Amphenol[®]Connex

A New Kind of RF Solution

Products Site Tools RF Made Simple Distributors About Us News Room Contact Us Login 📜 Shopping Cart **Our Products** Search Results for: Right Angle Crimp/Solder Plug - Standard Cable _____ <u>7/16</u> Please note: Images are for reference only BNC D-Sub <u>FME</u> Part Number: 112595 Cable Group: 07A Family/Series: BNC Coaxial Connectors Finish: Nickel <u>MCX</u> Product Type: RIGHT ANGLE PLUG Insulation: Teflon MMCX CRIMP ATTACHMENTS FOR FLEXIBLE Impedance: 50 ohms <u>SMA</u> CABLE Crimp Tool: D <u>SMB</u> **Description:** Right Angle Crimp/Solder Remark: Cable Center Conductor <u>SMC</u> Plug - Standard Cable Solder to pin directly TNC Brass Shell Twin BNC Cable: 214/225 ** * Center contact .053" diameter, Type F 30µ" Au. True 75 ohm. Use .044 hex Type N or 12-indent crimp <u>UHF</u> _____ **Between-Series Adapters** Add to Cart | Product Specs | Customer Drawing **Shielded Terminations** Strain-Relief Boots Tools _____ View All Products Copyright © 2001 - 2008 Amphenol Connex. All rights reserved. Copyright | Terms & Conditions | Contact Us | Amphenol.com Products Site Tools RF Made Simple Distributors About Us News Room Contact Us Login

Our Products

<u>7/16</u>
BNC
<u>D-Sub</u>
FME
MCX
MMCX
<u>SMA</u>
<u>SMB</u>
<u>SMC</u>
TNC
Twin BNC
Type F
Type N
<u>UHF</u>
Between-Series Ad

Between-Series Adapters Shielded Terminations Strain-Relief Boots Tools

View All Products

BNC connector series

<u>Features & Benefits</u> | <u>Applications</u> | <u>50 Ω BNC Specs</u> | <u>75 Ω BNC Specs</u> | <u>Reverse Polarity Specs</u> | <u>Assembly</u> <u>Instructions</u>

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.)



📜 Shopping Cart

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 FC	OR 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
- **\blacksquare** 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
- Broadcast (75 Ω)
- Components
- Oscilloscopes
- Radios
- Telecom

Automotive

- Cable Assemblies
- Computers/LANs
- Medical Equipment
- Satcom

- Base Stations
- Cable Modems
- Instrumentation
- Mil-Aero
- Surge Protection

50 Ω BNC Specifications

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

YSWR M39012 straight connectors: 1.3 max 0-4 GHz M3012 right angle connectors: 1.35 max 0-4 GHz MLC-39012 Contact Resistance For Control of the contact: 1.5 mΩ, Outer contact: 0.2 mΩ ML-C-39012 Insulation Resistance ML-C-39012 Insulation Resistance ML-C-39012 Insulation Resistance ML-C-39012 Insertion Loss 0.2 dB min at 3 GHz ML-C-39012 Insertion Loss 0.2 dB min at 3 GHz Mating 2-stud bayonet coupling per M39012 Material All crimps are crimp or solder; all other are solder only 2aptivated Contacts All crimps unless specified otherwise Calable Retention Crimps: 20-100 lbs; All others: 30-70 lbs Material Ale Contact Brass Fermale Contact Beryllium copper or phosphorous bronze, silver or gold-plated Dyner/brass Coopolymer of Styrene; - 55°C to + 85°C Coopolymer of Styrene; - 55°C to + 85°C Coopolymer of Styrene; - 55°C	Dielectric Withstanding Voltage	1,500 volts rms
AlL-C-39012 Insulation Resistance Center contact: 1.5 mΩ; Outer contact: 0.2 mΩ AlL-C-39012 Insulation Resistance 5,000 MΩ AlL-C-39012 Insulation Resistance 5.50 Bm in at 3 GHz AlL-C-39012 Insertion Loss 0.2 dB min at 3 GHz AlL-C-39012 Insertion Loss 0.2 dB min at 3 GHz Atating 2-stud bayonet coupling per M39012 Alt crimps are hex braid; clamps are screw-thread net and braid clamp Scate Conductor Cable Affixment Crimps are crimp or solder; all other are solder only Alterial All crimps unless specified otherwise Scable Retention Crimps: 20-100 lbs; All others: 30-70 lbs Atatrial Brass Ale Contact Brass Breinale Contact Beryllium copper or phosphorous bronze, silver or gold-plated Drime Metal Parts Brass, nickel finish; M39012 is silver finish Isulator TFE, copolymer of styrene, glass-TFE (hermetically sealed) Drime Forule Copper/brass Environmental Copolymer of Styrene: - 55°C to + 85°C Imremotic Seals Pass helium leak test of 2x10 -8 c/second Abock ML-STD-202 method 100, test condition D Abock ML-STD-202 method 101, test condition D	VSWR	M39012 straight connectors: 1.3 max 0-4 GHz
All_C-39012 Insulation Resistance 5,000 MΩ All_C-39012 Braid to Body 0.1 milliohm All_C-39012 RF Leakage -55 dB min at 3 GHz All_C-39012 Insertion Loss 0.2 dB min at 3 GHz Alting 2-stud bayonet coupling per M39012 braid/Jacket Cable Affixment All crimps are hex braid; clamps are screw-thread net and braid clamp Penter Conductor Cable Affixment All crimps are crimp or solder; all other are solder only Sable Retention Crimps: 20-100 lbs; All others: 30-70 lbs Aterial Faras Fernale Contact Brass Fernale Contact Brass, nickel finish; M39012 is silver finish nsulator TFE, copolymer of styrene, glass-TFE (hermetically sealed) Crimp Ferule Copper/brass Environmental TE insulators: -65°C to + 165 °C Copolymer of Styrene: - 55°C to + 85°C Veath-styrink tubing All-STD-202 method 202 (ibration MIL-STD-202 method 202 // bration MIL-STD-202 method 102, test condition D Molicer Resistance MIL-STD-202 method 102, test condition D Mil-STD-202 method 102, test condition C MIL-STD-202 method 105, test condition C Milex Projocial Mule STD-202 method 105, test condition C		M39012 right angle connectores: 1.35 max 0-4 GHz
AlL-C 39012 Braid to Body 0.1 milliohm ML-C-39012 RF Leakage -55 dB min at 3 GHz ML-C-39012 Insertion Loss 0.2 dB min at 3 GHz Atting 2-stud bayonet coupling per M39012 trad/Jacket Cable Affixment All crimps are hex braid; clamps are screw-thread net and braid clamp 2enter Conductor Cable Affixment Crimps unless specified otherwise 2abitvated Contacts All crimps unless specified otherwise 2abitvated Contact Brass *emale Contact Brass *emale Contact Beryllium copper or phosphorous bronze, silver or gold-plated Dther Metal Parts Brass, nickel finish, M39012 is silver finish nsulator TFE, copolymer of styrene, glass-TFE (hermetically sealed) Crimp Ferrule Copper/brass environmental Cases helium leak test of 2x10 *6 co/second Mock MIL-STD-202 method 202, test condition D Motore Resistance MIL-STD-202 method 101, test condition D Aditare MIL-STD-202 method 102, test condition D Aditare MIL-STD-202 method 102, test condition C Milestrue MIL-STD-202 method 102, test condition D Aditare Range TFG nominal Corrosion <	MIL-C-39012 Contact Resistance	
All-C-39012 RF Leakage -55 dB min at 3 GHz MIL-C-39012 Insertion Loss 0.2 dB min at 3 GHz Mechanical All crimps are has braid; clamps are screw-thread net and braid clamp Vertex Conductor Cable Affixment All crimps are has braid; clamps are screw-thread net and braid clamp Senter Conductor Cable Affixment Crimps are crimp or solder; all other are solder only Applicated Contacts All crimps unless specified otherwise Cable Retention Crimps: 20-100 lbs; All others; 30-70 lbs Alterial Male Contact Berss Berass Female Contact Berss, nickel finish, M39012 is silver finish nsulator TFE, copolymer of styrene, glass-TFE (hermetically sealed) Drime Ferule Copper/brass Environmental TFE insulators: - 65°C to + 165 °C Evernetic Seals Pass helium leak test of 2x10 -8 c/second Shock MIL-STD-202 method 202 I/bration MIL-STD-202 method 202 I/bration MIL-STD-202 method 106 Corrosion MIL-STD-202 method 102, test condition D Moisture Resistance MIL-STD-202 method 105, test condition C Miltary MIL-STD-202 method 105, test condition C Milt	MIL-C-39012 Insulation Resistance	5,000 ΜΩ
AlL-C-39012 Insertion Loss 0.2 dB min at 3 GHz Alechanical Alaring 2-stud bayonet coupling per M39012 Arating 2-stud bayonet coupling per M39012 Valid Clamp All crimps are hex braid; clamps are screw-thread net and braid clamp Center Conductor Cable Affixment All crimps are crimp or solder; all other are solder only Saptivated Contacts All crimps unless specified otherwise Cable Retention Crimps: 20-100 lbs; All others: 30-70 lbs Alterial Brass Alle Contact Brass Beryllium copper or phosphorous bronze, silver or gold-plated Dither Metal Parts Brass, nickel finish; M39012 is silver finish Insulator TFE, copolymer of styrene, glass-TFE (hermetically sealed) Crimp Ferrule Copper/brass Environmental TFE insulators: - 65°C to + 165 °C Parsh helium leak test of 2x10 - ^a cc/second MlL-STD-202 method 202, test condition D Aleisture Resistance MIL-STD-202 method 102 Vibration MIL-STD-202 method 102, test condition D Aloisture Resistance MIL-STD-202 method 104, test condition C Aller MIL-STD-202 method 105, test condition C <	MIL-C 39012 Braid to Body	0.1 milliohm
Interview Interview Atting 2-stud bayonet coupling per M39012 Atting 2-stud bayonet coupling per M39012 Atting All crimps are hex braid; clamps are screw-thread net and braid clamp Center Conductor Cable Affixment Crimps are crimp or solder; all other are solder only Zaptivated Contacts All crimps unless specified otherwise Zable Retention Crimps: 20-100 lbs; All others: 30-70 lbs Atterial Brass Genale Contact Berss Fernale Contact Berss, nickel finish; M39012 is silver finish Insulator TFE, copolymer of styrene, glass-TFE (hermetically sealed) Crimp Ferrule Copper/brass Environmental Ference Fermetrature Range TFE insulators: - 65°C to + 165 °C Copolymer of Styrene: - 55°C to + 85°C Copolymer of Styrene: - 55°C to + 85°C Veatherproof Clamps with clamp gaskets; crimps with heat-shrink tubing Alerretic Seals Pass helium leak test of 2x10 - 8 cc/second Abook MIL-STD-202 method 202 //bration MIL-STD-202 method 106 Corrosion MIL-STD-202 method 106, test condition D <tr< td=""><td>MIL-C-39012 RF Leakage</td><td>-55 dB min at 3 GHz</td></tr<>	MIL-C-39012 RF Leakage	-55 dB min at 3 GHz
Alting 2-stud bayonet coupling per M39012 straid/Jacket Cable Affixment All crimps are hex braid; clamps are screw-thread net and braid clamp Penter Conductor Cable Affixment All 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 Male Contact Brass Fernale Contact Beryllium copper or phosphorous bronze, silver or gold-plated Dther Metal Parts Brass, nickel finish; M39012 is silver finish nsulator TFE, copolymer of styrene, glass-TFE (hermetically sealed) Crimp Ferrule Copper/brass Environmental TFE insulators: - 65°C to + 165 °C Gopolymer of Styrene: - 55°C to + 85°C Veatherproof Clamps with clamp gaskets; crimps with heat-shrink tubing Mermetic Seals Pass helium leak test of 2x10 -8 c/second MIL-STD-202 method 202 //ibration MIL-STD-202 method 106 Corrosion MIL-STD-202 method 101, test condition D Miltary MIL-STD-202 method 106, test condition C Millary MIL-G-39012 Where applicable oit: These characteristics are	MIL-C-39012 Insertion Loss	0.2 dB min at 3 GHz
All crimps are hex braid; clamps are screw-thread net and braid clamp Center Conductor Cable Affixment Crimps are crimp or solder; all other are solder only Zaptivated Contacts All crimps unless specified otherwise Cable Retention Crimps: 20-100 lbs; All others: 30-70 lbs Material Alae Contact Alae Contact Brass Female Contact Beryllium copper or phosphorous bronze, silver or gold-plated Dither Metal Parts Brass, nickel finish; M39012 is silver finish nsulator TFE, copolymer of styrene, glass-TFE (hermetically sealed) Orimp Ferrule Copper/brass environmental Copolymer of Styrene: - 65°C to + 165 °C Copolymer of Styrene: - 55°C to + 85°C Veatherproof Clamps with clamp gaskets; crimps with heat-shrink tubing MIL-STD-202 method 202 Abisture Resistance MIL-STD-202 method 202, test condition D Aloisture Resistance MIL-STD-202 method 101, test condition B Corposion MIL-STD-202 method 102, test condition D Milt-STD-202 method 104, test condition D Milters Corposion MIL-STD-202 method 105, test condition C Miltary MIL-GC-39012 Where applicable ote: These characteristics are	Mechanical	
clamp 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 Material Male Contact Brass Fernale Contact Beryllium copper or phosphorous bronze, silver or gold-plated Dther Metal Parts Brass, nickel finish; M39012 is silver finish nsulator TFE, copolymer of styrene, glass-TFE (hermetically sealed) Crimp Ferrule Copper/brass Environmental Cropolymer of Styrene: - 55°C to + 85°C Veatherproof Clamps with clamp gaskets; crimps with heat-shrink tubing Armetic Seals Pass helium leak test of 2x10 -8 cc/second Mook MIL-STD-202 method 202 //ibration MIL-STD-202 method 101, test condition D Moisture Resistance MIL-STD-202 method 102, test condition D Corrosion MIL-STD-202 method 102, test condition D Vittude MIL-STD-202 method 105, test condition D Vittude MIL-STD-202 method 105, test condition C MIL-C-39012 Where applicable	Mating	2-stud bayonet coupling per M39012
Captivated Contacts All crimps unless specified otherwise Cable Retention Crimps: 20-100 lbs; All others: 30-70 lbs Aterial 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) Orimp Ferrule Copper/brass Environmental Copolymer of Styrene: - 55°C to + 85°C Veatherproof Clamps with clamp gaskets; crimps with heat-shrink tubing Alerentic Seals Pass helium leak test of 2x10 -8 cc/second Shock MIL-STD-202 method 202 fibration MIL-STD-202 method 106 Corrosion MIL-STD-202 method 106 Corrosion MIL-STD-202 method 101, test condition D Mittude MIL-STD-202 method 102, test condition D Mittude MIL-STD-202 method 101, test condition D Mittude MIL-STD-202 method 102, test condition D Mittude MIL-STD-202 method 101, test condition D Mittude MIL-STD-202 method 105, test condition C MIL-STD-202 method 101, test condition C MIL-STD-202 method 102, test condition C	Braid/Jacket Cable Affixment	
Crimps: 20-100 lbs; All others: 30-70 lbs Material Brass Fernale Contact Brass, nickel finish; M39012 is silver finish Diversity Brass, nickel finish; M39012 is silver finish Insulator TFE, copolymer of styrene, glass-TFE (hermetically sealed) Crimp Ferrule Copper/brass Environmental Coppolymer of styrene; -55°C to + 165°C Ceatherproof Clamps with clamp gaskets; crimps with heat-shrink tubing Armentic Seals Pass helium leak test of 2x10 -8 cc/second Shock MIL-STD-202 method 202 //ibration MIL-STD-202 method 106 Corrosion MIL-STD-202 method 101, test condition D MIL-STD-202 method 101, test condition D MIL-STD-202 method 105, test condition C MIL-STD-202 method 101, test condition C MIL-STD-202 method 105, test condition	Center Conductor Cable Affixment	Crimps are crimp or solder; all other are solder only
Material Male Contact Brass remale Contact Beryllium copper or phosphorous bronze, silver or gold-plated Wher Metal Parts Brass, nickel finish; M39012 is silver finish nsulator TFE, copolymer of styrene, glass-TFE (hermetically sealed) Crimp Ferrule Copper/brass Environmental TFE insulators: - 65°C to + 165 °C Copolymer of Styrene: - 55°C to + 85°C Veatherproof Clamps with clamp gaskets; crimps with heat-shrink tubing Aermetic Seals Pass helium leak test of 2x10 -8 cc/second Shock MIL-STD-202 method 202 //ibration MIL-STD-202 method 106 Corrosion MIL-STD-202 method 101, test condition D Adisture Resistance MIL-STD-202 method 101, test condition D Vibratue MIL-STD-202 method 105, test condition D Adisture Resistance MIL-STD-202 method 105, test condition D Vibratue MIL-STD-202 method 105, test condition D Adisture Resistance MIL-STD-202 method 105, test condition C Miltery MIL-STD-202 method 105, test condition C MIL-C-39012 Where applicable ote: These characteristics are typical but may not apply to all connectors. <td< td=""><td>Captivated Contacts</td><td>All crimps unless specified otherwise</td></td<>	Captivated Contacts	All crimps unless specified otherwise
Ale Contact Brass Female Contact Beryllium copper or phosphorous bronze, silver or gold-plated Dther Metal Parts Brass, nickel finish; M39012 is silver finish nsulator TFE, copolymer of styrene, glass-TFE (hermetically sealed) Crimp Ferrule Copper/brass Environmental TFE insulators: - 65°C to + 165 °C Copolymer of Styrene: - 55°C to + 85°C Veatherproof Clamps with clamp gaskets; crimps with heat-shrink tubing Aermetic Seals Pass helium leak test of 2x10 -8 cc/second Shock MIL-STD-202 method 202 Ibration MIL-STD-202 method 106 Corrosion MIL-STD-202 method 106 Corrosion MIL-STD-202 method 106, test condition D Vittude MIL-STD-202 method 105, test condition D Vittude MIL-STD-202 method 105, test condition D Vittude MIL-STD-202 method 105, test condition C Attilde MIL-STD-202 method 105, test condition C MIL-C-39012 Where applicable ote: These characteristics are typical but may not apply to all connectors. SD BNC Specifications Electrical mpedance 7	Cable Retention	Crimps: 20-100 lbs; All others: 30-70 lbs
Ale Contact Brass Female Contact Beryllium copper or phosphorous bronze, silver or gold-plated Dther Metal Parts Brass, nickel finish; M39012 is silver finish nsulator TFE, copolymer of styrene, glass-TFE (hermetically sealed) Crimp Ferrule Copper/brass Environmental TFE insulators: - 65°C to + 165 °C Copolymer of Styrene: - 55°C to + 85°C Veatherproof Clamps with clamp gaskets; crimps with heat-shrink tubing Mermetic Seals Pass helium leak test of 2x10 *8 cc/second Shock MIL-STD-202 method 202 Ibration MIL-STD-202 method 106 Corrosion MIL-STD-202 method 106 Corrosion MIL-STD-202 method 106, test condition D Mile-STD-202 method 102, test condition D Milesture Cycling MIL-STD-202 method 105, test condition D Milesture Cycling MIL-STD-202 method 105, test condition C Milesture Cycling Mile-STD-202 method 105, test condition C Milesture Cycling MIL-C-39012 Where applicable Otest condition C Otest These characteristics are typical but may not apply to all connectors. S Ω BNC Specifications Electrical <td>Metavial</td> <td></td>	Metavial	
Fermale Contact Beryllium copper or phosphorous bronze, silver or gold-plated Dther Metal Parts Brass, nickel finish; M39012 is silver finish Insulator TFE, copolymer of styrene, glass-TFE (hermetically sealed) Crimp Ferrule Copper/brass Environmental Image: Copolymer of Styrene; - 55°C to + 165 °C Copolymer of Styrene; - 55°C to + 85°C Veatherproof Clamps with clamp gaskets; crimps with heat-shrink tubing Aremetic Seals Pass helium leak test of 2x10 -8 cc/second Shock MIL-STD-202 method 202 //ibration MIL-STD-202 method 202, test condition D Moisture Resistance MIL-STD-202 method 106 Corrosion MIL-STD-202 method 102, test condition D Miltude MIL-STD-202 method 102, test condition D Vititude MIL-STD-202 method 102, test condition D Miltary MIL-STD-202 method 105, test condition C Miltary		IDroop
Dther Metal Parts Brass, nickel finish; M39012 is silver finish Insulator TFE, copolymer of styrene, glass-TFE (hermetically sealed) Crimp Ferrule Copper/brass Environmental TFE insulators: - 65°C to + 165 °C Copolymer of Styrene: - 55°C to + 85°C Veatherproof Clamps with clamp gaskets; crimps with heat-shrink tubing Aremetic Seals Pass helium leak test of 2x10 -8 cc/second Shock MIL-STD-202 method 202 //ibration MIL-STD-202 method 202, test condition D Moisture Resistance MIL-STD-202 method 106 Corrosion MIL-STD-202 method 102, test condition D Mitude MIL-STD-202 method 102, test condition D Vititude MIL-STD-202 method 102, test condition C Miltary MIL-STD-202 method 105, test condition C Miltary MIL-C-39012 Where		
nsulator TFE, copolymer of styrene, glass-TFE (hermetically sealed) Crimp Ferrule Copper/brass invironmental TFE insulators: - 65°C to + 165 °C Yeatherproof Clamps with clamp gaskets; crimps with heat-shrink tubing Aermetic Seals Pass helium leak test of 2x10 -8 cc/second Shock MIL-STD-202 method 202 //ibration MIL-STD-202 method 202, test condition D Moisture Resistance MIL-STD-202 method 106 Corrosion MIL-STD-202 method 102, test condition D Anisture Resistance MIL-STD-202 method 102, test condition D Anisture Resistance MIL-STD-202 method 105, test condition D Anisture Resistance MIL-STD-202 method 105, test condition D Anil-C-39012 Where applicable ote: These characteristics are typical but may not apply to all connectors. 5 Ω BNC Specifications Electrical mpedance 75Ω nominal Grequency 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		
Crimp Ferrule Copper/brass Environmental TFE insulators: - 65°C to + 165 °C Copolymer of Styrene: - 55°C to + 85°C Veatherproof Clamps with clamp gaskets; crimps with heat-shrink tubing Aermetic Seals Pass helium leak test of 2x10 ⁻⁸ cc/second Shock MIL-STD-202 method 202 //ibration MIL-STD-202 method 202 //ibration MIL-STD-202 method 106 Corrosion MIL-STD-202 method 106, test condition D Advisure Resistance MIL-STD-202 method 102, test condition D Advisure Resistance MIL-STD-202 method 105, test condition C Advisure Resistance Milancon		
invironmental TFE insulators: - 65°C to + 165 °C Copolymer of Styrene: - 55°C to + 85°C Veatherproof Clamps with clamp gaskets; crimps with heat-shrink tubing Mermetic Seals Pass helium leak test of 2x10 -8 cc/second Shock MIL-STD-202 method 202 (/ibration MIL-STD-202 method 202, test condition D Moisture Resistance MIL-STD-202 method 106 Corrosion MIL-STD-202 method 106, test condition B remperature Cycling MIL-STD-202 method 102, test condition D Altitude MIL-STD-202 method 105, test condition D Altitude MIL-STD-202 method 105, test condition C MIL-C-30012 Where applicable ote: These characteristics are typical but may not apply to all connectors. 5 Ω BNC Specifications Electrical mpedance 75 Ω nominal frequency Range 0-4 GHz Voltage Rating 500 volts rms Dielectric Withstanding Voltage 1,500 volts rms View 2: 1.00+0.25 f(GHz) DC to 1 GHz		
TFE insulators: - 65°C to + 165 °C Copolymer of Styrene: - 55°C to + 85°C Veatherproof Clamps with clamp gaskets; crimps with heat-shrink tubing Aermetic Seals Pass helium leak test of 2x10 -8 cc/second Shock MIL-STD-202 method 202 //ibration MIL-STD-202 method 202, test condition D Aoisture Resistance MIL-STD-202 method 106 Corrosion MIL-STD-202 method 102, test condition B Temperature Cycling MIL-STD-202 method 102, test condition D Altitude MIL-STD-202 method 105, test condition C Stope characteristics are typical but may not apply to all connectors. So 20 So 20 Conteres <td></td> <td></td>		
Copolymer of Styrene: - 55° C to + 85° CVeatherproofClamps with clamp gaskets; crimps with heat-shrink tubingMermetic SealsPass helium leak test of $2x10^{-8}$ cc/secondShockMIL-STD-202 method 202//ibrationMIL-STD-202 method 202, test condition DMoisture ResistanceMIL-STD-202 method 106CorrosionMIL-STD-202 method 101, test condition B***********************************	Environmental	
Veatherproof Clamps with clamp gaskets; crimps with heat-shrink tubing Aermetic Seals Pass helium leak test of 2x10 ⁻⁸ cc/second Shock MIL-STD-202 method 202 /ibration MIL-STD-202 method 202, test condition D Aoisture 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 D Altitude MIL-STD-202 method 105, test condition C Altistrasplane <td>Temperature Range</td> <td></td>	Temperature Range	
Allocation of the analysis of the allocation of the allocatis of the allocation of the allocation of the allocation of the a	Weatherproof	
/ibration MIL-STD-202 method 202, test condition D Moisture Resistance MIL-STD-202 method 106 Corrosion MIL-STD-202 method 101, test condition B remperature Cycling MIL-STD-202 method 102, test condition D Mitude MIL-STD-202 method 105, test condition C Alilitary MIL-STD-202 method 105, test condition C Alilery MIL-C-39012 Where applicable ote: These characteristics are typical but may not apply to all connectors. 5 Ω BNC Specifications Electrical mpedance 75Ω nominal Frequency Range 0-4 GHz Voltage Rating 500 volts rms Dielectric Withstanding Voltage 1,500 volts rms /SWR Type 1: 1.5+0.1 f(GHz) DC to 4 GHz Type 2: 1.00+0.25 f(GHz) DC to 1 GHz Type 2: 1.00+0.25 f(GHz) DC to 1 GHz	Mermetic Seals	Pass helium leak test of 2x10 -8 cc/second
Mile of D DD DD method 100, lost condition D Moisture Resistance MIL-STD-202 method 106 Corrosion MIL-STD-202 method 101, test condition D Ititude MIL-STD-202 method 102, test condition D Mitude MIL-STD-202 method 105, test condition D Miletary MIL-STD-202 method 105, test condition C Miletary MIL-C-39012 Where applicable where applicable ote: These characteristics are typical but may not apply to all connectors. 5 Ω BNC Specifications Electrical mpedance 75Ω nominal Frequency Range 0-4 GHz /oltage Rating 500 volts rms Dielectric Withstanding Voltage 1,500 volts rms /SWR Type 1: 1.5+0.1 f(GHz) DC to 4 GHz Type 2: 1.00+0.25 f(GHz) DC to 1 GHz	Shock	MIL-STD-202 method 202
Corrosion MIL-STD-202 method 101, test condition B Temperature Cycling MIL-STD-202 method 102, test condition D Miltude MIL-STD-202 method 105, test condition C Allitary MIL-C-39012 Where applicable ote: These characteristics are typical but may not apply to all connectors. 5 Ω BNC Specifications Electrical mpedance 75Ω nominal Trequency 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 Type 2: 1.00+0.25 f(GHz) DC to 1 GHz	Vibration	MIL-STD-202 method 202, test condition D
Temperature Cycling MIL-STD-202 method 102, test condition D MIL-STD-202 method 105, test condition C MIL-STD-202 method 105, test condition C MIL-C-39012 Where applicable ote: These characteristics are typical but may not apply to all connectors. 5 Ω BNC Specifications Electrical mpedance 75Ω nominal Frequency Range 0-4 GHz /oltage Rating 500 volts rms Dielectric Withstanding Voltage 1,500 volts rms /SWR Type 1: 1.5+0.1 f(GHz) DC to 4 GHz Type 2: 1.00+0.25 f(GHz) DC to 1 GHz	Moisture Resistance	MIL-STD-202 method 106
MIL-STD-202 method 105, test condition C Miltary MIL-C-39012 Where applicable ote: These characteristics are typical but may not apply to all connectors. 5 Ω BNC Specifications Electrical mpedance 75Ω nominal Frequency Range 0-4 GHz /oltage Rating 500 volts rms Dielectric Withstanding Voltage 1,500 volts rms /SWR Type 1: 1.5+0.1 f(GHz) DC to 4 GHz /SWR Type 2: 1.00+0.25 f(GHz) DC to 1 GHz	Corrosion	MIL-STD-202 method 101, test condition B
Allitary AllL-C-39012 Where applicable ote: These characteristics are typical but may not apply to all connectors. 5 Ω BNC Specifications Electrical mpedance 75Ω nominal Frequency Range 0-4 GHz /oltage Rating 500 volts rms Dielectric Withstanding Voltage 1,500 volts rms /SWR Type 1: 1.5+0.1 f(GHz) DC to 4 GHz Type 2: 1.00+0.25 f(GHz) DC to 1 GHz	Temperature Cycling	MIL-STD-202 method 102, test condition D
MIL-C-39012 Where applicable ote: These characteristics are typical but may not apply to all connectors. 5 Ω BNC Specifications Electrical mpedance 75Ω nominal Frequency Range 0-4 GHz /oltage Rating 500 volts rms Dielectric Withstanding Voltage 1,500 volts rms /SWR Type 1: 1.5+0.1 f(GHz) DC to 4 GHz Type 2: 1.00+0.25 f(GHz) DC to 1 GHz	Altitude	MIL-STD-202 method 105, test condition C
MIL-C-39012 Where applicable ote: These characteristics are typical but may not apply to all connectors. 5 Ω BNC Specifications Electrical mpedance 75Ω nominal Frequency Range 0-4 GHz /oltage Rating 500 volts rms Dielectric Withstanding Voltage 1,500 volts rms /SWR Type 1: 1.5+0.1 f(GHz) DC to 4 GHz Type 2: 1.00+0.25 f(GHz) DC to 1 GHz	Military	
ote: These characteristics are typical but may not apply to all connectors. 5 Ω BNC Specifications Electrical mpedance 75Ω nominal Frequency Range 0-4 GHz /oltage Rating 500 volts rms Dielectric Withstanding Voltage 1,500 volts rms /SWR Type 1: 1.5+0.1 f(GHz) DC to 4 GHz Type 2: 1.00+0.25 f(GHz) DC to 1 GHz	MIL-C-39012	Where applicable
5 Ω BNC Specifications Electrical mpedance 75Ω nominal Trequency Range 0-4 GHz /oltage Rating 500 volts rms Dielectric Withstanding Voltage 1,500 volts rms /SWR Type 1: 1.5+0.1 f(GHz) DC to 4 GHz Type 2: 1.00+0.25 f(GHz) DC to 1 GHz	Note: These characteristics are typic	
Electrical mpedance 75Ω nominal Frequency Range 0-4 GHz /oltage Rating 500 volts rms Dielectric Withstanding Voltage 1,500 volts rms /SWR Type 1: 1.5+0.1 f(GHz) DC to 4 GHz Type 2: 1.00+0.25 f(GHz) DC to 1 GHz		
Electrical mpedance 75Ω nominal Frequency Range 0-4 GHz /oltage Rating 500 volts rms Dielectric Withstanding Voltage 1,500 volts rms /SWR Type 1: 1.5+0.1 f(GHz) DC to 4 GHz Type 2: 1.00+0.25 f(GHz) DC to 1 GHz	75 Ω BNC Specifications	
mpedance 75Ω nominal Frequency Range 0-4 GHz /oltage Rating 500 volts rms Dielectric Withstanding Voltage 1,500 volts rms /SWR Type 1: 1.5+0.1 f(GHz) DC to 4 GHz Type 2: 1.00+0.25 f(GHz) DC to 1 GHz		
Trequency Range 0-4 GHz /oltage Rating 500 volts rms Dielectric Withstanding Voltage 1,500 volts rms /SWR Type 1: 1.5+0.1 f(GHz) DC to 4 GHz Type 2: 1.00+0.25 f(GHz) DC to 1 GHz	Electrical	
/oltage Rating 500 volts rms Dielectric Withstanding Voltage 1,500 volts rms /SWR Type 1: 1.5+0.1 f(GHz) DC to 4 GHz Type 2: 1.00+0.25 f(GHz) DC to 1 GHz	Impedance	
Dielectric Withstanding Voltage1,500 volts rms/SWRType 1: 1.5+0.1 f(GHz) DC to 4 GHzType 2: 1.00+0.25 f(GHz) DC to 1 GHz	Frequency Range	0-4 GHz
/SWR Type 1: 1.5+0.1 f(GHz) DC to 4 GHz Type 2: 1.00+0.25 f(GHz) DC to 1 GHz	Voltage Rating	
Type 2: 1.00+0.25 f(GHz) DC to 1 GHz	Dielectric Withstanding Voltage	
	VSWR	
	Mechanical	

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 2x10 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	≥ 5,000 MΩ
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

1 back to top

Copyright © 2001 - 2008 Amphenol Connex. All rights reserved.

Copyright | Terms & Conditions | Contact Us | Amphenol.com