

BNC Female Bulkhead Hermetically Sealed Connector Clamp/Solder Attachment for LMR-100A-PVC, RG174, RG188, RG316, LMR-100A-UF Cable



FMCN1949

Configuration

- BNC Female Connector
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: LMR-100A-PVC, RG174, RG188, RG316, LMR-100A-UF
- Bulkhead

Features

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

Applications

- General Purpose Test
- Rack and Panel Mount Applications
- Custom Cable Assemblies

Description

BNC Female Hermetically Sealed Bulkhead Mount Connector Clamp/Solder Attachment for LMR-100A-PVC, RG174, RG188, RG316 and LMR-100A-UF Cable, part number FMCN1949, from Fairview Microwave is in-stock and ships same day. This BNC female connector operates up to a maximum frequency of 4 GHz and offers excellent VSWR of 1.2:1. Fairview's FMCN1949 bulkhead BNC connector enables designers to make external connections on product enclosures, and can be used in a variety of other rack mount and panel mount applications.

Fairview's BNC female bulkhead connector FMCN1949 datasheet specifications and outline drawing are shown in this PDF below. Our extensive offering of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. From providing an I/O for a board design to creating a custom cable assembly configuration, Fairview Microwave has a connector solution to meet your needs. Fairview Microwave also has the expertise to build your custom cable assemblies for you and ship them 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
Dielectric Withstanding Voltage (AC)			1,500	Vrms
Inner Conductor DC Resistance			1.5	mOhms
Outer Conductor DC Resistance			1	mOhms
Insulation Resistance	5,000			MOhms
Impedance		50		Ohms

Mechanical Specifications

Size

Length	1.19 in [30.23 mm]
Width	0.69 in [17.53 mm]
Height	0.69 in [17.53 mm]
Weight	0.06 lbs [27.22 g]

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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
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	
Washer	Brass	Tri-Metal over Copper

Environmental Specifications

Temperature	
Operating Range	-65 to +165 deg C
Humidity	MIL-STD-202, Method106
Thermal Shock	MIL-STD-202, Method107, Condition B
Salt Spray	MIL-STD-202, Method101, Condition B
Hermetic Seal	1*10-6cc/sec helium at 1atm

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

BNC Female Bulkhead Hermetically Sealed Connector Clamp/Solder Attachment for LMR-100A-PVC, RG174, RG188, RG316, LMR-100A-UF Cable from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [BNC Female Bulkhead Hermetically Sealed Connector Clamp/Solder Attachment for LMR-100A-PVC, RG174, RG188, RG316, LMR-100A-UF Cable FMCN1949](#)

URL: <https://www.fairviewmicrowave.com/product/rf-connectors/bnc-female-lmr-100a-pvc-rg174-rg188-rg316-lmr-100a-uf-connector-fmcn1949.html>

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume liability arising out of the use of any part or document.

FMCN1949 CAD Drawing

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for LMR-100A-PVC, RG174, RG188, RG316, LMR-100A-UF Cable

