

## MCX Plug to SMA Female Bulkhead Cable RG-316 Coax

The MCX plug to SMA female bulkhead cable using RG-316 coax, part number FMC0712315, from Fairview Microwave is in-stock and ships same day. This Fairview MCX to SMA cable assembly has a plug to female gender configuration with 50 ohm flexible RG-316 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMC0712315 MCX plug to SMA female cable assembly operates to 3 GHz. Our RF cable assembly with SMA 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			1.3:1	
Velocity of Propagation		70		%
Capacitance		32 [104.99]		pF/ft [pF/m]

### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Typ.)	0.31	0.35	0.4	0.5	0.75	dB/ft
	1.02	1.15	1.31	1.64	2.46	dB/m

#### Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1dB per connector.

### Mechanical Specifications

#### Cable Assembly

Weight 0.01235 lbs [5.6 g]

#### Cable

Cable Type RG-316  
Impedance 50 Ohms  
Inner Conductor Type Solid  
Inner Conductor Material and Plating Copper, Silver  
Dielectric Type PTFE  
Number of Shields 1  
Shield Layer 1 Silver Plated Copper Braid  
Jacket Material FEP, Tan  
Jacket Diameter 0.098 in [2.49 mm]



### Configuration:

- MCX Plug
- SMA Female Bulkhead
- RG-316

### Features:

- Max Frequency 3 GHz
- 70% Phase Velocity
- FEP Jacket

### Applications:

- General Purpose
- Laboratory Use

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## Connectors

Description	Connector 1	Connector 2
Type	MCX Plug	SMA Female
Mount Method		Bulkhead
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Brass, Gold	Beryllium Copper, Gold
Contact Plating Spec.	30μ" Min	50μ in. minimum
Dielectric Type	Teflon	Teflon
Body Material & Plating	Brass, Gold	Brass, Gold
Body Plating Spec.	3μ" Minimum	3μ in. minimum

### Mechanical Specification Notes:

\*All cable assemblies have a length tolerance of 1.5% or  $\pm 3/8"$ , whichever is greater.

## Environmental Specifications

### Temperature

Operating Range -20 to +80 deg C

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

## Plotted and Other Data

Notes:

## How to Order

Part Number Configuration:

**FMC0712315 - xx uu**

cm = Centimeters  
<blank> = Inches  
Length

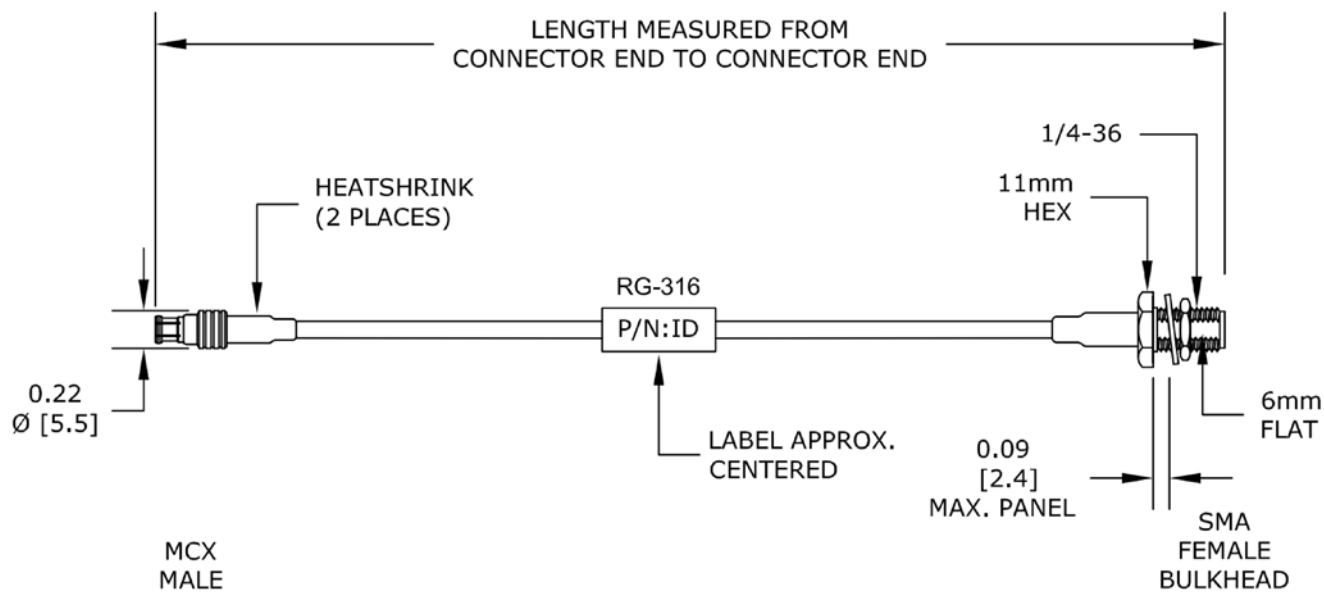
Example: FMC0712315-12 = 12 inches long cable  
FMC0712315-100cm = 100 cm long cable

MCX Plug to SMA Female Bulkhead Cable RG-316 Coax 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: [MCX Plug to SMA Female Bulkhead Cable RG-316 Coax FMC0712315](#)

URL: <https://www.fairviewmicrowave.com/mcx-plug-sma-female-cable-rg-316-coax-fmc0712315-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.



**STANDARD TOLERANCES**

.X ±0.2  
.XX ±0.01  
.XXX ±0.005

\*STANDARD TOLERANCES APPLY  
ONLY TO DIMENSIONS IN INCHES

NOTES:  
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.  
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.  
3. DIMENSIONS ARE IN INCHES [mm].

TITLE  
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Coax

DWG NO	FMC0712315		CAGE CODE		3FKR5	
CAD FILE	05/08/18	SHEET	1 OF 1	SCALE	N/A	SIZE A 7361