



12G SDI, 4K

75 ohm Coaxial Connectors
For Precision Broadcast Applications

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Gigatronix



12G SDI, 4K 75 ohm Coaxial Connectors

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BNC Specifications

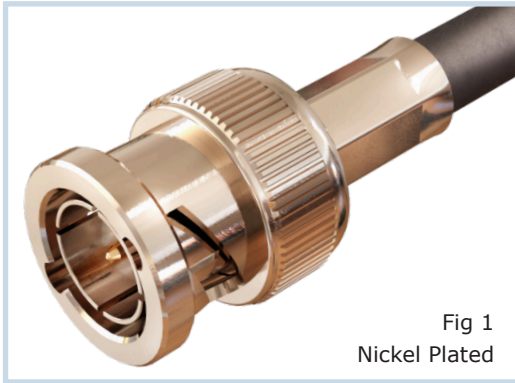
Electrical	
Impedance	75 ohm
Max Frequency	12GHz
Working Voltage	500 Volts RMS Maximum
Dielectric Withstanding Voltage	1500 Volts RMS Maximum

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

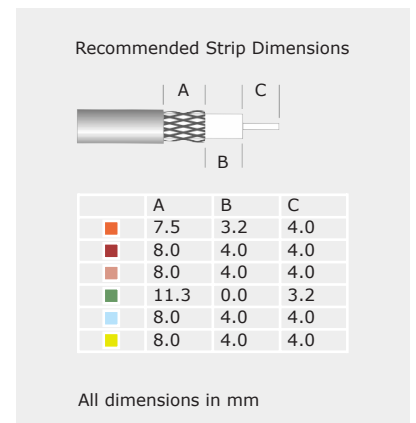
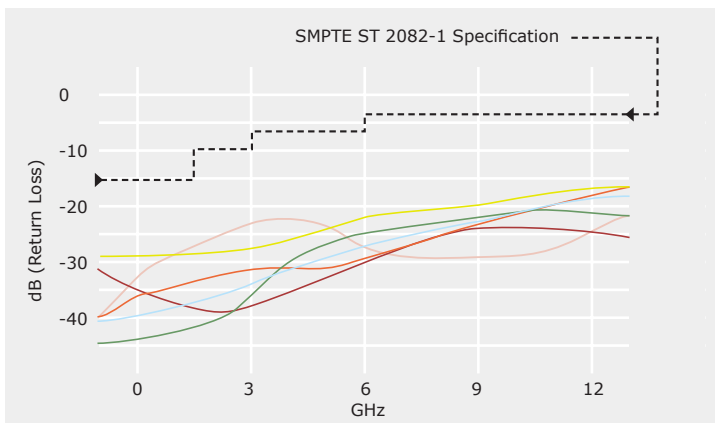
Mechanical	
Durability	500 Mating Cycles
Cable Retention	Equal to the breaking strain of cable
Fixing Method	Crimp, PCB and Panel

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

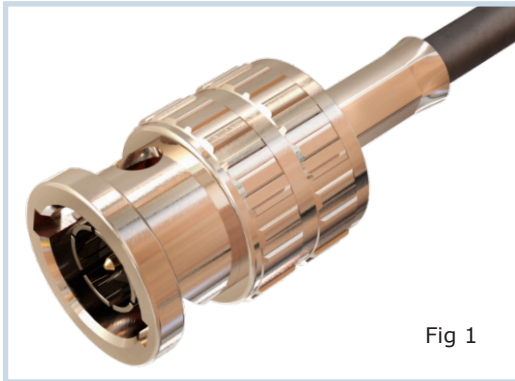
BNC Crimp Plugs



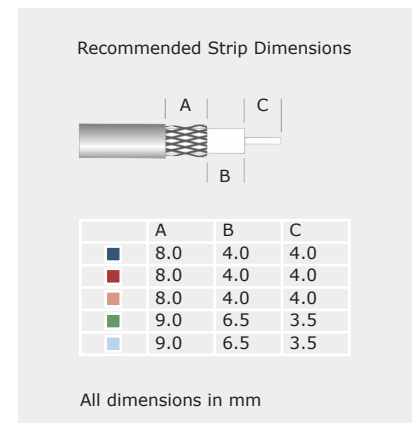
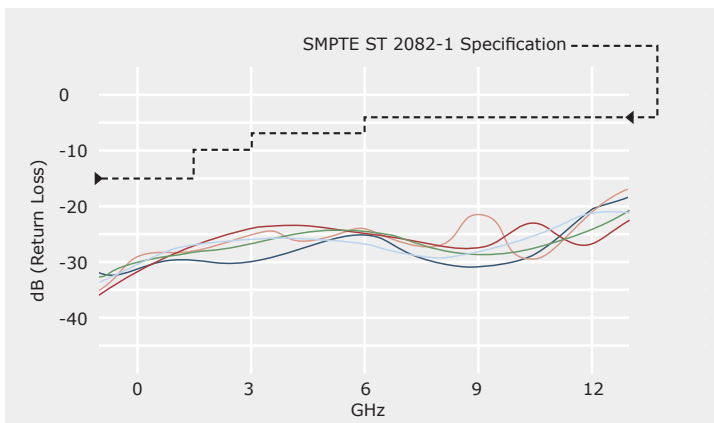
Part Number	Fig	Description	Crimp Die (mm)
BN15-0179-C06D-Z	1	Crimp Plug, RG179, Belden RG179DT, 12G-SDI-179D	4.52 / 1.07 sq.
BN15-0179-C23-Z	2		
BN15-4855-C06D-Z	1	Crimp Plug, Belden 1855A, 4855R, 12G-SDI-M59	4.52 / 1.07 sq.
BN15-4855-C23-Z	2		
BN15-1855-C06D-Z	1	Crimp Plug, Belden 1855A, 4855R, 1855ENH, 12G-SDI-M59	5.41 / 1.07 sq.
BN15-1855-C23-Z	2		
BN15-1505-C06D-Z	1	Crimp Plug, Belden 1505A, 4505R, 12G-SDI-59	6.48 / 1.07 sq.
BN15-1505-C23-Z	2		
BN15-1694-C06D-Z	1	Crimp Plug, Belden 1694A, 4694R, 12G-SDI-6	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		



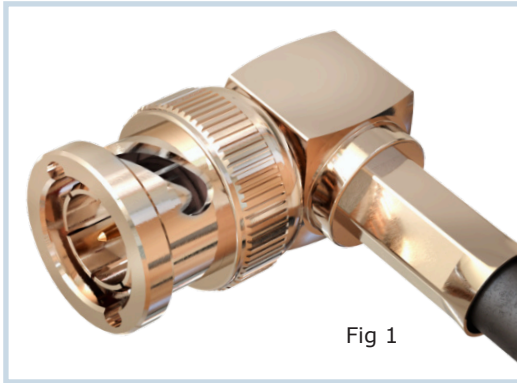
BNC Crimp Plugs with Extended Coupling Nuts



Part Number	Fig	Description	Crimp Die (mm)
BN15-4855-C06X-Z	■	1 Crimp Plug, Belden 1855A, 4855R, 12G-SDI-M59	4.52 / 1.07 sq.
BN15-1505-C06X-Z	■	1 Crimp Plug, Belden 1505A, 4505R, 1505F, 1505ANH, 12G-SDI-59	6.48 / 1.07 sq.
BN15-1694-C06X-Z	■	1 Crimp Plug, Belden 1694A, 4694R, 1694ANH, 12G-SDI-6	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 / 1.60 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-3.0CHD	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.

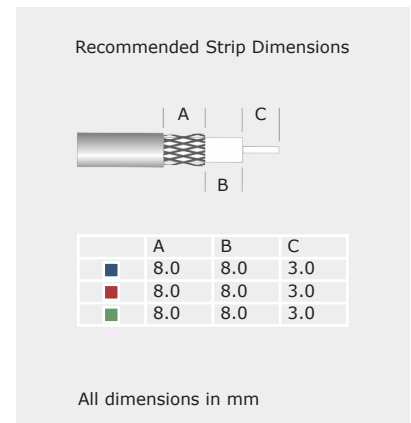
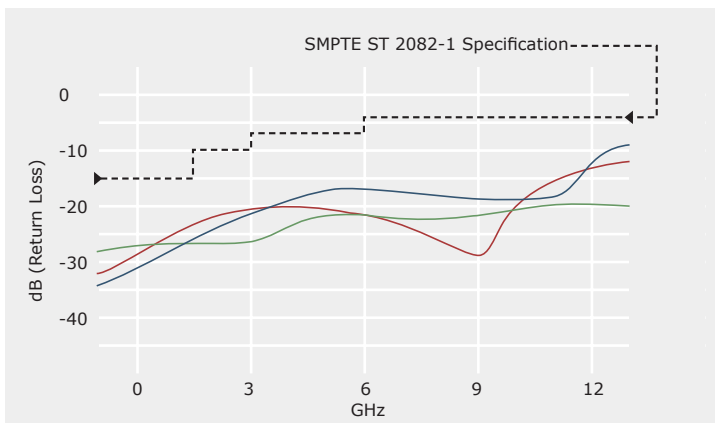


BNC Crimp Right Angle Plugs



Part Number	Fig	Description	Crimp Die (mm)
BN17-1855-C06-Z	■	1 Crimp Right Angle Plug, Belden 1855A, 4855R, 1855ENH, 12G-SDI-M59	5.41 / Solder
BN17-1505-C06-Z ‡	■	1 Crimp Right Angle Plug, Belden 1505A, 4505R, 1505F, 1505ANH, 12G-SDI-59	6.48 / Solder
BN17-1694-C06-Z	■	1 Crimp Right Angle Plug, Belden 1694, 4694R, 1694ANH, 12G-SDI-6	7.06 / Solder

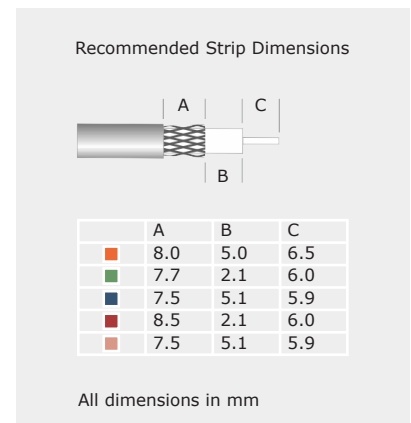
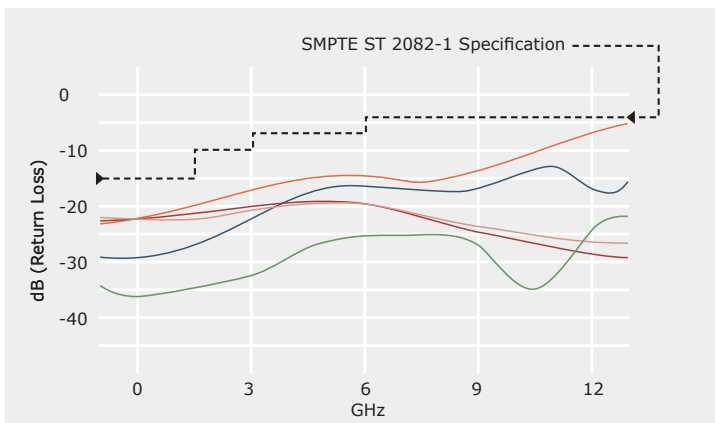
‡ Preferred stock item



BNC Crimp Jacks



Part Number	Fig	Description	Crimp Die (mm)
BN10-0179-C06-Z	1	Crimp Jack, Belden RG179, RG179DT, 12G-SDI-179D	4.52 / 1.69
BN10-4855-C06-Z	1	Crimp Jack, Belden 1855A, 4855R, 12G-SDI-M59	4.52 / 1.07 sq.
BN10-0628-C06-Z	1	Crimp Jack, Belden 1855A, 4855R, 1855ENH, 12G-SDI-M59	5.41 / 1.69
BN10-1505-C06-Z	1	Crimp Jack, Belden 1505A, 4505R, 1505F, 1505ANH, 12G-SDI-59	6.48 / 1.07 sq.
BN10-1694-C06-Z	1	Crimp Jack, Belden 1694A, 4694R, 1694ANH, 12G-SDI-6	7.06 / 1.69



BNC Crimp Bulkhead Jacks



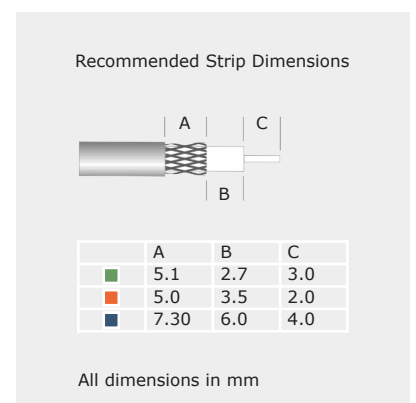
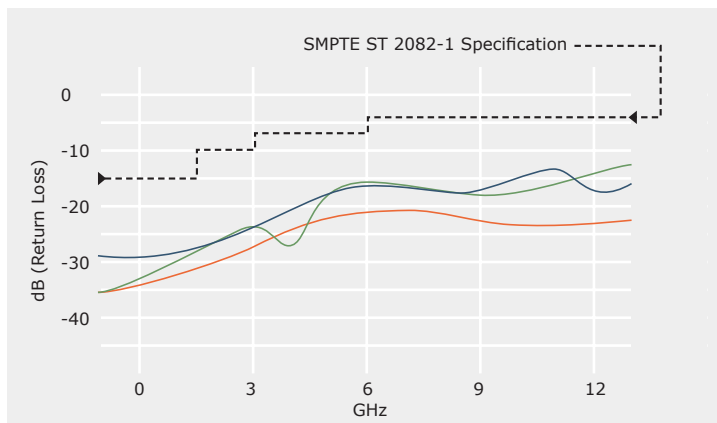
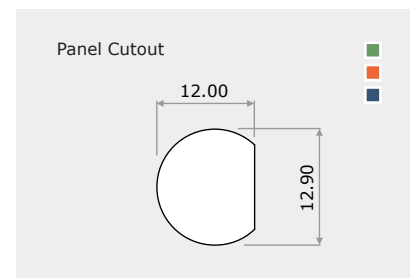
Fig 1



Fig 2

Part Number	Fig	Description	Crimp Die (mm)
BN02-0179-C06WP-Z	■ 1	Crimp Bulkhead Jack, Hex. Flange, IP68, RG179, Belden RG179DT, 12G-SDI-179D	3.25 / 0.72 sq.
BN02-017C-C06-Z	■ -		
BN02-0179-C06-1-Z	■ +	Crimp Bulkhead Jack, Circular Flange, RG179, Belden RG179DT, 12G-SDI-179D	3.25 / Solder
BN02-017C-C06-1-Z	■ 2		
BN02-4855-C06-Z	■ 2	Crimp Bulkhead Jack, Circular Flange, Belden 1855A, 4855R	4.52 / 1.07 sq.

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



BNC Bulkhead Jack to Jack Adaptors



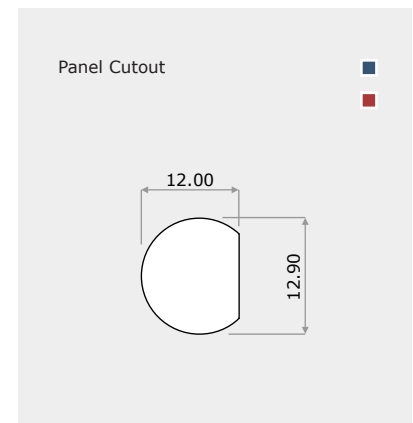
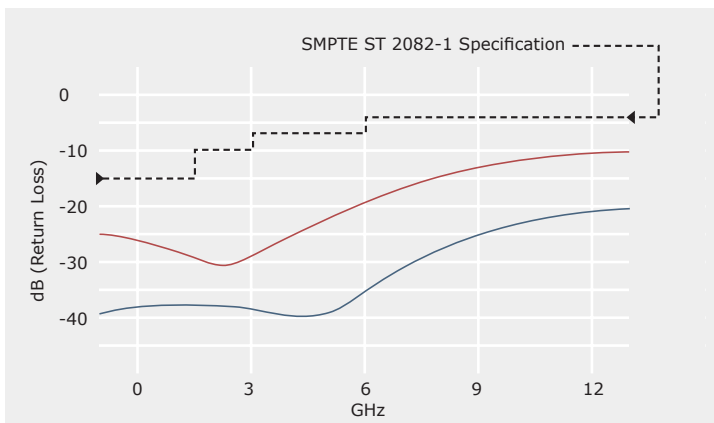
Fig 1



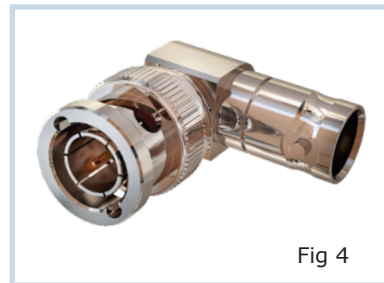
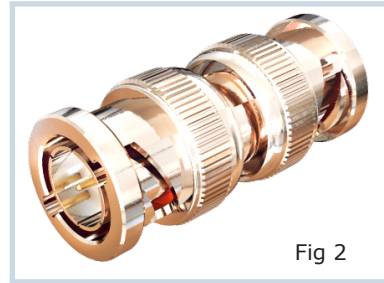
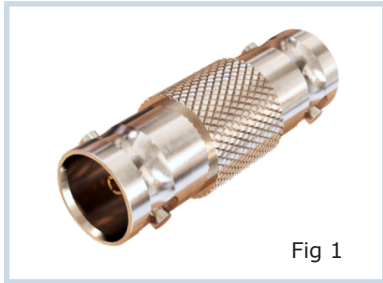
Fig 2

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

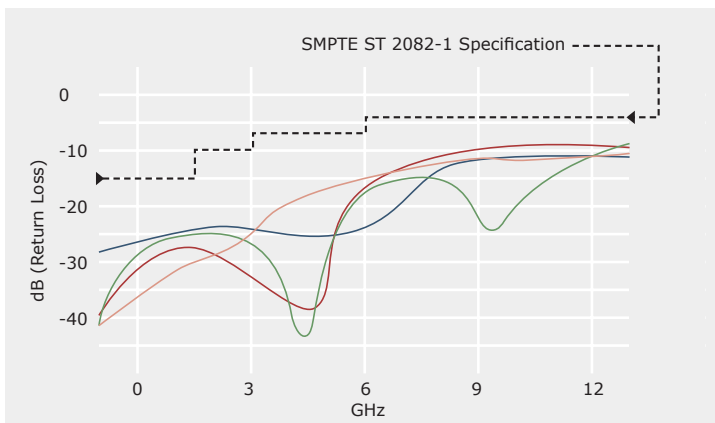
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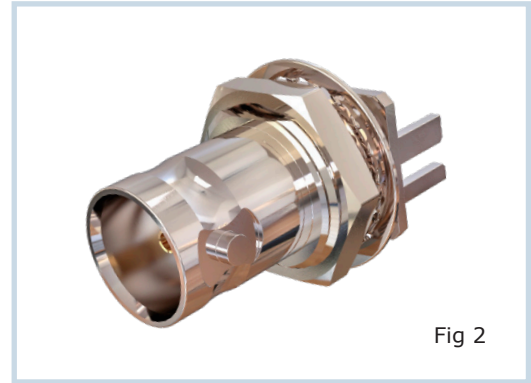
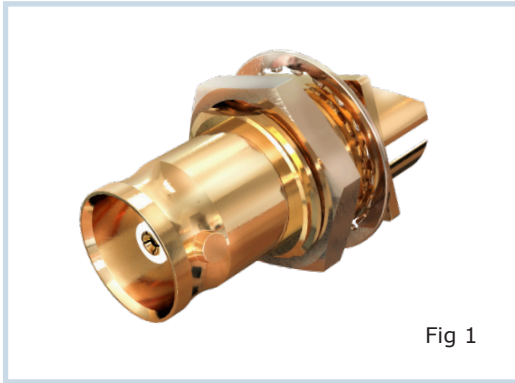
BNC Adaptors and Terminators



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

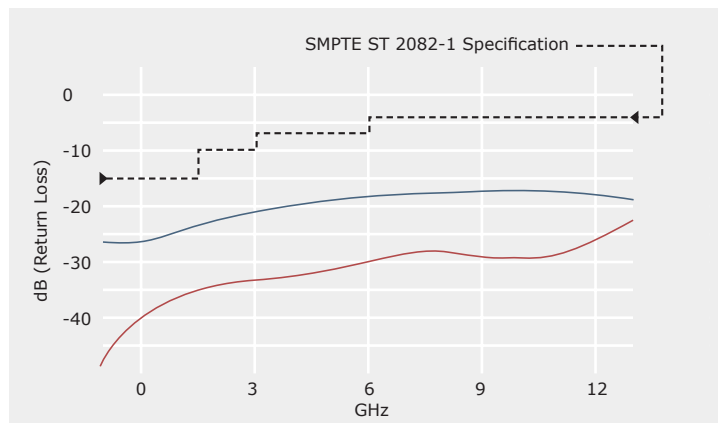
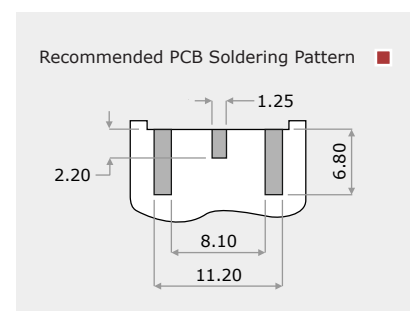
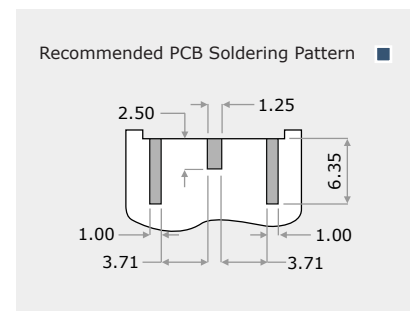
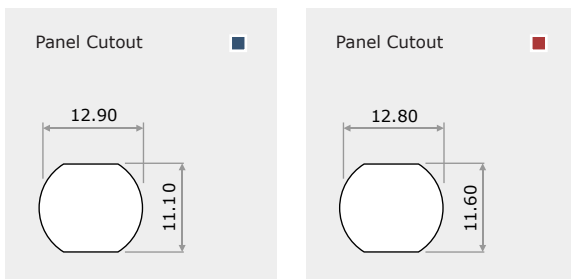


BNC PCB Mount End Launch Jacks

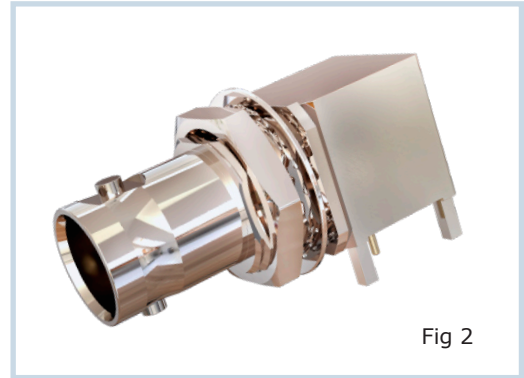
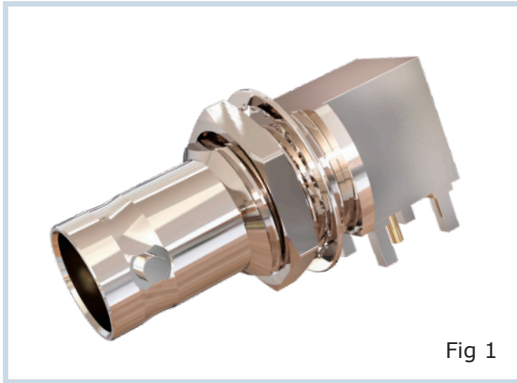


Part Number	Fig	Description
BN02-X800-N01-17	■ 1	BNC End launch Jack, 1.57mm PCB, Gold Plated, Hex. Nut
BN02-X800-N06-17	■ -	BNC End launch Jack, 1.57mm PCB, Nickel Plated, Hex. Nut
BN02-X800-N01-Z	■ -	BNC End launch Jack, 1.57mm PCB, Gold Plated, Circular Nut
BN02-X800-N06-54	■ 2	BNC End Launch Bulkhead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

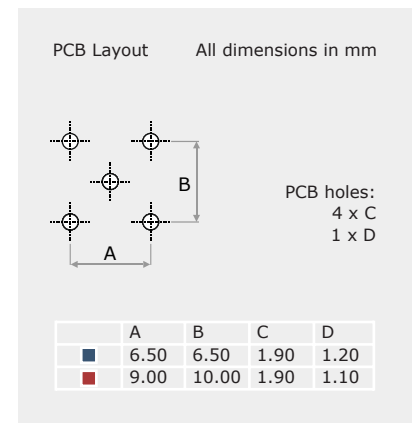
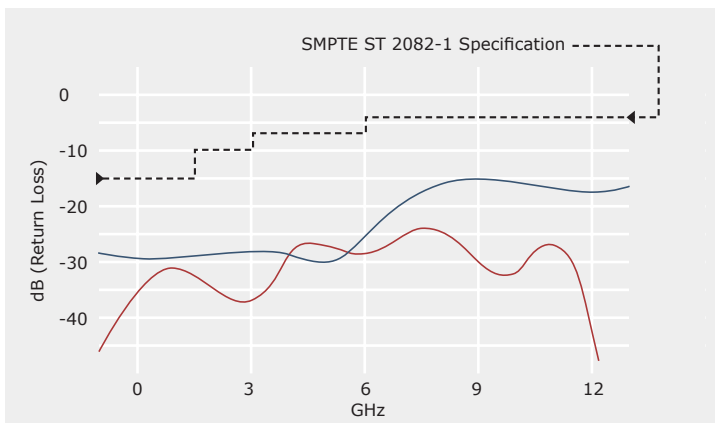
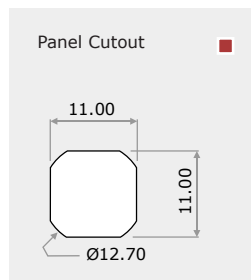
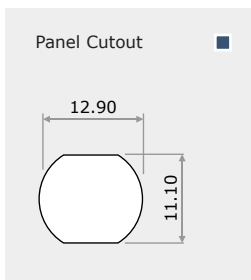
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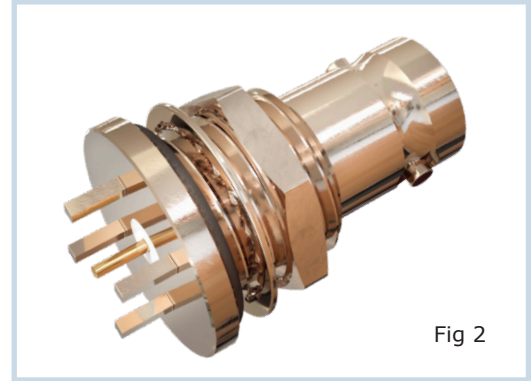
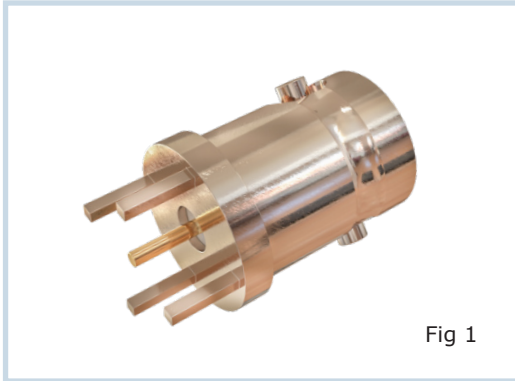
BNC PCB Mount Right Angle Jacks



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

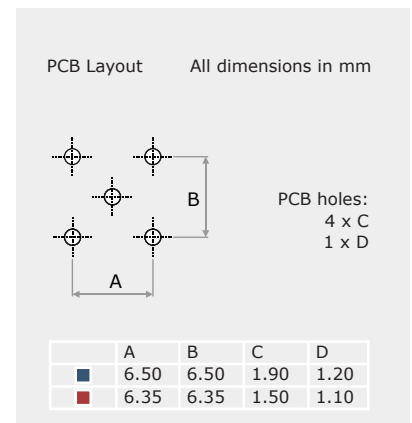
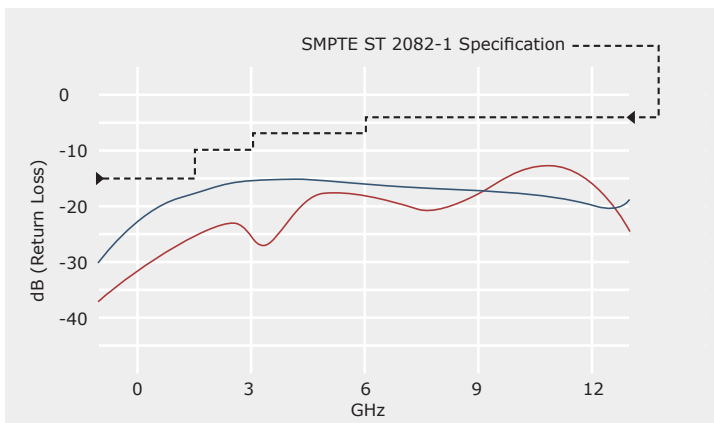
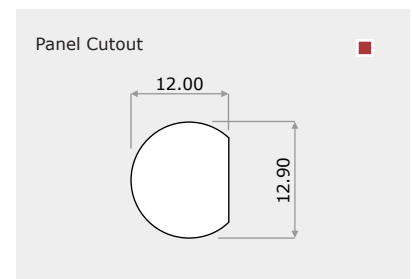


BNC Vertical PCB Jacks



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

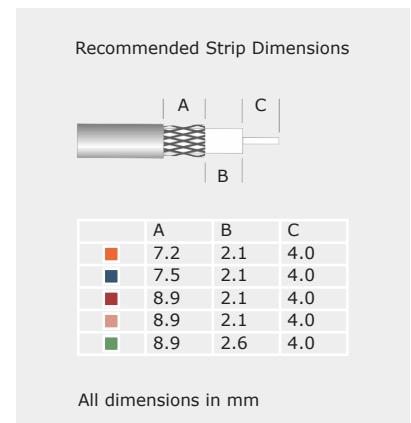
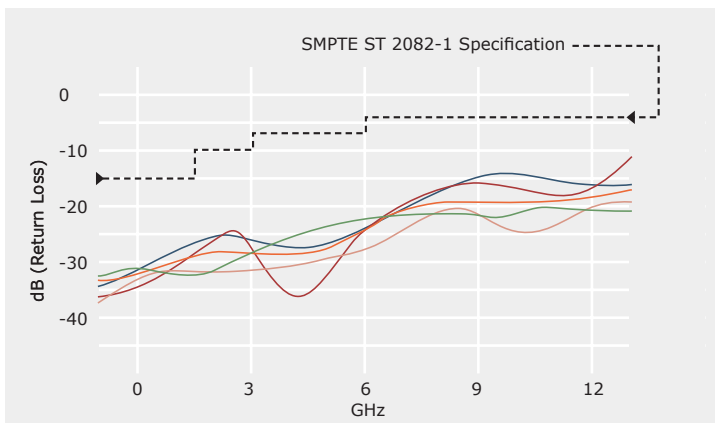
Mechanical	
Durability	500 mating cycles
Cable Retention	Equal to breaking strain of cable
Fixing Method	Crimp, PCB or Panel

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

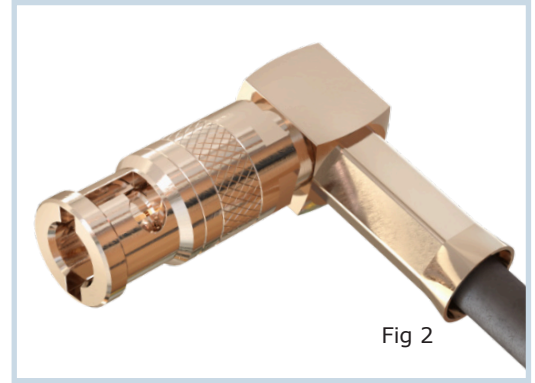
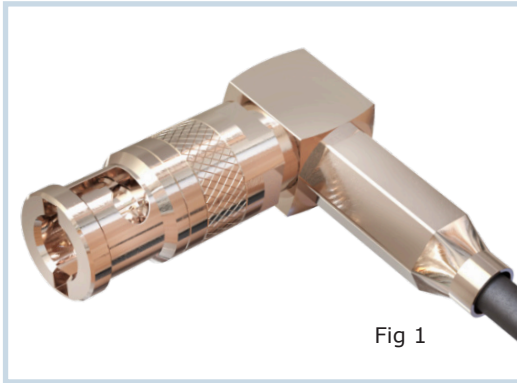
HD BNC Crimp Plugs



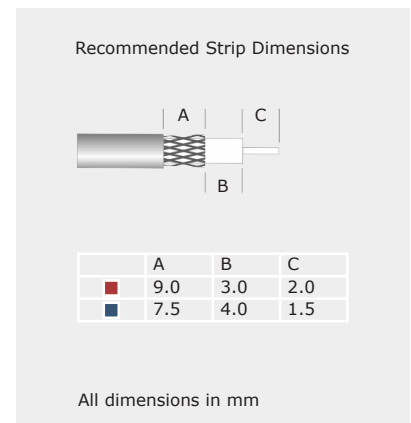
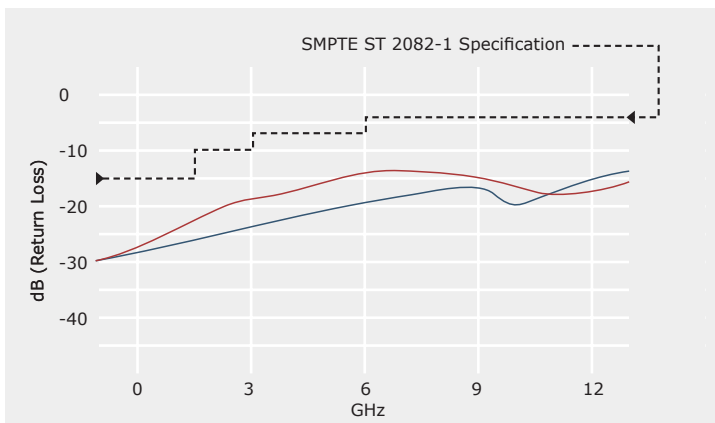
Part Number	Fig	Description	Crimp Die (mm)
HD15-0179-C06-Z	1	Crimp Plug, Belden RG179, RG179DT, 12G-SDI-179D	3.25 / 1.07 sq.
HD15-4855-C06-Z	1	Crimp Plug, Belden 1855A, 4855R, Canare L-2.5CHD, 12G-SDI-M59	4.52 / 1.07 sq.
HD15-0628-C06-Z	1	Crimp Plug, Belden 1855A, 4855R, 1855ENH, 12G-SDI-M59	5.41 / 1.07 sq.
HD15-1505-C06-Z	1	Crimp Plug, Belden 1505A, 4505R, 12G-SDI-59	6.48 / 1.07 sq.
HD15-1694-C06-Z	1	Crimp Plug, Belden 1694A, 4694R, 12G-SDI-6	7.06 / 1.07 sq.
HD15-3300-C06-Z	1	Crimp Plug, Canare L-3.3CUHD	5.85 / 1.16



HD BNC Crimp Right Angle Plugs



Part Number	Fig	Description	Crimp Die (mm)
HD17-0179-C06-1-Z	■ 1	Crimp Right Angle Plug, RG179, Belden RG179DT, 12G-SDI-179D	5.41 / Solder
HD17-0628-C06-Z	■ 2	Crimp Right Angle Plug, Belden 1855A, 4855R, 1855ENH, 12G-SDI-M59	5.41 / Solder



HD BNC Crimp Bulkhead Jacks and Jack to Jack Adaptor

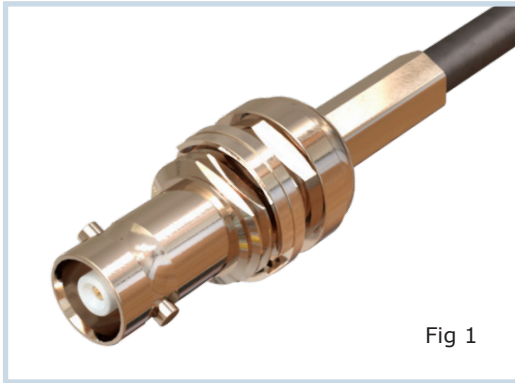


Fig 1

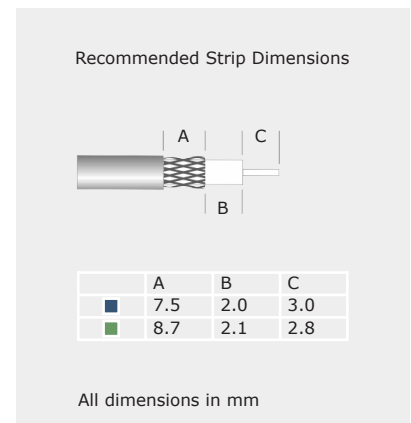
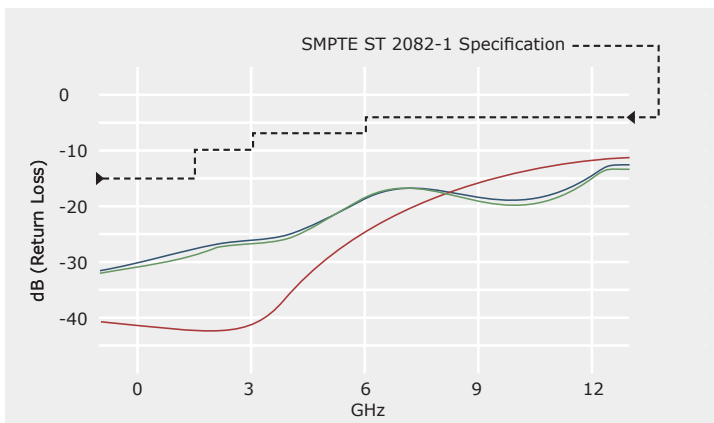
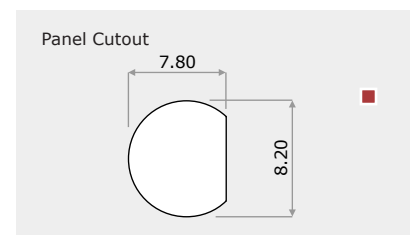
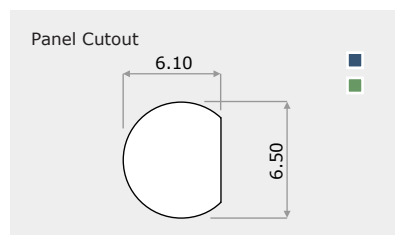


Fig 2

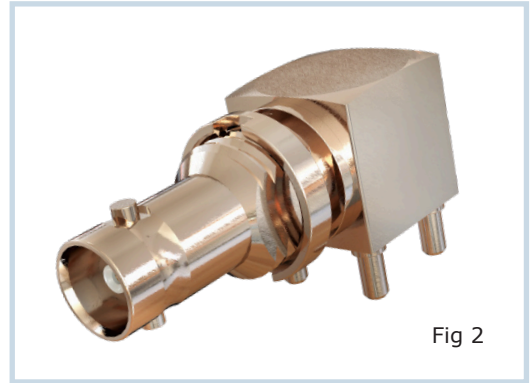
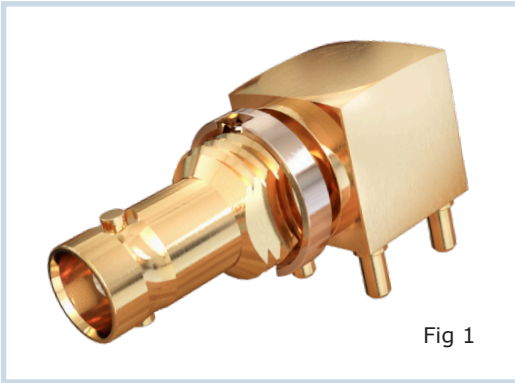
Part Number	Fig	Description	Crimp Die (mm)
HD02-0179-C06-Z ‡	■ 1	Crimp Bulkhead Jack, Nickel Plated, RG179, Belden RG179DT, 12G-SDI-179D	3.25 / 1.07
HD02-0179-C01-Z	■ -	Crimp Bulkhead Jack, Gold Plated, RG179, Belden RG179DT, 12G-SDI-179D	3.25 / 1.07
HD02-4855-C06-Z	■ 2	Crimp Bulkhead Jack, Nickel Plated, Belden 1855A, 4855R	4.52 / 1.07
HD02-10-MD06-Z ‡	■ 2	Isolated Bulkhead Jack to Jack Adaptor	

‡ Preferred stock item

- Image not shown

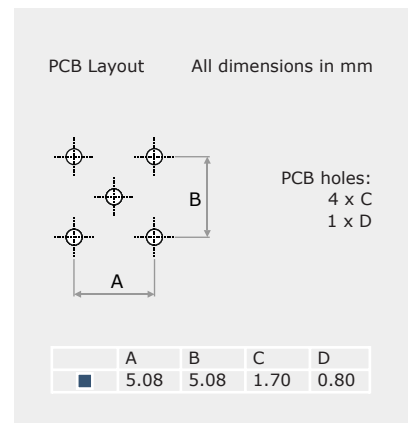
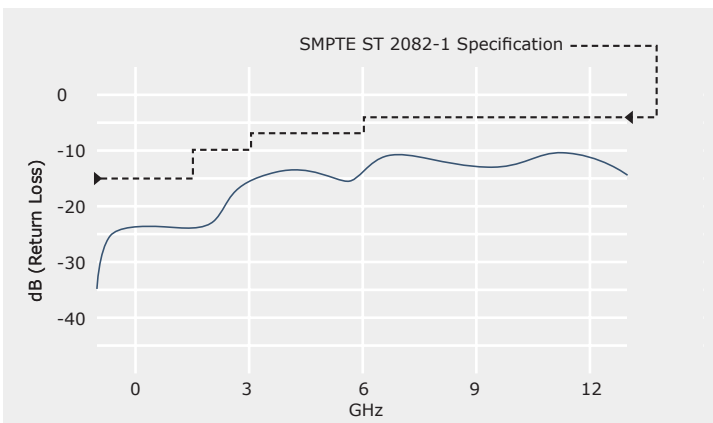
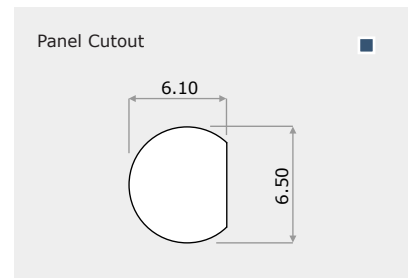


HD BNC PCB Mount Right Angle Jacks

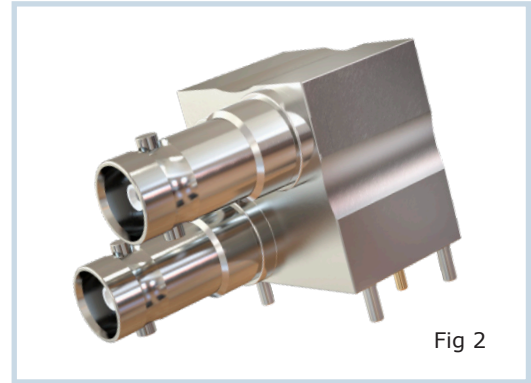
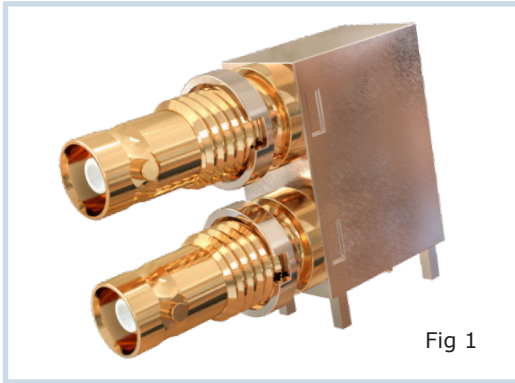


Part Number	Fig	Description
HD02-X600-N01-Z	1	HD BNC Right Angle PCB Mount Bulkhead Jack, Gold Plated
HD02-X600-N06-Z ‡	2	HD BNC Right Angle PCB Mount Bulkhead Jack, Nickel Plated

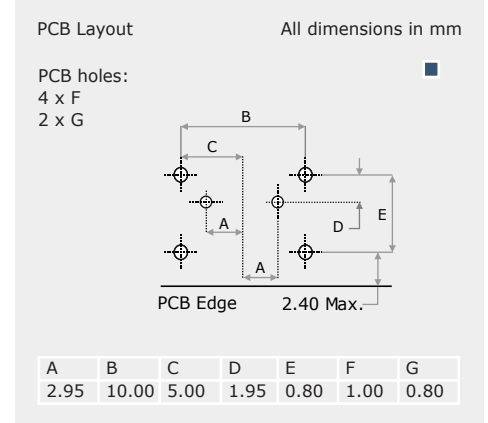
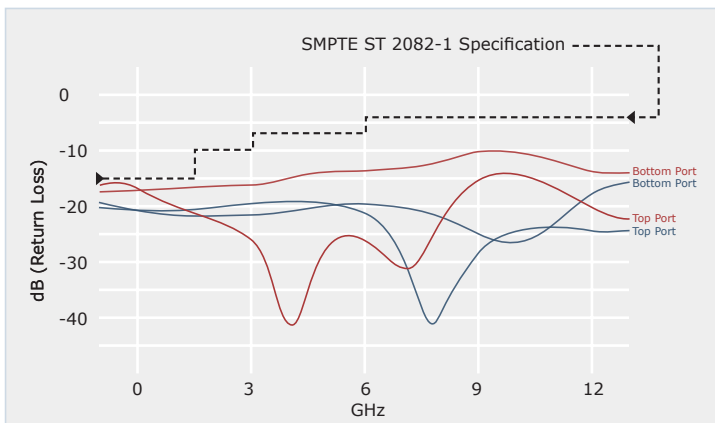
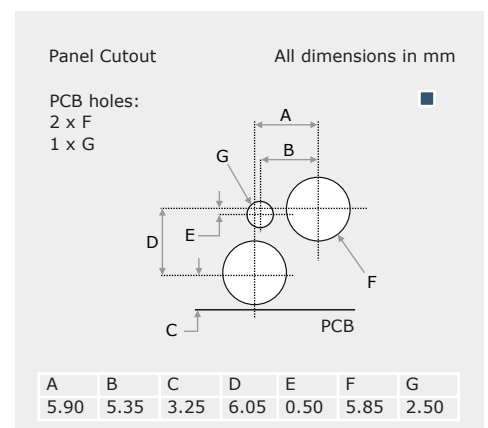
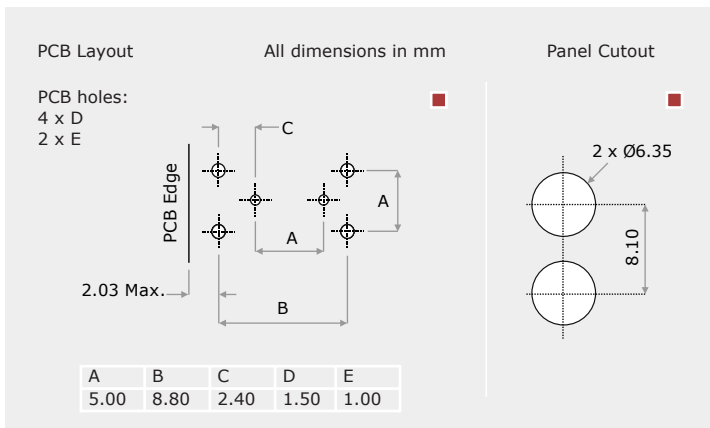
‡ Preferred stock item



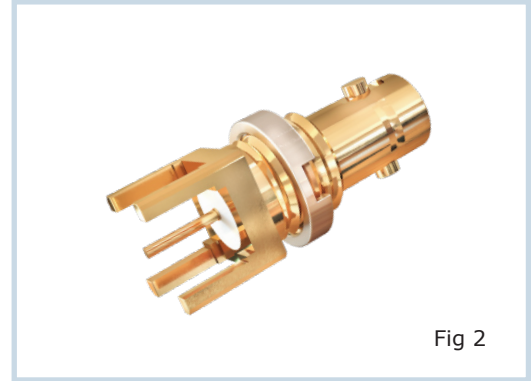
HD BNC PCB Mount Right Angle Jacks - Dual Port



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



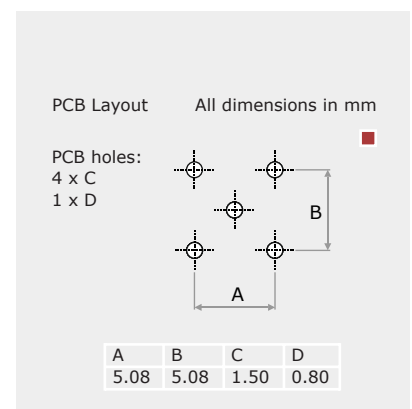
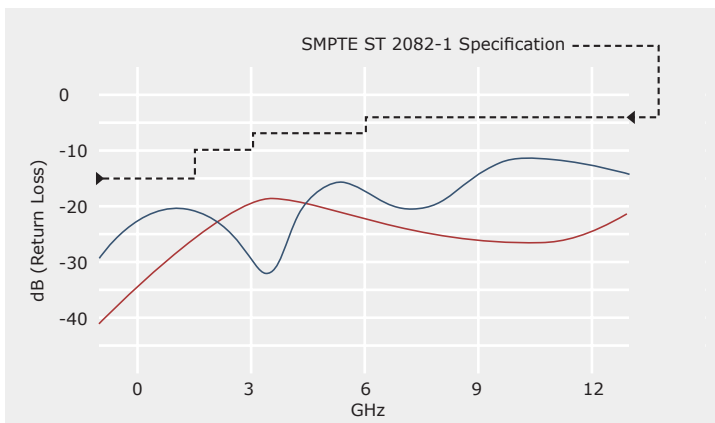
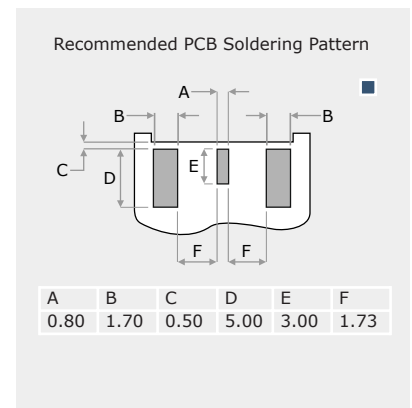
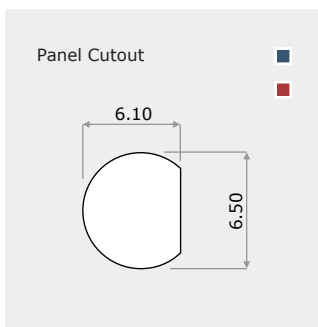
HD BNC End Launch Jacks and Vertical PCB Jacks



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

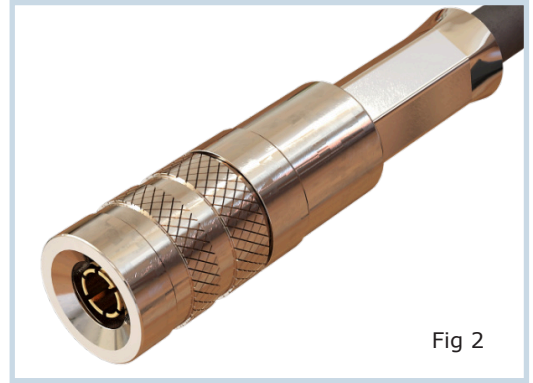
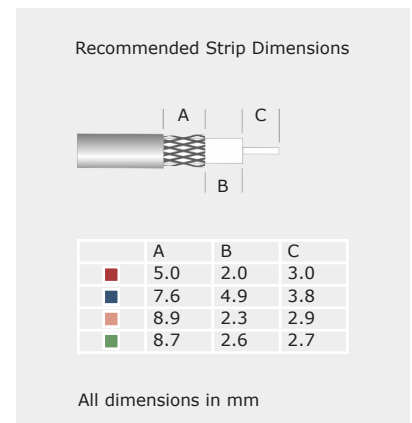
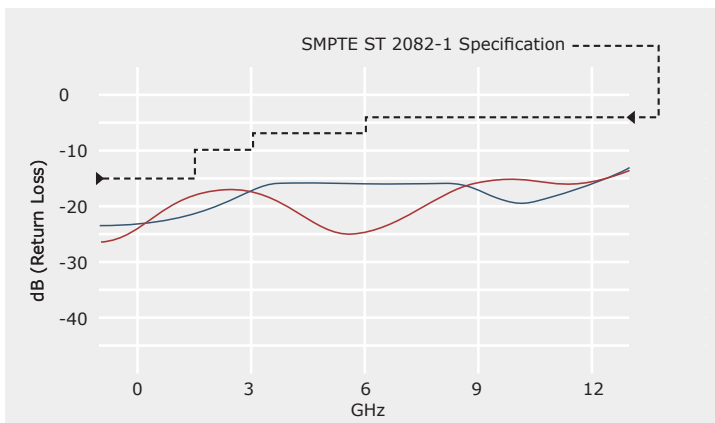


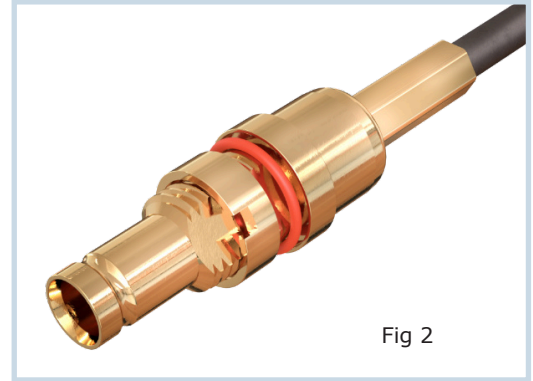
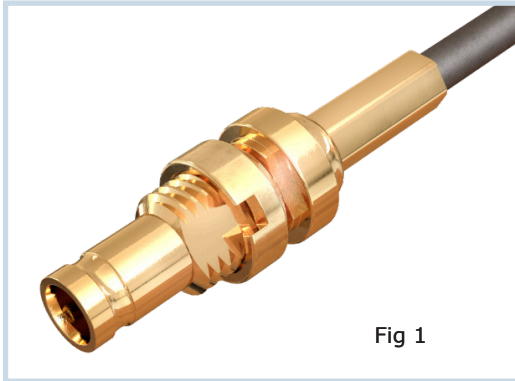
Fig 2

Part Number	Fig	Description	Crimp Die (mm)
2315-0179-C06-Z	■ 1	Crimp Plug, RG179, Belden RG179DT, 12G-SDI-179D	3.25 / 0.72 sq.
2315-0628-C06-Z	■ 2	Crimp Plug, Belden 1855A, 4855R, 1855ENH, 12G-SDI-M59	4.52 / 1.07 sq.
2315-3300-C06X-Z	■ -	Crimp Plug, Ball Lock Coupling Nut, Canare L-3.3CUHD	5.87 / 1.16
2315-4855-C06X-Z	■ -	Crimp Plug, Ball Lock Coupling Nut, Belden 4855R, Canare L-2.5CH, 12G-SDI-M59	4.52 / 1.07 sq.

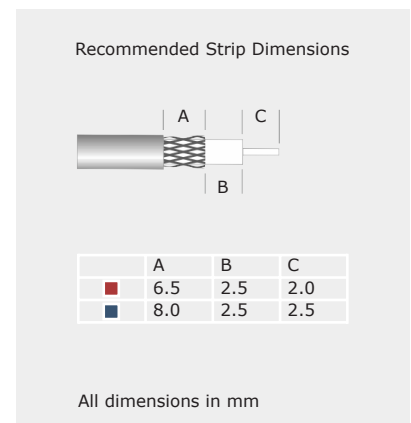
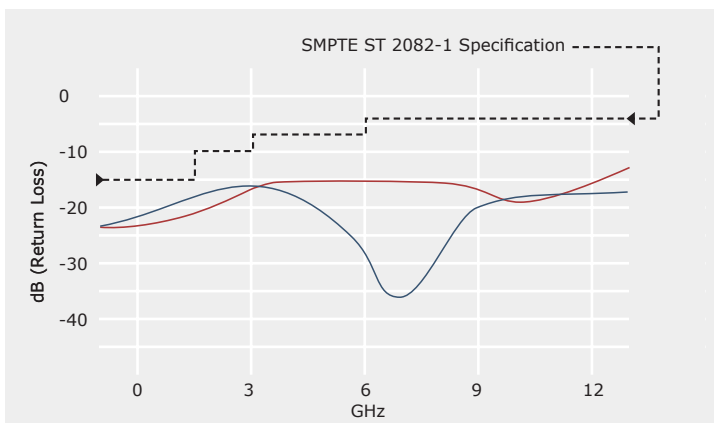
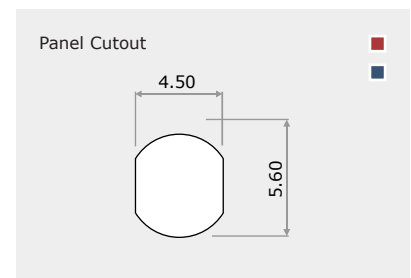
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DIN 1.0/2.3 Crimp Bulkhead Jacks



Part Number	Fig	Description	Crimp Die (mm)
2302-0179-C01	■ 1	Crimp Bulkhead Jack, RG179, Belden RG179DT, 12G-SDI-179D	3.25 / 0.72
2302-0179-C01WP	■ 2	Crimp Bulkhead Jack, Waterproof IP68, RG179, Belden RG179DT, 12G-SDI-179D	3.25 / Solder



BNC and HD BNC Cable Assemblies



Part Number	Fig	Description
7PX1B7PX1BB150-200	1	BNC Plug to BNC Plug, 12G-SDI-59, 200mm
7PX1B7PX1BB169-200	1	BNC Plug to BNC Plug, 12G-SDI-6, 200mm
7PX1B7PX1BB485-200	1	BNC Plug to BNC Plug, 12G-SDI-M59, 200mm
Z1CPBZ1CPBB150-200	2	HD BNC Plug to HD BNC Plug, 12G-SDI-59, 200mm
Z1CPBZ1CPBB169-200	2	HD BNC Plug to HD BNC Plug, 12G-SDI-6, 200mm
Z1CPBZ1CPBB485-200	2	HD BNC Plug to HD BNC Plug, 12G-SDI-M59, 200mm
7PX1BZ1CPBB150-200	3	BNC Plug to HD BNC Plug, 12G-SDI-59, 200mm
7PX1BZ1CPBB169-200	3	BNC Plug to HD BNC Plug, 12G-SDI-6, 200mm
7PX1BZ1CPBB485-200	3	BNC Plug to HD BNC Plug, 12G-SDI-M59, 200mm
7JX1BZ1CPBB150-200	4	BNC Jack to HD BNC Plug, 12G-SDI-59, 200mm
7JX1BZ1CPBB169-200	4	BNC Jack to HD BNC Plug, 12G-SDI-6, 200mm
7JX1BZ1CPBB485-200	4	BNC Jack to HD BNC Plug, 12G-SDI-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

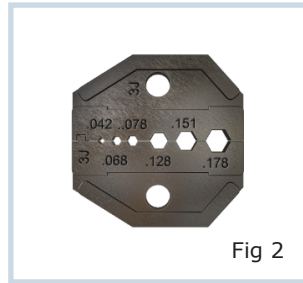


Fig 2



Fig 3



Fig 4

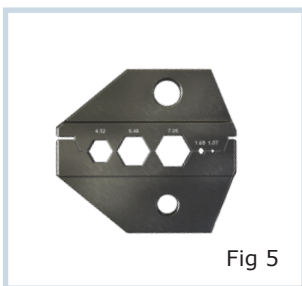


Fig 5



Fig 6



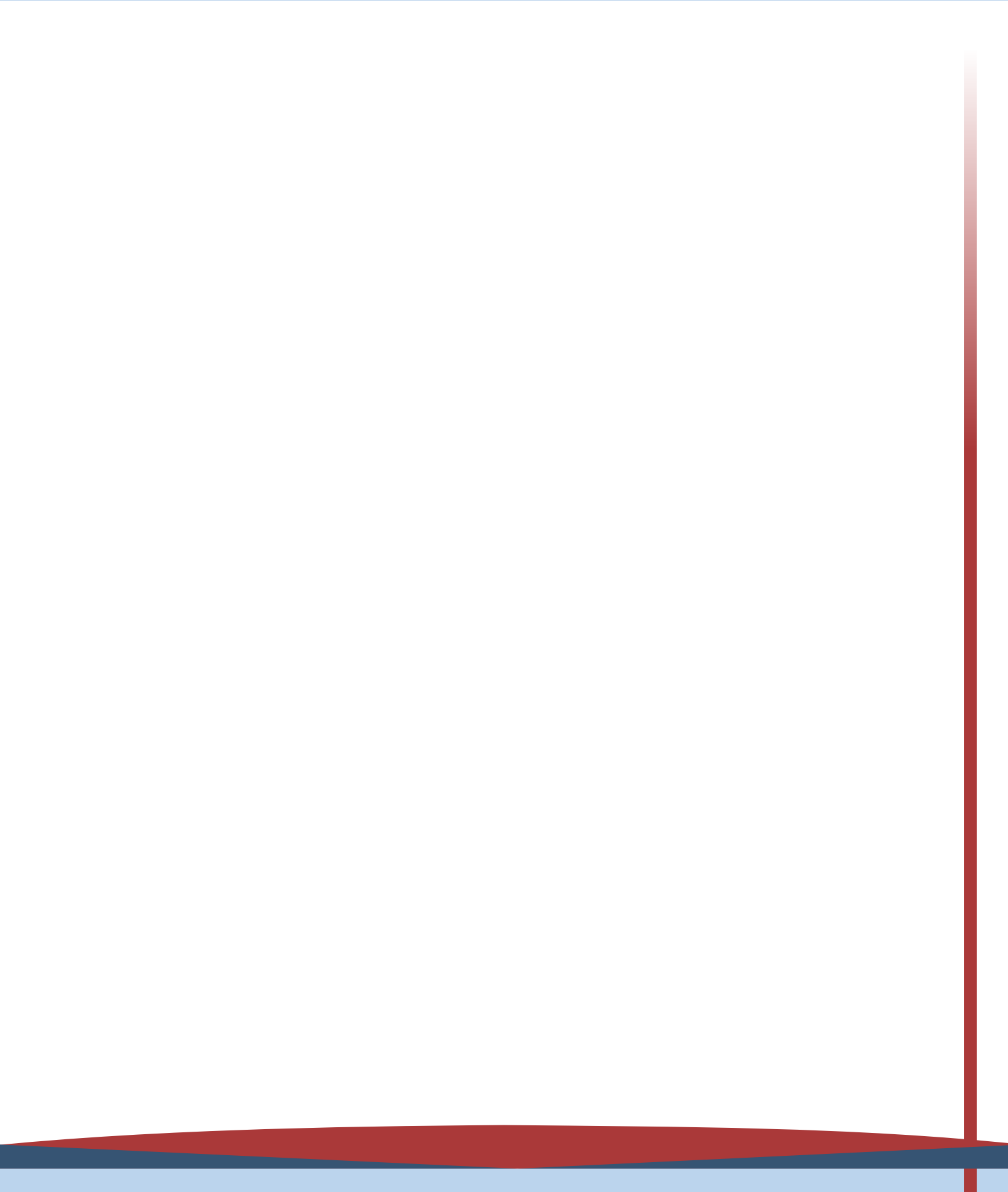
Fig 7



Fig 8

Part Number	Fig	Description
GCT-0436	1	Precision Ratchet Crimp Tool - Frame Only
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.)
GCT-0436-003J	3	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
GCT-4165	4	Precision Ratchet Crimp Tool - Frame Only
GDS-5549	-	Die Set for GCT-4165 - 5.41mm, 4.52mm, 3.25mm, 1.69mm (hex.) / 1.07mm, 0.72mm (sq.)
GDS-5550	5	Die Set for GCT-4165 - 7.06mm, 6.48mm, 4.52mm, 1.69mm (hex.) / 1.07mm (sq.)
GCT-4165-5549	-	GCT-4165 Crimp Tool plus 5549 Die Set
GCT-4165-5550	6	GCT-4165 Crimp Tool plus 5550 Die Set
GST-0322	7	3-Blade Coax Cable Stripper
GT-0628	8	HDBNC Mounting Tool

- Image Not Shown



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