

MCX Jack (Female) Bulkhead Connector Crimp/Solder Attachment for LMR®-100A-UF, LMR®-100A-PVC, M17/113-RG316, RG174NM, RG188, RG316 Cable



FMCN5412

Configuration

- MCX Jack Connector
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: LMR®-100A-UF, LMR®-100A-FR, LMR®-100A-PVC, M17/113-RG316, RG174, RG174NM, RG188, RG316
- Bulkhead

Features

- Operating Frequency of 6 GHz Max.
- Excellent VSWR of 1.2:1
- Gold over Nickel over Copper Plated Phosphor Bronze Contact

Applications

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

Description

MCX Jack Bulkhead Mount Connector Crimp/Solder Attachment for LMR®-100A-UF, LMR®-100A-FR, LMR®-100A-PVC, M17/113-RG316, RG174, RG174NM, RG188 and RG316 Cable, part number FMCN5412, from Fairview Microwave is in-stock and ships same day. This MCX jack connector operates up to a maximum frequency of 6 GHz and offers excellent VSWR of 1.2:1. Fairview's FMCN5412 bulkhead MCX 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 MCX jack bulkhead connector FMCN5412 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		6	GHz
VSWR			1.2:1	
Operating Voltage (AC)			250	Vrms
Dielectric Withstanding Voltage (AC)			750	Vrms
Inner Conductor DC Resistance			5	mOhms
Outer Conductor DC Resistance			2.5	mOhms
Insulation Resistance	10,000			MOhms
Impedance		50		Ohms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 1	1 to 3				GHz
Insertion Loss, Max	0.1	0.15				dB

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Mechanical Specifications

Size

Length	0.575 in [14.61 mm]
Width	0.315 in [8 mm]
Height	0.315 in [8 mm]
Weight	0.007 lbs [3.18 g]
Mating Cycles	500 Cycles
Engagement Force	5.6lbs [2.54kg]
Disengagement Force	1.8lbs [816.47g]

Material Specifications

Description	Material	Plating
Contact	Phosphor Bronze	Gold over Nickel over Copper
Insulation	PTFE	
Body	Brass	Gold over Nickel over Copper
Gasket	Silicone	
Crimp Sleeve	Brass	Gold over Nickel over Copper
Washer	Brass	Gold over Nickel over Copper

Environmental Specifications

Temperature

Operating Range	-55 to +155 deg C
Humidity	MIL-STD-202, Method 106
Thermal Shock	MIL-STD-202, Method 107, Condition F
Salt Spray	MIL-STD-202, Method 101, Condition B

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

Plotted and Other Data

Notes:

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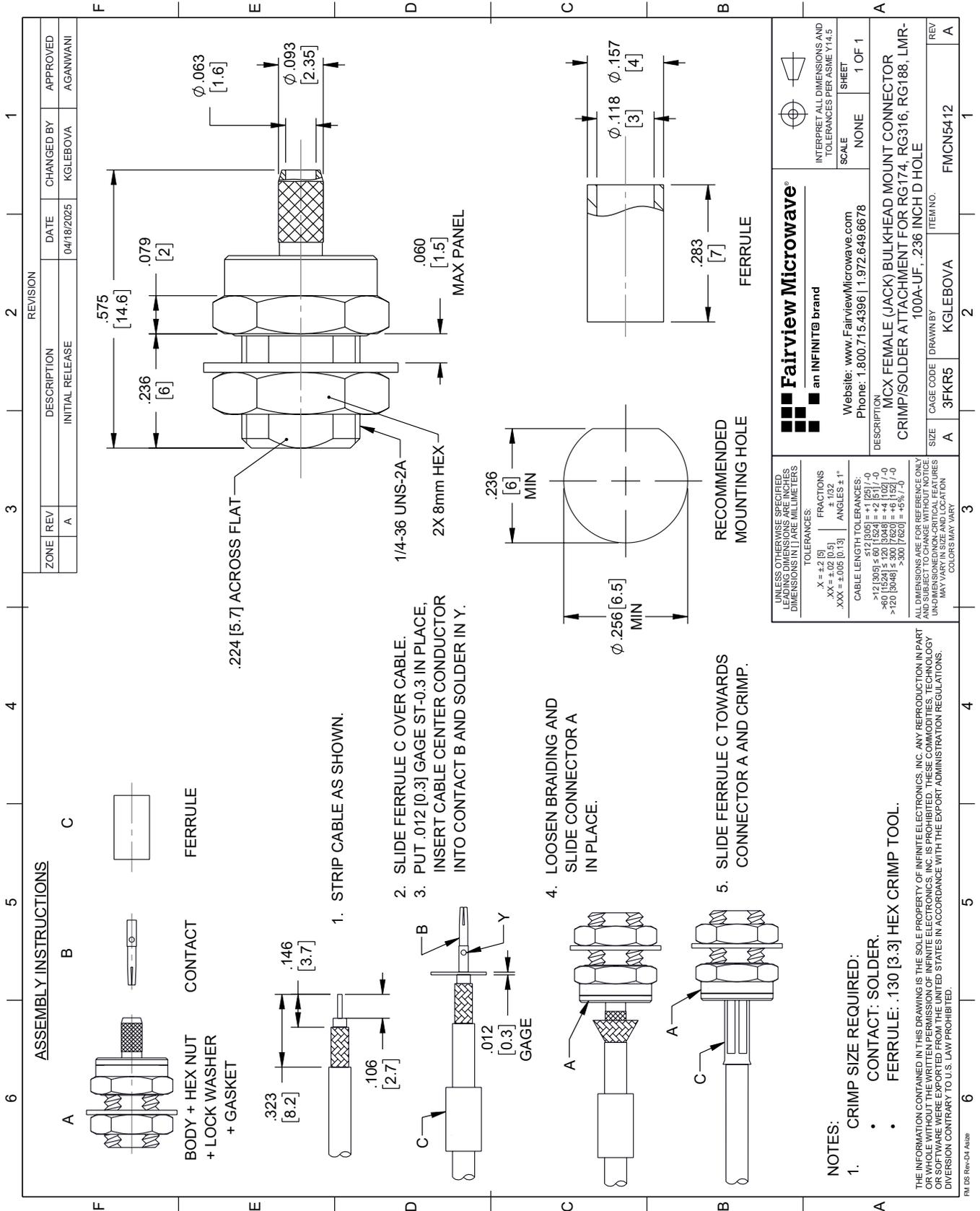
For additional information on this product, please click the following link: [MCX Jack \(Female\) Bulkhead Connector Crimp/Solder Attachment for LMR®-100A-UF, LMR®-100A-PVC, M17/113-RG316, RG174NM, RG188, RG316 Cable FMCN5412](#)

URL: <https://www.fairviewmicrowave.com/product/rf-connectors/mcx-jack-lmr-100a-uf-lmr-100a-fr-lmr-100a-pvc-m17-113-rg316-rg174-rg174nm-rg188-rg316-connector-fmcn5412.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.

FMCN5412 CAD Drawing

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DESCRIPTION MCX FEMALE (JACK) BULKHEAD MOUNT CONNECTOR CRIMP/SOLDER ATTACHMENT FOR RG174, RG316, RG188, LMR-100A-UF, .236 INCH D HOLE		CAGE CODE: 3FKR5 DRAWN BY: KGLEBOVA ITEM NO.: FMCN5412	REV: A