

BNC Female Bulkhead Mount Hermetically Sealed Connector Clamp/Solder Attachment for RG174, RG188, RG316, RG316-FEP, RG316-LSFH



RF Connectors Technical Data Sheet

PE1949

Configuration

- BNC Female Connector
- •50 Ohms
- Straight Body Geometry

- Connector Interface Types: RG174, RG188, RG316, RG316-FEP, RG316-LSFH
- Bulkhead

Features

- Max. Operating Frequency 4 GHz
- Excellent VSWR of 1.2:1
- Gold over Nickel over Copper Plated Phosphor Bronze
- Contact
- Hermetically Sealed

Applications

General Purpose Test

- Rack and Panel Mount Applications
- Custom Cable Assemblies

Description

Pasternack's PE1949, BNC, Standard, Connector is part of our full line of RF components available for same-day shipping. Our BNC female connector operates up to a maximum frequency of 4 GHz and offers excellent VSWR of 1.2:1. This BNC bulkhead connector allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications.

Our BNC female bulkhead connector PE1949 datasheet specifications and drawing with dimensions are shown below in this PDF. Pasternack's broad catalog of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. Whether the need is to provide an I/O for a board design, or simply create a custom cable assembly configuration, Pasternack has the right connector for the job. Pasternack can also expertly build your custom cable assemblies for you and ship same-day.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		4	GHz
VSWR			1.2:1	
Insertion Loss			0.2	dB
Operating Voltage (AC)			500	Vrms
Impedance		50		Ohms
Dielectric Withstanding Voltage (AC)			1,500	Vrms
Inner Conductor DC Resistance			1.5	mOhms
Outer Conductor DC Resistance			1	mOhms
nsulation Resistance	5,000			MOhms

Mechanical Specifications

Size

Length 1.19 in [30.23 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: BNC Female Bulkhead Mount Hermetically Sealed Connector Clamp/Solder Attachment for RG174, RG188, RG316, RG316-FEP, RG316-LSFH PE1949

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451



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RF Connectors Technical Data Sheet

PE1949

Width
Height
Weight
Mating Cycles
Mating Torque
Cable Retention Force

0.69 in [17.53 mm] 0.69 in [17.53 mm] 0.06 lbs [27.22 g] 500 Cycles 0.6 to 2.5 in-lbs [0.07 to 0.28 Nm] 6.1 lbs 2.77 kg

Material Specifications

Description	Material	Plating	
Contact	Phosphor Bronze	Gold over Nickel over Copper	
Insulation	PTFE		
Body	Brass	Tri-Metal over Copper	
Coupling Nut	Brass	Tri-Metal over Copper	
Gasket	Silicone	/33 /37	
Washer	Brass	Tri-Metal over Copper	

Environmental Specifications

Temperature

Operating Range

Humidity

Thermal Shock

Salt Spray

Hermetic Seal

-65 to +165 deg C

MIL-STD-202, Method106

MIL-STD-202, Method107, Condition B

MIL-STD-202, Method101, Condition B

1*10-6cc/sec helium at 1atm

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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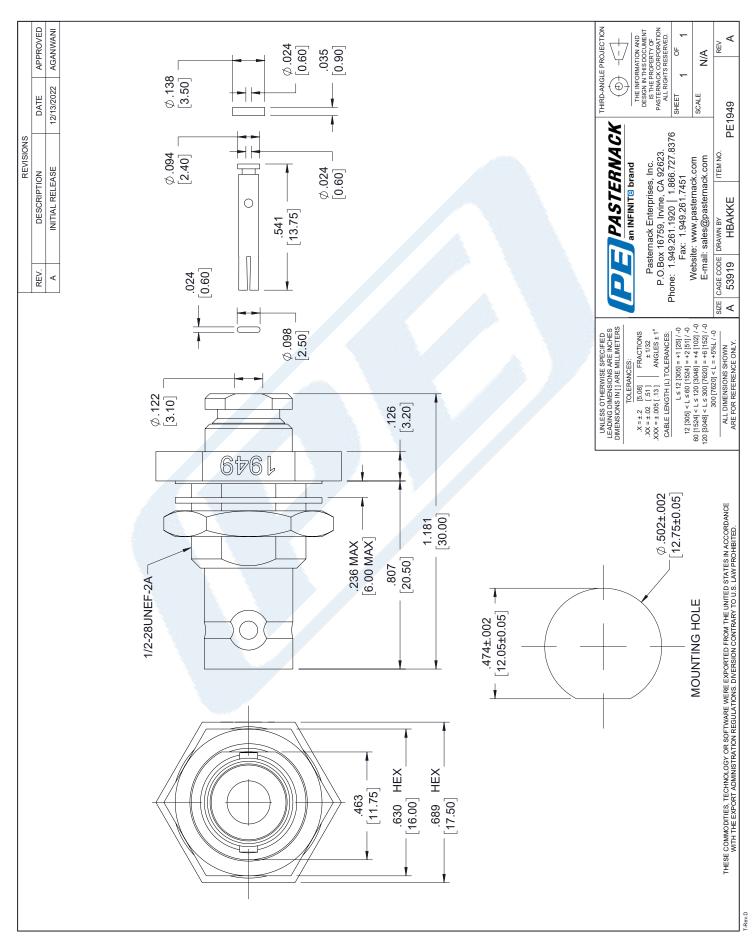
URL: https://www.pasternack.com/bnc-female-rg174-rg188-rg316-fep-rg316-lsfh-connector-pe1949-p.aspx

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PE1949 CAD Drawing

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BNC Female Bulkhead Mount Hermetically Sealed Connector Clamp/Solder Attachment for RG174, RG188, RG316



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Contact

Hermetically Sealed

Applications

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Description

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Insulation Resistance	5,000			MOhms

Mechanical Specifications

Size

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Width 0.69 in [17.53 mm] Height 0.69 in [17.53 mm] 0.06 lbs [27.22 g] Weight Mating Cycles 500 Cycles **Mating Torque**

0.6 to 2.5 in-lbs [0.07 to 0.28 Nm] Cable Retention Force 6.1 lbs 2.77 kg

Material Specifications

Description	Material	Plating Gold over Nickel over Copper	
Contact	Phosphor Bronze		
Insulation	PTFE		
Body	Brass	Tri-Metal over Copper	
Coupling Nut	Brass	Tri-Metal over Copper	
Gasket	Silicone	/433 /47	
Washer	Brass	Tri-Metal over Copper	

Environmental Specifications

Temperature

Operating Range -65 to +165 deg C MIL-STD-202, Method106 Humidity

MIL-STD-202, Method107, Condition B Thermal Shock MIL-STD-202, Method101, Condition B Salt Spray

Hermetic Seal 1*10-6cc/sec helium at 1atm

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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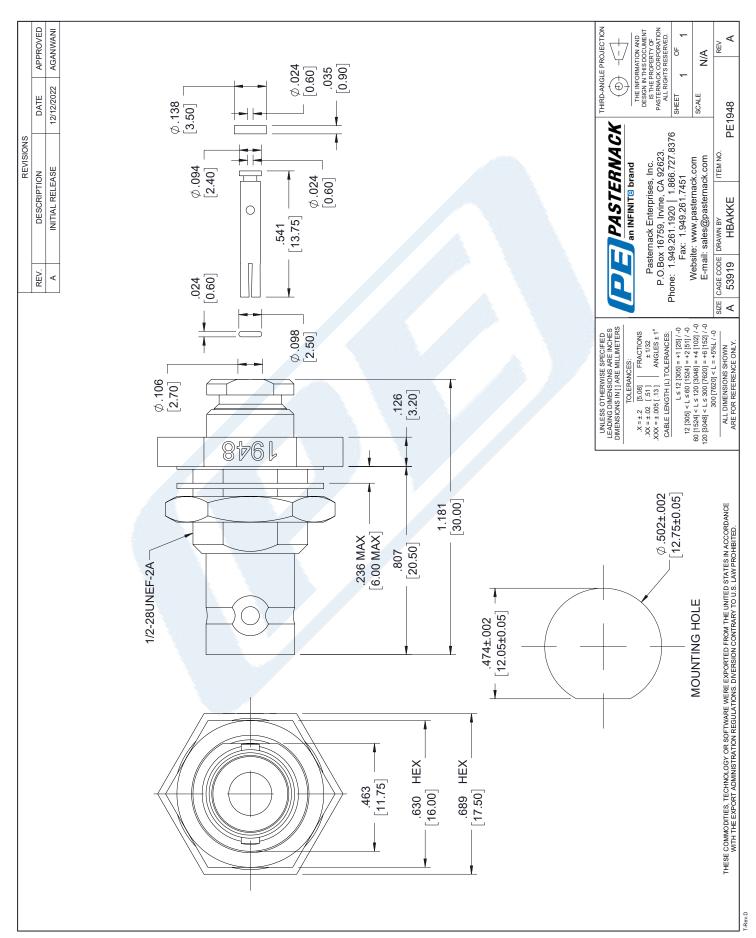
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URL: https://www.pasternack.com/bnc-female-rg174-rg188-rg316-connector-pe1948-p.aspx

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PE1948 CAD Drawing

BNC Female Bulkhead Mount Hermetically Sealed Connector Clamp/Solder Attachment for RG174, RG188, RG316







RG174 Non-Magnetic Flexible Coaxial Cable, Single Shielded with Black PVC Jacket

RF Cables Technical Data Sheet

RG174NM

Configuration

- · Non-Magnetic Flexible Cable
- 1 Shield(s)

Features

· Max Frequency 100 MHz

Magnetic Susceptibility 10⁻⁵

Applications

- General Purpose Test
- · Custom Cable Assemblies
- Medical
- Military and Aerospace

Quantum Computing

Description

RG174NM part number from Pasternack is a RG174 non-magnetic coax cable that is flexible. Pasternack flexible coax RF cable has an impedance of 50 Ohm and a PE dielectric. Our RG174 coax cable is constructed with a jacket made of PVC. This black-colored non-magnetic coax cable has a nominal capacitance of 31.7 pF/Ft.

The RG174 coax RF cable has a shield count of 1. Our coax cable from Pasternack has a maximum frequency of 0.1 GHz. Additional specifications for this RG174NM single-shielded RF coaxial cable are on our downloadable PDF datasheet above. This flexible coax RF cable has a minimum bend radius of 15 in along with 0.021 in of center conductor diameter.

Our RG174 coax cable can operate at temperatures ranging from -40 to +105 degrees C. The RG174NM flexible RF cable has a solid copper center conductor. This black-colored flexible RF cable with a 50 Ohm impedance has a typical insertion loss/maximum attenuation of 12.5 dB/100ft at a frequency of 0.1 GHz.

Pasternack RG174 non-magnetic coax cables are part of over 40,000 RF, microwave, and millimeter wave components. These flexible cables and our other RF parts are available for same-day shipping worldwide. Custom RF cable assemblies using RG174, or other coax can be built and shipped the same business day as well.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		100	MHz
Impedance		50		Ohms
Nominal Capacitance		31.7 [104]		pF/ft [pF/m]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: RG174 Non-Magnetic Flexible Coaxial Cable, Single Shielded with Black PVC Jacket RG174NM

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RG174 Non-Magnetic Flexible Coaxial Cable, Single Shielded with Black PVC Jacket

RF Cables Technical Data Sheet

RG174NM

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	100					MHz
Attenuation, Typ	12.5					dB/100ft
	41.01					dB/100m

Mechanical Specifications

Min. Bend Radius (Repeated)

1.5 in [38.1 mm]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper, 1 Strand	0.021 in [0.53 mm]
Conductor Type	Solid	
Dielectric	PE PE	0.063 in [1.6 mm]
Outer Conductor	Copper 100% coverage	0 in [0 mm]
Jacket	PVC, Black	[]

Environmental Specifications

Temperature

Operating Range -40 to 105 deg C Storage Range -40 to 105 deg C

Environmental Specification Notes:

All tests performed in accordance with MIL-DTL-17 (current issue)

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: RG174 Non-Magnetic Flexible Coaxial Cable, Single Shielded with Black PVC Jacket RG174NM

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RG174 Non-Magnetic Flexible Coaxial Cable, Single Shielded with Black PVC Jacket

RF Cables Technical Data Sheet

RG174NM

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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URL: https://www.pasternack.com/non-magnetic-flexible-pvc-jacket-single-shielded-rg174nm-p.aspx

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RG174NM CAD Drawing

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