN15-15-A06-Z	2	BNC Plug to Plug Adaptor, Nickel Plated
BN15-75-A06-Z	3	BNC 75 Ohm Terminator, Nickel Plated
BN17-10-A06-Z	4	BNC Right Angle Plug to Jack Adaptor, Nickel Plated



BNC PCB Mount End Launch Jacks



Fig 1

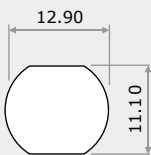


Fig 2

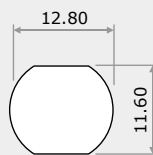
Part Number	Fig	Description
BN02-X800-N01-17	■ 1	BNC End launch Jack, 1.57mm PCB, Gold Plated, Hex. Nut
BN02-X800-N06-17	■ -	BNC End launch Jack, 1.57mm PCB, Nickel Plated, Hex. Nut
BN02-X800-N01-Z	■ -	BNC End launch Jack, 1.57mm PCB, Gold Plated, Circular Nut
BN02-X800-N06-54	■ 2	BNC End Launch Bulkhead Jack, Nickel Plated, PTFE Dielectric, 75 ohms

- Image not shown

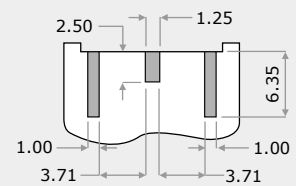
Panel Cutout ■



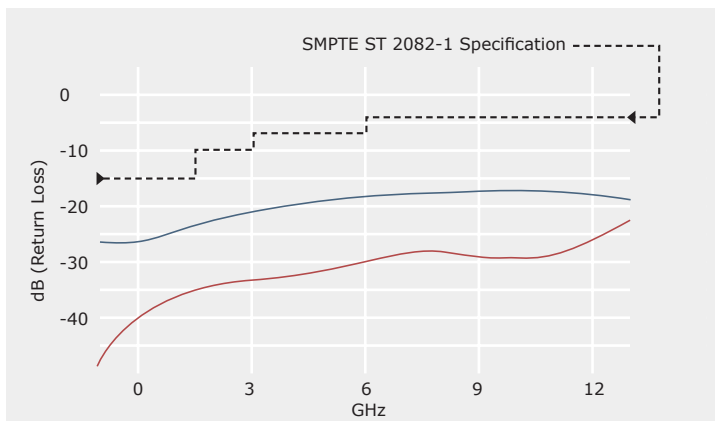
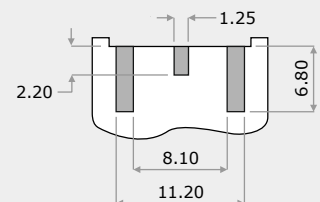
Panel Cutout ■



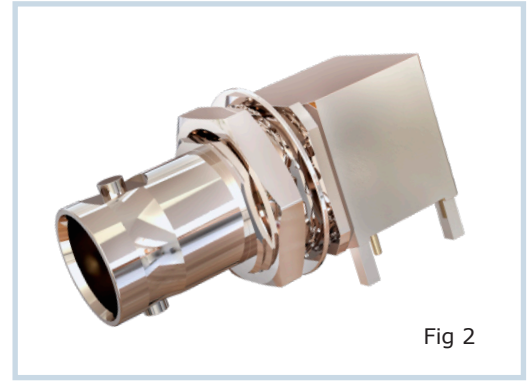
Recommended PCB Soldering Pattern ■



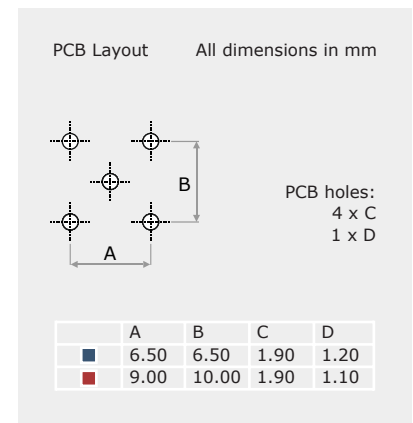
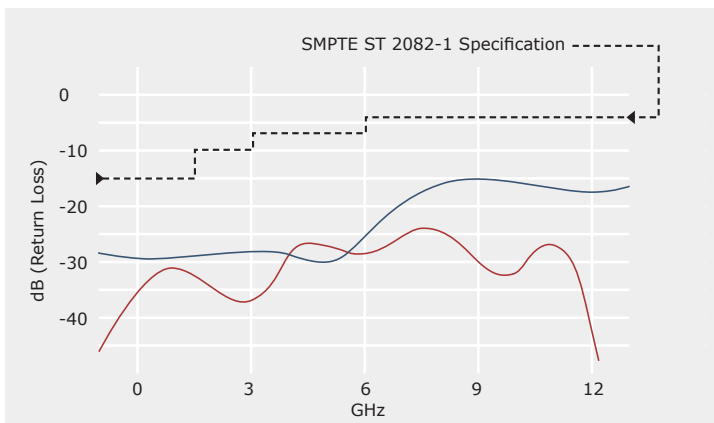
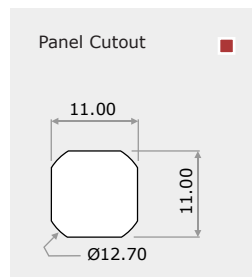
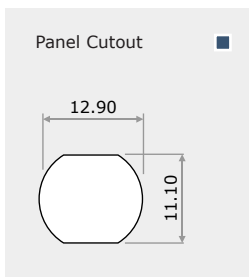
Recommended PCB Soldering Pattern ■



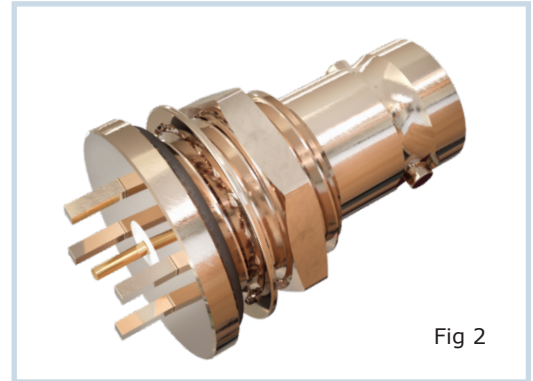
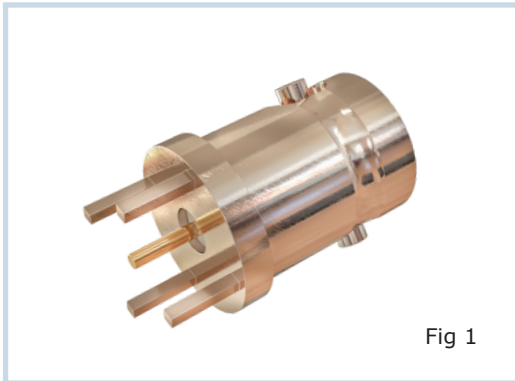
BNC PCB Mount Right Angle Jacks



Part Number	Fig	Description
BN02-X600-N06-Z	1	BNC Right Angle PCB Mount Bulkhead Jack, Nickel Plated, Hex. Nut
BN02-X600-N06-Z-18	2	BNC Right Angle PCB Mount Bulkhead Jack, Nickel Plated, Hex. Nut

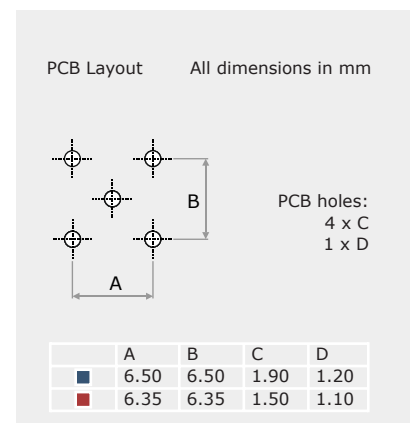
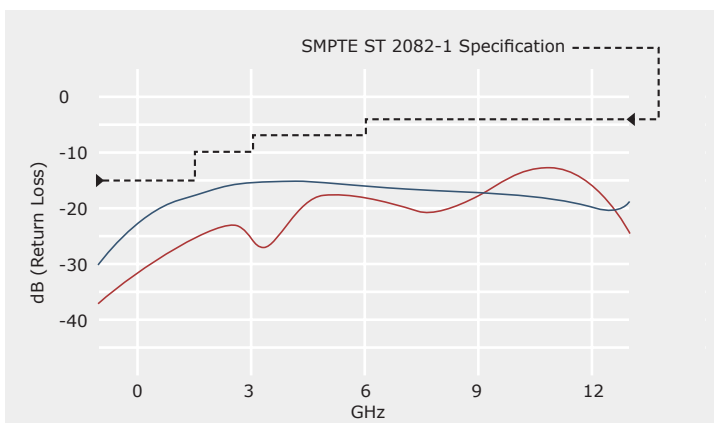
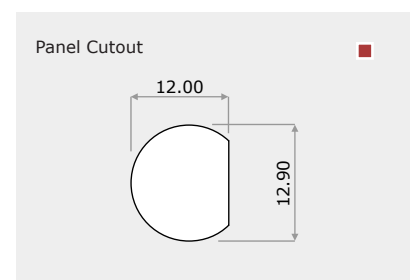


BNC Vertical PCB Jacks



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

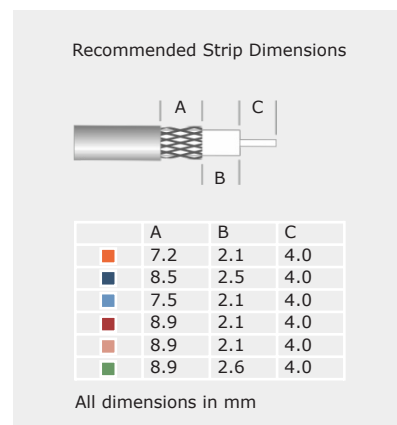
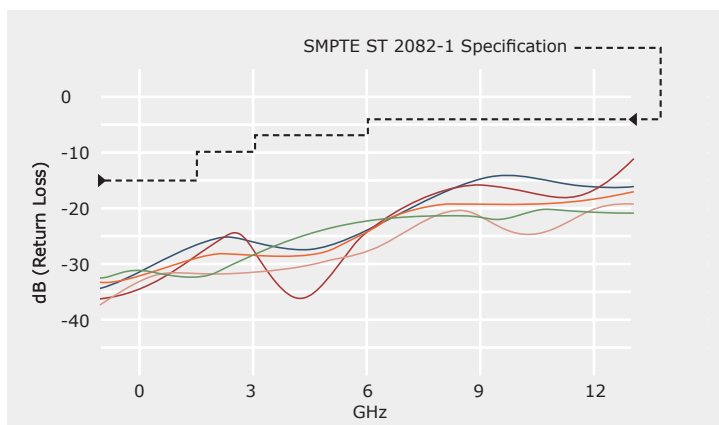
Electrical	
Impedance	75 ohm
Max Frequency	12GHz
Working Voltage	500 Volts RMS Maximum
Dielectric Withstanding Voltage	500 Volts RMS Maximum
Environmental	
RoHS Compliant	Yes
Temperature Range - PTFE	-65 to + 165 degrees C
Mechanical	
Durability	500 mating cycles
Cable Retention	Equal to breaking strain of cable
Fixing Method	Crimp, PCB or Panel
Materials	
Bodies	Brass, Nickel, Tri-Alloy 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

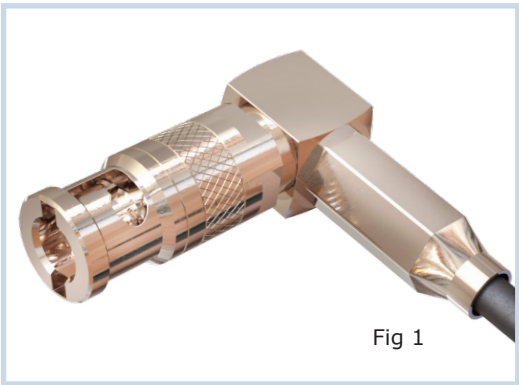


Fig 1

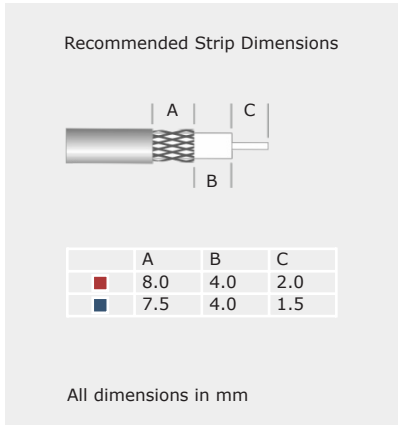
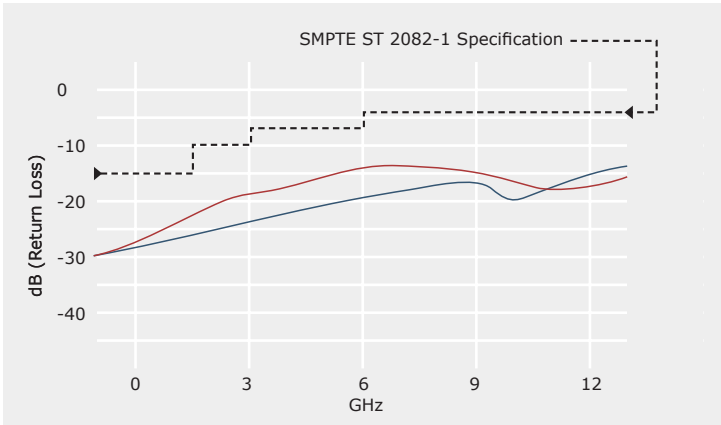
Part Number	Fig	Description	Crimp Die (mm)
HD15-0179-C06-Z	1	Crimp Plug, Gigatronix UHD75-179D, 179DT	3.25 / 1.07 sq.
HD15-4855-C06-Z	1	Crimp Plug, Gigatronix UHD75-M59 / M59XF, 4855R, L-2.5CHD	4.52 / 1.07 sq.
HD15-0628-C06-Z	1	Crimp Plug, Gigatronix HD75-0628 (0.6/2.8), UHD75-0729 (0.7/2.9)	5.41 / 1.07 sq.
HD15-1505-C06-Z	1	Crimp Plug, Gigatronix UHD75-59 / 59XF, Belden 4505R	6.48 / 1.07 sq.
HD15-1694-C06-Z	1	Crimp Plug, Gigatronix UHD75-6 / 6XF, Belden 4694R	7.06 / 1.07 sq.
HD15-3300-C06-Z	1	Crimp Plug, Canare L-3.3CUHD	5.85 / 1.16 sq.



HD BNC Crimp Right Angle Plugs



Part Number	Fig	Description	Crimp Die (mm)
HD17-0179-C06-1-Z	■ 1	Crimp Right Angle Plug, Gigatronix UHD75-179D, 179DT	4.52 / Solder
HD17-0628-C06-Z	■ 2	Crimp Right Angle Plug, Gigatronix HD75-0628 (0.6/2.8), UHD75-0729 (0.7/2.9)	5.41 / Solder
HD17-4855-C06-Z	■ 2	Crimp Right Angle Plug, Gigatronix UHD75-M59 / M59XF, Belden 4855R	4.52 / Solder



HD BNC Crimp Bulkhead Jacks and Jack to Jack Adaptor

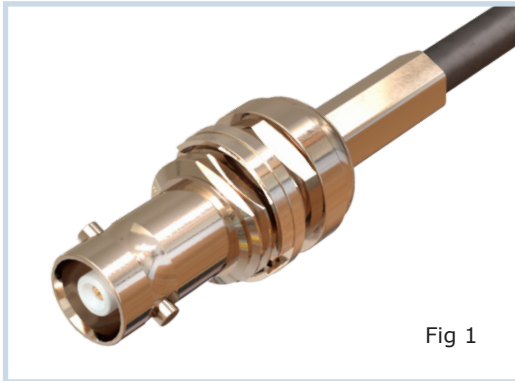


Fig 1

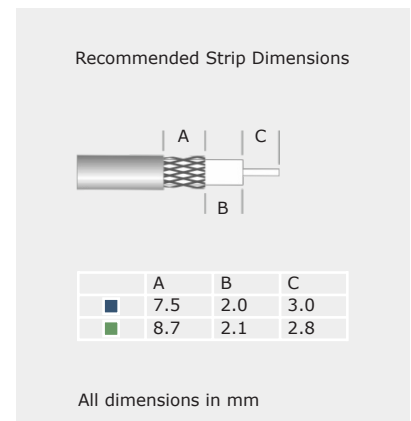
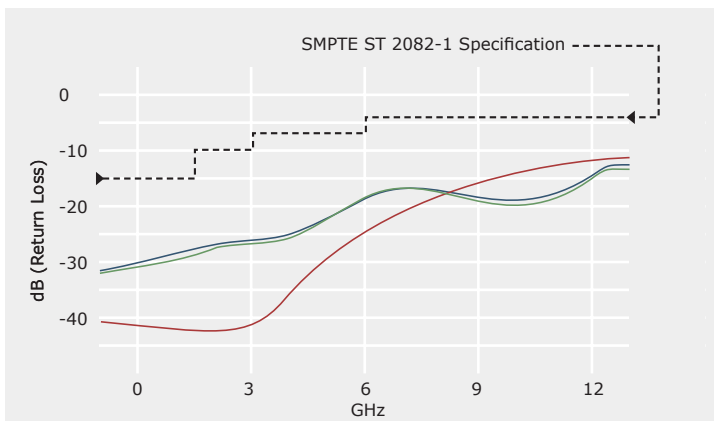
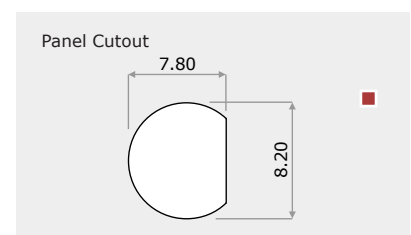
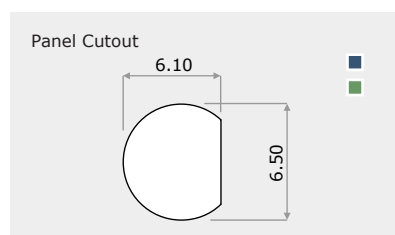


Fig 2

Part Number	Fig	Description	Crimp Die (mm)
HD02-0179-C06-Z ‡	1	Crimp Bulkhead Jack, Nickel Plated, Gigatronix UHD75-179D, 179DT	3.25 / 1.07 sq.
HD02-0179-C01-Z	-	Crimp Bulkhead Jack, Gold Plated, Gigatronix UHD75-179D, 179DT	3.25 / 1.07 sq.
HD02-4855-C06-Z	2	Crimp Bulkhead Jack, Nickel Plated, Gigatronix UHD75-M59 / M59XF, Belden 4855R	4.52 / 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

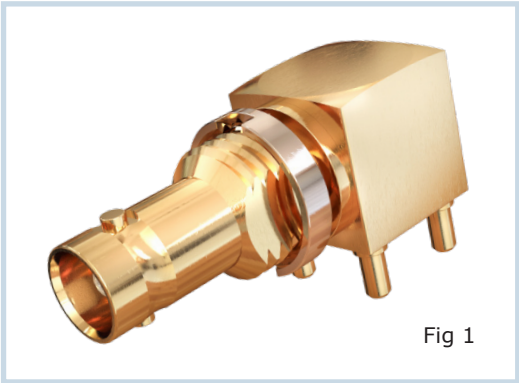


Fig 1

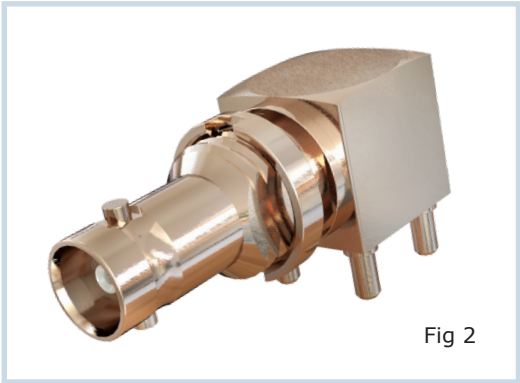
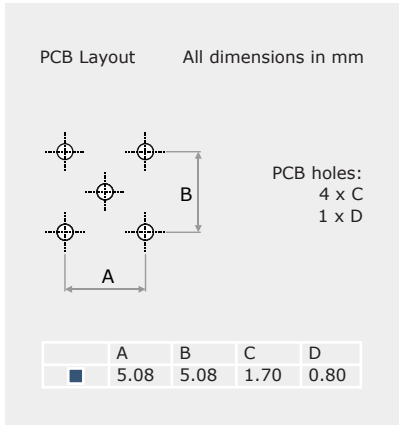
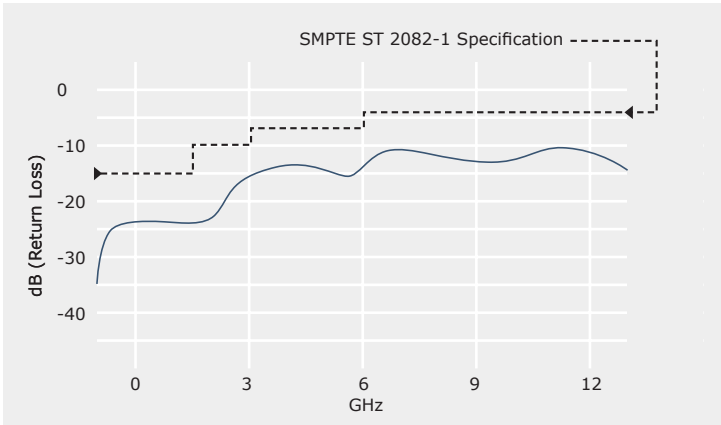
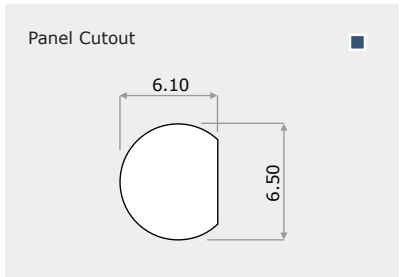


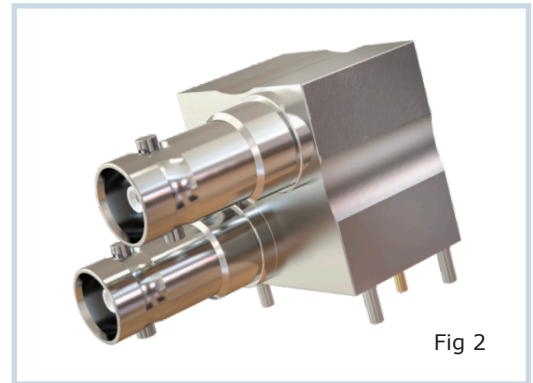
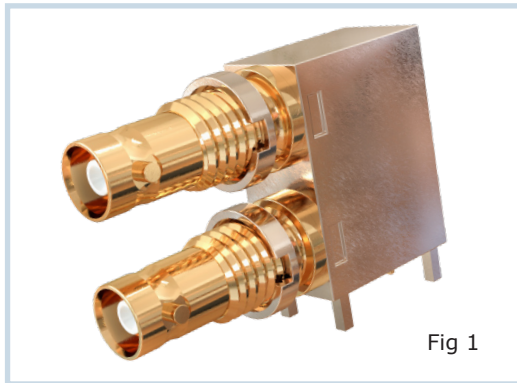
Fig 2

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

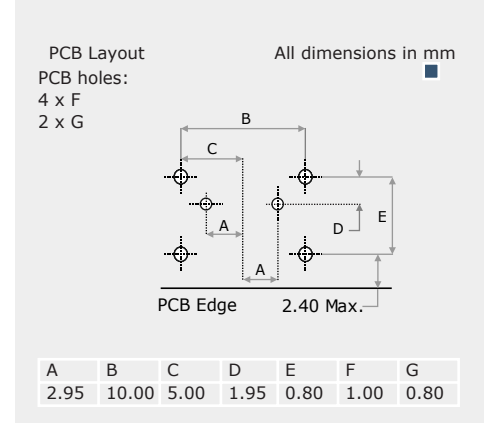
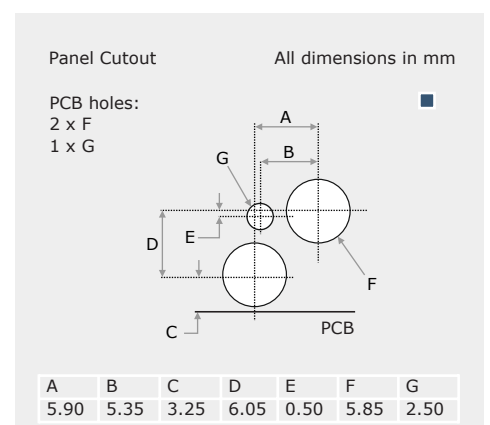
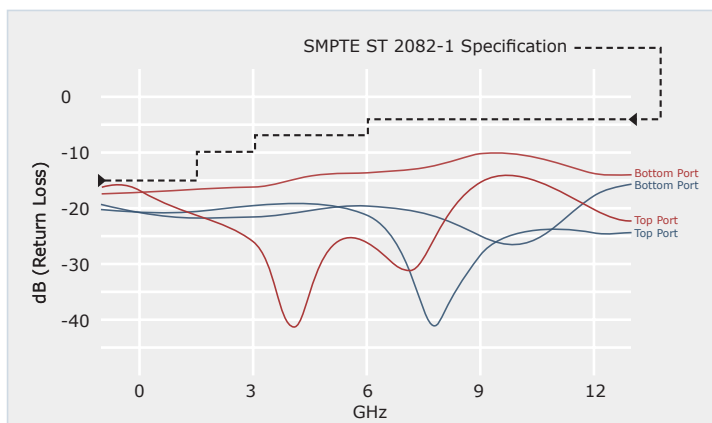
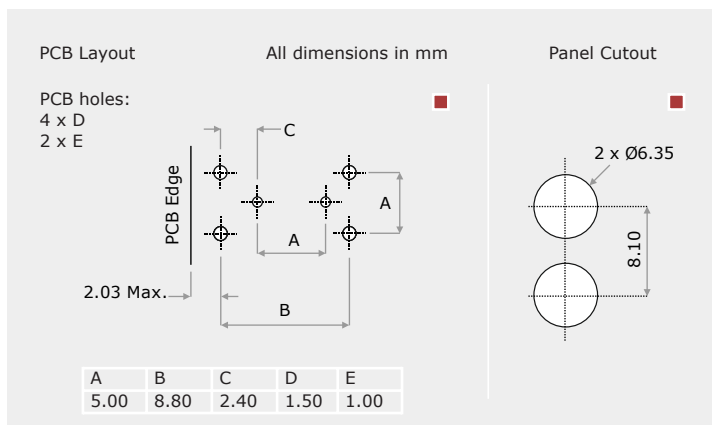
‡ Preferred stock item



HD BNC PCB Mount Right Angle Jacks - Dual Port



Part Number	Fig	Description
HD02-X900-N01-Z	1	HD BNC Right Angle PCB Mount Double Bulkhead Jack
HD02-X945-N49-Z	2	HD BNC Right Angle Double Offset PCB Mount Bulkhead Jack, Tri-Alloy Plated



HD BNC End Launch Jacks and Vertical PCB Jacks



Fig 1

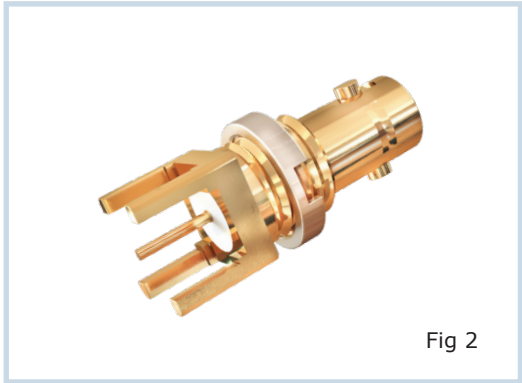
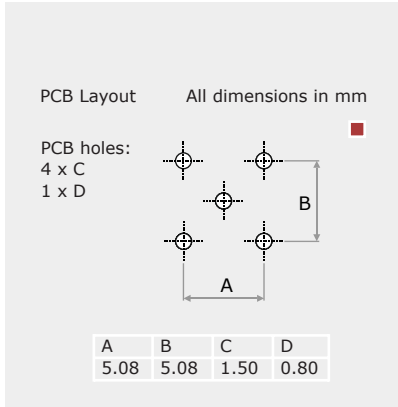
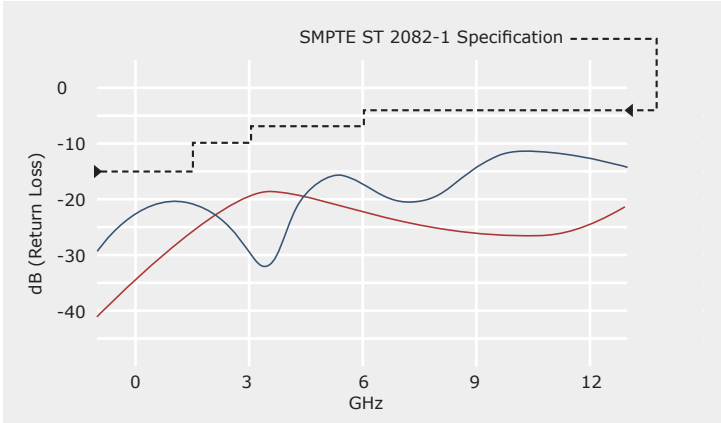
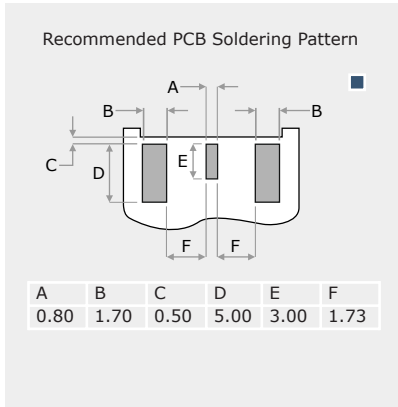
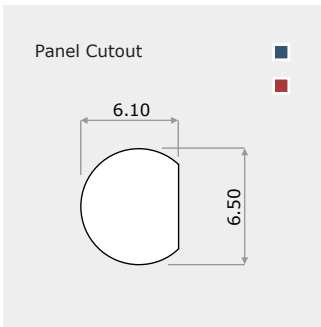


Fig 2

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	-	HD BNC End Launch Jack, 1.57mm PCB, Nickel Plated, Circular Nut
HD02-X150-N01-Z ‡	2	HD BNC Vertical PCB Mount Bulkhead Jack, Gold Plated, Circular Nut
HD02-X150-N06-Z	-	HD BNC Vertical PCB Mount Bulkhead Jack, Nickel Plated, Circular Nut

‡ Preferred stock item

- Image not shown



DIN 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

DIN 1.0/2.3 Crimp Plugs



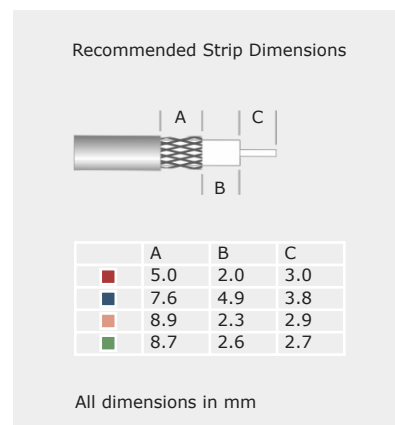
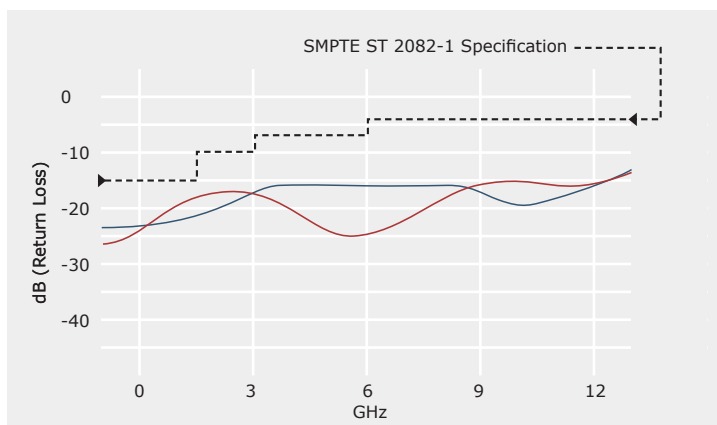
Fig 1



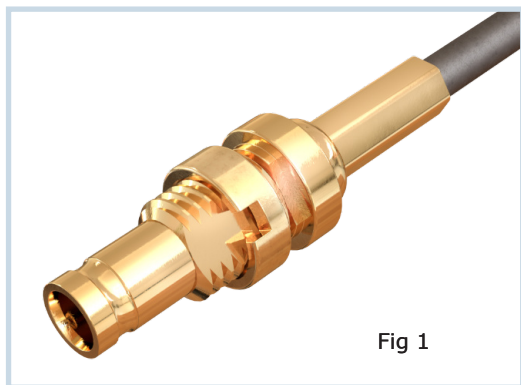
Fig 2

Part Number	Fig	Description	Crimp Die (mm)
2315-0179-C06-Z	■	1 Crimp Plug, Gigatronix UHD75-179D, Belden 179DT	3.25 / 0.72 sq.
2315-0628-C06-Z	■	2 Crimp Plug, Gigatronix HD75-0628 (0.6/2.8), UHD75-0729 (0.7/2.9)	5.41 / 1.07 sq.
2315-3300-C06X-Z	■	- Crimp Plug, Ball Lock Coupling Nut, Canare L-3.3CUHD	5.87 / 1.16 sq.
2315-4855-C06-Z	■	2 Crimp Plug, Gigatronix UHD75-M59/M59XF, Belden 1855/4855	4.52 / 1.07 sq.
2315-4855-C06X-Z	■	- Crimp Plug, Ball Lock Coupling Nut, Gigatronix UHD75-M59 / M59XF, Belden 4855R	4.52 / 1.07 sq.

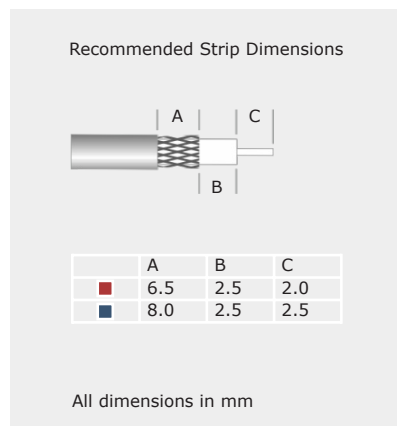
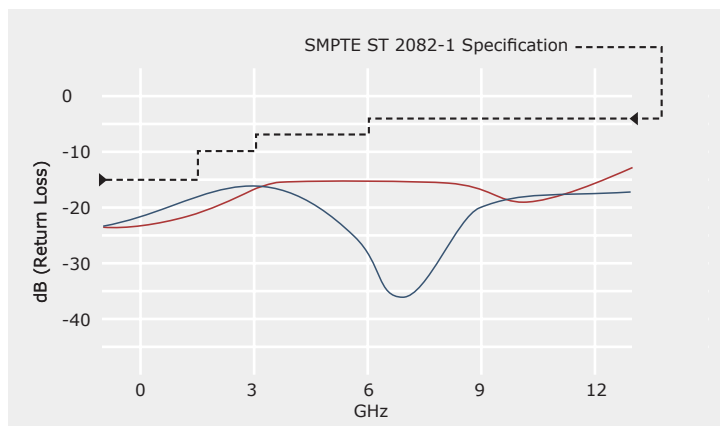
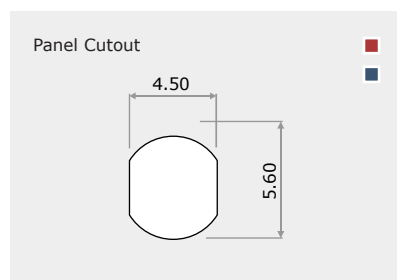
- Image not shown



DIN 1.0/2.3 Crimp Bulkhead Jacks



Part Number	Fig	Description	Crimp Die (mm)
2302-0179-C01	■ 1	Crimp Bulkhead Jack, Gigatronix UHD75-179D, Belden 179DT	3.25 / 0.72 sq.
2302-0179-C01WP	■ 2	Crimp Bulkhead Jack, Waterproof IP68, Gigatronix UHD75-179D, Belden 179DT	3.25 / Solder



BNC and HD BNC Cable Assemblies



Part Number	Fig	Description
7PX1B7PX1BB150-200	1	BNC Plug to BNC Plug, Gigatronix UHD75-59, 200mm
7PX1B7PX1BB169-200	1	BNC Plug to BNC Plug, Gigatronix UHD75-6, 200mm
7PX1B7PX1BB485-200	1	BNC Plug to BNC Plug, Gigatronix UHD75-M59, 200mm
Z1CPBZ1CPBB150-200	2	HD BNC Plug to HD BNC Plug, Gigatronix UHD75-59, 200mm
Z1CPBZ1CPBB169-200	2	HD BNC Plug to HD BNC Plug, Gigatronix UHD75-6, 200mm
Z1CPBZ1CPBB485-200	2	HD BNC Plug to HD BNC Plug, Gigatronix UHD75-M59, 200mm
7PX1BZ1CPBB150-200	3	BNC Plug to HD BNC Plug, Gigatronix UHD75-59, 200mm
7PX1BZ1CPBB169-200	3	BNC Plug to HD BNC Plug, Gigatronix UHD75-6, 200mm
7PX1BZ1CPBB485-200	3	BNC Plug to HD BNC Plug, Gigatronix UHD75-M59, 200mm
7JX1BZ1CPBB150-200	4	BNC Jack to HD BNC Plug, Gigatronix UHD75-59, 200mm
7JX1BZ1CPBB169-200	4	BNC Jack to HD BNC Plug, Gigatronix UHD75-6, 200mm
7JX1BZ1CPBB485-200	4	BNC Jack to HD BNC Plug, Gigatronix UHD75-M59, 200mm

* Replace last section of Part Number to vary required length
e.g. ...485-300 = 300mm, 485-3000 = 3000mm (3 metres)

Tooling and Accessories



Fig 1

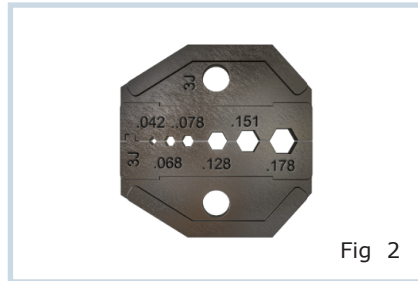


Fig 2



Fig 3



Fig 4



Fig 5



Fig 6

Part Number	Fig	Description
GCT-0436	-	Precision Ratchet Crimp Tool - Frame Only
GCT-0436-003J	1	GCT-0436 Crimp Tool plus 003J Die Set
GCT-0436-03G4	-	GCT-0436 Crimp Tool plus 03G4 Die Set
GCT-0436-03F2	-	GCT-0436 Crimp Tool plus 03F2 Die Set
GCT-0436-03T1	-	GCT-0436 Crimp Tool plus 03T1 Die Set
GDS-003J	2	Die Set for GCT-0436 - 4.52mm, 3.84mm, 3.25mm, 1.98mm, 1.73mm (hex.) / 1.07mm (sq.)
GDS-03G4	-	Die Set for GCT-0436 - 7.06mm, 6.48mm, 4.52mm, 1.73mm (hex.) / 1.07mm (sq.)
GDS-03F2	-	Die Set for GCT-0436 - 5.41mm, 4.52mm, 3.84mm, 1.73mm (hex.) / 1.07mm (sq.)
GDS-03T1	-	Die Set for GCT-0436 - 3.84mm, 3.25mm, 2.54mm (hex.) / 1.20mm, 1.00mm, 0.72mm (sq.)
GST-0322	3	3-Blade Coax Cable Stripper
GT-0628-BN15	4	BNC Mounting Tool
GT-0628-HD15	5	HD BNC Mounting Tool
GSB-0174A	-	Strain Relief Boot for RG174/179, 3.25mm (hex.), Black, Red, Green, Blue
GSB-0174B	-	Strain Relief Boot for RG174/179, 4.52mm (hex.), Black, Red, Green, Blue
GSB-59	-	Strain Relief Boot for SDI-59, RG59, 6.48mm (hex.), Black, Red, Yellow, Green, Blue, Violet
GSB-6	6	Strain Relief Boot for SDI-6, 7.06mm (hex.), Black, Red, Yellow, Green, Blue, Violet
GSB-M59	-	Strain Relief Boot for SDI-M59, 4.52mm (hex.), Black, Red, Yellow, Green, Blue, Violet

- Image Not Shown

Innovation and Quality in Connectivity Solutions

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