

Low Loss N Female Bulkhead to MCX Plug Cable RG-316 Coax in 48 Inch

The type N female bulkhead to MCX plug 48 inch cable using RG-316 coax, part number FMC00311-48, from Fairview Microwave is in-stock and ships same day. This Fairview type N to MCX cable assembly has a female to plug gender configuration with 50 ohm flexible RG316 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMC00311-48 type N female to MCX plug cable assembly operates to 3 GHz. Our RF cable assembly with type N bulkhead interface 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.

Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other RF cable assembly value added services including connector orientation or clocking, heat shrink booting and labeling are also available. RF testing can also be performed to document the electrical performance of your cable assembly.

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		3	GHz
VSWR			1.4:1	
Velocity of Propagation		69		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]
Operating Voltage (AC)			250	Vrms
Jacket Spark			2,000	Vrms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Typ.)	0.63	0.83	1.15	1.72	2.51	dB

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax cable and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1 dB per connector.

Mechanical Specifications

Cable Assembly

Length*	48 in [121.92 cm]
Diameter	0.807 in [20.5 mm]

Cable

Cable Type	RG316
Impedance	50 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper Clad Steel, Silver
Dielectric Type	PTFE
Number of Shields	1



Configuration:

- N Female Bulkhead
- MCX Plug
- RG316

Features:

- Max Frequency 3 GHz
- 69% Phase Velocity
- FEP Jacket

Applications:

- General Purpose
- Laboratory Use

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Shield Layer 1
 Jacket Material
 Jacket Diameter

Silver Plated Copper Braid
 FEP, Tan
 0.102 in [2.59 mm]

Connectors

Description	Connector 1	Connector 2
Type	N Female	MCX Plug
Mount Method	Bulkhead	
Specification	MIL-STD-348A	CECC 22220
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Beryllium Copper, Gold	Brass, Gold
Contact Plating Spec.	30 µin minimum	30 µin minimum
Dielectric Type	PTFE	PTFE
Outer Cond Material & Plating	Brass, Nickel	
Outer Cond Plating Spec.	100 µin minimum	
Body Material & Plating		Brass, Gold
Body Plating Spec.		3 µin minimum
Hex Size	3/4 inch	

Environmental Specifications

Temperature

Operating Range -55 to +200 deg C

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

Plotted and Other Data

Notes:

How to Order

Part Number Configuration:

FMC00311 - xx uu

cm = Centimeters
 <blank> = Inches
 Length

Example: FMC00311-12 = 12 inches long cable
 FMC00311-100cm = 100 cm long cable

Low Loss N Female Bulkhead to MCX Plug Cable RG-316 Coax in 48 Inch from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

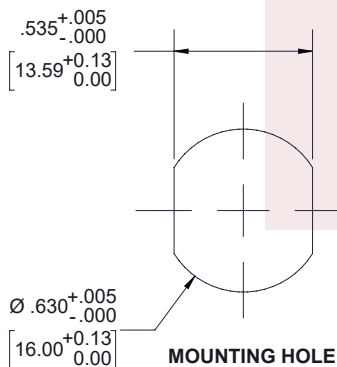
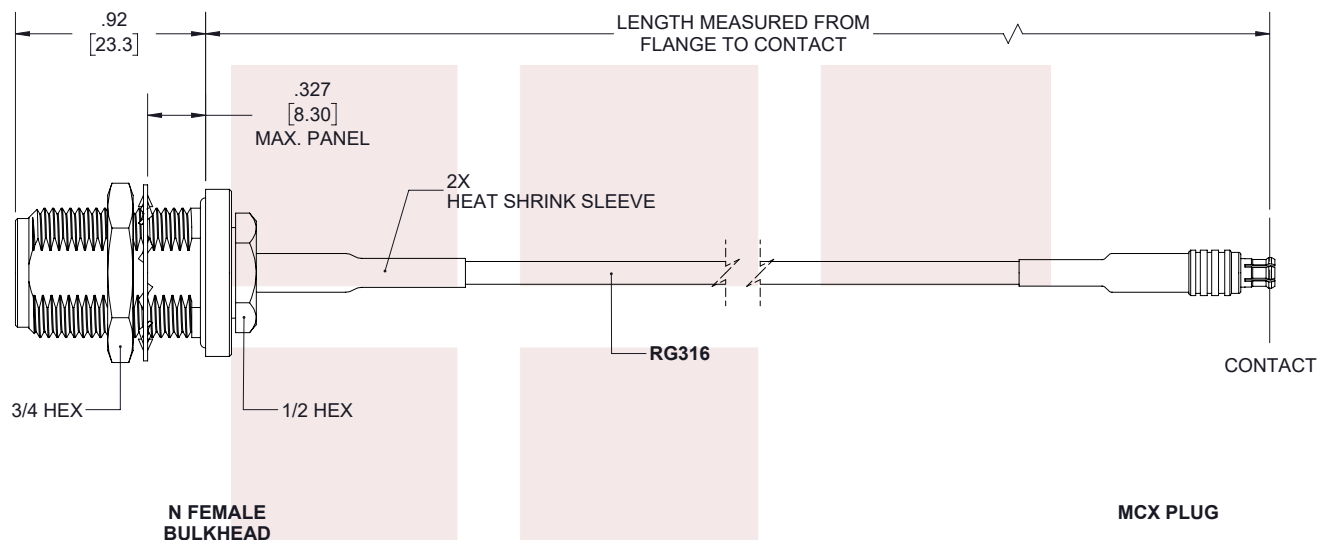
Click the following link to obtain additional part information: [Low Loss N Female Bulkhead to MCX Plug Cable RG-316 Coax in 48 Inch FMC00311-48](https://www.fairviewmicrowave.com/n-female-mcx-plug-cable-rg316-coax-fmc00311-48-p.aspx)

URL: <https://www.fairviewmicrowave.com/n-female-mcx-plug-cable-rg316-coax-fmc00311-48-p.aspx>

The information contained in 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 any liability arising out of the use of any part or documentation.



REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	2/25/2020	S.ELLIS



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TITLE
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UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [] ARE MILLIMETERS

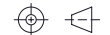
TOLERANCES:

.X = ±.2 [5.08] FRACTIONS
.XX = ±.02 [.51] ± 1/32
.XXX = ±.005 [.13] ANGLES ± 1°

CABLE LENGTH (L) TOLERANCES:

L ≤ 12 [305] = +1 [25] / -0
12 [305] < L ≤ 60 [1524] = +2 [51] / -0
60 [1524] < L ≤ 120 [3048] = +4 [102] / -0
120 [3048] < L ≤ 300 [7620] = +6 [152] / -0
300 [7620] < L = +5%L / -0

THIRD-ANGLE PROJECTION



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SHEET 1 OF 1

SCALE N/A

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	3FKR5	K.DANG	FMC00311	A

T-Rev.D