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Search Results for: Right Angle Crimp/Solder Plug - Standard Cable

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Part Number: 112595

Family/Series: BNC Coaxial Connectors

Product Type: RIGHT ANGLE PLUG
CRIMP ATTACHMENTS FOR FLEXIBLE
CABLE

Description: Right Angle Crimp/Solder
Plug - Standard Cable
Brass Shell

Cable: 214/225 **

Cable Group: 07A

Finish: Nickel

Insulation: Teflon

Impedance: 50 ohms

Crimp Tool: [D](#)

Remark: Cable Center Conductor
Solder to pin directly

* Center contact .053" diameter,
30μ" Au. True 75 ohm. Use .044 hex
or 12-indent crimp

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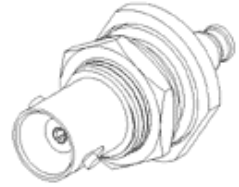
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BNC connector series

[Features & Benefits](#) | [Applications](#) | [50 Ω BNC Specs](#) | [75 Ω BNC Specs](#) | [Reverse Polarity Specs](#) | [Assembly Instructions](#)

Developed in the late 1940's as a miniature version of the Type C connector, BNC stands for Bayonet Neill Concelman and is named after Amphenol engineer Carl Concelman. The BNC product line is a miniature quick connect/disconnect RF connector. It features two bayonet lugs on the female connector; mating is achieved with only a quarter turn of the coupling nut. BNC's are ideally suited for cable termination for miniature to subminiature coaxial cable (RG-58, 59, to RG-179, RG-316, etc.)



Amphenol 50 Ω BNC connectors are miniature, lightweight units designed to operate up to 11 GHz and typically yield low reflection through 4 GHz. Designed to accommodate a large variety of RG and industry standard cables, BNC connectors are available in crimp/crimp, clamp/solder, SURETWIST®, and field serviceable termination styles. A full line of printed circuit board receptacles, bulkhead receptacles, resistor terminations, and other accessories complement the product offering.

A variety of our 50 Ω BNC connectors are recognized under the Component program of Underwriter's Laboratories, Inc. These connectors are ideal for use with medical equipment and test instrumentation where safety cannot be compromised.

Amphenol also offers a full line of 75 Ω BNC connectors to meet the needs for higher performance impedance-matched cable interconnections. These connectors can be used in a variety of applications where true 75 Ω performance is needed to insure low signal distortion. Designed for the most popular 75 Ω cables used in broadcast and CATV applications as well as for plenum and other cables, these connectors feature crimp-crimp cable affixment for quick and reliable installation.

Two distinct types of 75 Ω BNCs are available, and both mate with each other and with 50 Ω BNCs. Type 1 is designated 75 Ω BNC-T1 and provides constant 75 Ω performance with low VSWR DC – 4 GHz. Type 2 is designated 75 Ω BNC-T2 and is usable with low reflection DC - 1 GHz. For applications above 1 GHz, Type 1 is recommended.

Part numbers that are listed with the appropriate M39012 number are military grade connectors produced in accordance with and actively qualified to the military specification MIL-C-39012. Connectors not listed with the M39012 number constitute the industrial grade product offering. These connectors provide comparable performance and generally feature nickel-plated brass bodies, Teflon insulators, and either gold or silver-plated center contacts. Amphenol's commercial grade connector offering carries the part number designation "RFX" for easy recognition. These low-cost connectors typically utilize die cast and molded components. While performance will not be equal to the industrial or military grade products, these connectors are ideal for use on a variety of commercial applications.

Reverse Polarity BNCs are also available. Reverse polarity is a keying system accomplished with a reverse interface, and ensures that reverse polarity interface connectors do not mate with standard interface connectors. Amphenol accomplishes this by inserting female contacts into plugs and male contacts into jacks. Other manufacturers may use reverse threading to accomplish reverse polarity keying.

BNC Coaxial Connectors

PLUG CRIMP ATTACHMENTS FOR FLEXIBLE CABLE

- [Straight Crimp Plug - Captive Contact - Standard Cable](#)
- [Straight Solder Plug - Semi-Rigid Cable](#)
- [Straight Crimp Plug - Captive Contact - Miniature Cable](#)
- [Straight Crimp Plug - Captive Contact - Plenum Cable](#)
- [Straight Crimp Plug - Pin-In-Pin - Miniature Cable](#)
- [Straight Crimp Plug - Miniature Cable](#)
- [Straight Crimp Plug - Single Crimp](#)

RIGHT ANGLE PLUG CRIMP ATTACHMENTS FOR FLEXIBLE CABLE

- [Right Angle Crimp/Solder Plug - Standard Cable](#)
- [Right Angle Crimp/Solder Plug - Plenum Cable](#)
- [Right Angle Crimp/Solder Plug - Miniature Cable](#)

- [Straight PCB Mount Jack - Three Legs](#)
- [Straight PCB Mount Jack](#)
- [Straight PCB Mount Jack](#)
- [Straight PCB Mount Jack](#)
- [Straight PCB Edge Mount Jack - End Launch](#)
- [Bulkhead Vertical PCB Receptacle - End Launch](#)
- [Commercial Straight PCB Mount Jack](#)
- [Commercial Straight PCB Mount Jack — Metal Body](#)
- [Commercial Right Angle PCB Mount Jack](#)
- [Commercial Right Angle PCB Mount Jack — Metal Body](#)

BULKHEAD FEEDTHROUGH ADAPTERS

- [Jack-To-Jack Bulkhead Adapter](#)
- [Jack-To-Jack Bulkhead Adapter](#)
- [Jack-To-Jack Bulkhead Adapter](#)
- [Jack-To-Plug Bulkhead Adapter - Push-On](#)

BULKHEAD ISOLATED GROUND ADAPTERS

- [Jack-To-Jack Bulkhead - Isolated Adapter](#)
- [Jack-To-Jack Bulkhead - Isolated Adapter](#)

ADAPTERS

- [Jack-To-Jack Adapter](#)
- [Plug-To-Plug Adapter](#)
- [Right Angle Adapter - Plug-To-Jack](#)

TEE ADAPTERS

- [Tee Adapter - Jack-To-Jack-To-Jack](#)
- [Tee Adapter - Jack-To-Plug-To-Jack](#)
- [Tee Adapter - Jack-To-Plug-To-Jack](#)
- [Tee Adapter - Jack-To-Jack-To-Plug](#)

TERMINATORS

- [BNC Terminator Plug](#)
- [BNC Terminator Jack](#)

ACCESSORIES

- [BNC Male Cap & Chain](#)
- [BNC Male Shorting Cap](#)

Features & Benefits

- Bayonet coupling mechanism provides quick mating and unmating
- 50 Ω and 75 Ω impedance designs allow customers to match impedance to system requirements
- 50 Ω and 75 Ω connectors are intermateable to ensure non-destructive mating
- Three grades of connectors are available for military, industrial and commercial applications

Applications

- | | | |
|----------------------------|---------------------|--------------------|
| ■ Antennas | ■ Automotive | ■ Base Stations |
| ■ Broadcast (75 Ω) | ■ Cable Assemblies | ■ Cable Modems |
| ■ Components | ■ Computers/LANs | ■ Instrumentation |
| ■ Oscilloscopes | ■ Medical Equipment | ■ Mil-Aero |
| ■ Radios | ■ Satcom | ■ Surge Protection |
| ■ Telecom | | |

50 Ω BNC Specifications

| Electrical | |
|-----------------|-----------------------------|
| Impedance | 50 Ω nominal |
| Frequency Range | 0-4 GHz with low reflection |
| Voltage Rating | 500 volts peak |

| | |
|-----------------------------------|---|
| Dielectric Withstanding Voltage | 1,500 volts rms |
| VSWR | M39012 straight connectors: 1.3 max 0-4 GHz M39012 right angle connectores: 1.35 max 0-4 GHz |
| MIL-C-39012 Contact Resistance | Center contact: 1.5 mΩ; Outer contact: 0.2 mΩ |
| MIL-C-39012 Insulation Resistance | 5,000 MΩ |
| MIL-C 39012 Braid to Body | 0.1 milliohm |
| MIL-C-39012 RF Leakage | -55 dB min at 3 GHz |
| MIL-C-39012 Insertion Loss | 0.2 dB min at 3 GHz |
| Mechanical | |
| Mating | 2-stud bayonet coupling per M39012 |
| Braid/Jacket Cable Affixment | All crimps are hex braid; clamps are screw-thread nut and braid clamp |
| Center Conductor Cable Affixment | Crimps are crimp or solder; all other are solder only |
| Captivated Contacts | All crimps unless specified otherwise |
| Cable Retention | Crimps: 20-100 lbs; All others: 30-70 lbs |
| Material | |
| Male Contact | Brass |
| Female Contact | Beryllium copper or phosphorous bronze, silver or gold-plated |
| Other Metal Parts | Brass, nickel finish; M39012 is silver finish |
| Insulator | TFE, copolymer of styrene, glass-TFE (hermetically sealed) |
| Crimp Ferrule | Copper/brass |
| Environmental | |
| Temperature Range | TFE insulators: - 65°C to + 165 °C Copolymer of Styrene: - 55°C to + 85°C |
| Weatherproof | Clamps with clamp gaskets; crimps with heat-shrink tubing |
| Mermetic Seals | Pass helium leak test of 2×10^{-8} cc/second |
| Shock | MIL-STD-202 method 202 |
| Vibration | MIL-STD-202 method 202, test condition D |
| Moisture Resistance | MIL-STD-202 method 106 |
| Corrosion | MIL-STD-202 method 101, test condition B |
| Temperature Cycling | MIL-STD-202 method 102, test condition D |
| Altitude | MIL-STD-202 method 105, test condition C |
| Military | |
| MIL-C-39012 | Where applicable |

Note: These characteristics are typical but may not apply to all connectors.

75 Ω BNC Specifications

| | |
|-------------------------------------|--|
| Electrical | |
| Impedance | 75Ω nominal |
| Frequency Range | 0-4 GHz |
| Voltage Rating | 500 volts rms |
| Dielectric Withstanding Voltage | 1,500 volts rms |
| VSWR | Type 1: 1.5+0.1 f(GHz) DC to 4 GHz Type 2: 1.00+0.25 f(GHz) DC to 1 GHz |
| Mechanical | |
| Mating | 2-stud bayonet lock |
| Cable Affixment | Crimp-crimp |
| Material | |
| Body, Coupling Sleeve, Male Contact | Brass |
| Female Contact | Beryllium copper or phosphorous bronze |
| Crimp Ferrule | Copper alloy |
| Contact Plating | Gold |
| Insulator | TFE, copolymer of styrene, glass-TFE (hermetically sealed) |

| | |
|---------------------------|--|
| Other Metal Parts Plating | Nickel |
| Environmental | |
| Temperature Range | TFE insulators: - 65°C to + 165 °C Copolymer of Styrene: - 55°C to + 85°C |
| Weatherproof | Clamps with clamp gaskets; crimps with heat-shrink tubing |
| Mermetic Seals | Pass helium leak test of 2×10^{-8} cc/second |
| Shock | MIL-STD-202 method 202 |
| Vibration | MIL-STD-202 method 204, test condition D |
| Moisture Resistance | MIL-STD-202 method 106 |
| Corrosion | MIL-STD-202 method 101, test condition B |
| Temperature Cycling | MIL-STD-202 method 102, test condition D |
| Altitude | MIL-STD-202 method 105, test condition C |

Note: These characteristics are typical but may not apply to all connectors.

Reverse Polarity BNC Specifications

| | |
|----------------------------------|--|
| Electrical | |
| Impedance | 50 Ω |
| Frequency Range | 0-4 GHz |
| Voltage Rating | 500 volts peak |
| Dielectric Withstanding Voltage | 1,500 volts rms |
| VSWR | M39012 straight connectors: 1.3 max @ 0-4 GHz M39012 right angle connectors: 1.35 max @ 0-4 GHz |
| Insertion Loss | 0.18 dB @ 9 GHz |
| Insulation Resistance | $\geq 5,000$ M Ω |
| Mechanical | |
| Mating | Bayonet coupling |
| Braid/Jacket Cable Affixment | Hex crimp |
| Center Conductor Cable Affixment | Hex crimp or solder |
| Captivated Contact | Except as noted |
| Cable Retention | 20-100 lbs depending on cable |
| Material | |
| Male Cetner Contact | Brass, gold plated |
| Female Center Contact | Beryllium copper or phosphorous bronze, gold plated |
| Other Metal Parts | Brass with bright nickel finish |
| Insulators | TFE |
| Weatherproof Gaskets | Silicone rubber |
| Environmental | |
| Temperature Range | - 65°C to + 165 °C |
| Weatherproof | When mated with other Amphenol RP-BNC connectors |
| Corrosion | MIL-STD-202, method 101, test condition B |

Note: These characteristics are typical but may not apply to all connectors.

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