



STRANDED CENTER

## FMC1313316

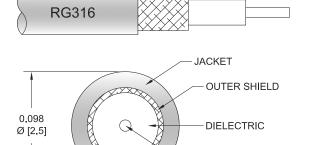
### Configuration

Connector 1: SMA FemaleConnector 2: SMA FemaleCable Type: RG-316

· Coax Flex Type: Flexible

#### **Features**

- Max Frequency 3 GHz70% Phase Velocity
- FEP Jacket



## **Applications**

· General Purpose

· Laboratory Use

## **Description**

The SMA female to SMA female cable using RG-316 coax, part number FMC1313316, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to SMA cable assembly has a female 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 FMC1313316 SMA female to SMA female cable assembly operates to 3 GHz.

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	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR			1.4:1	
Velocity of Propagation		70		%
Capacitance		32 [104.99]		pF/ft [pF/m]

#### Specifications by Frequency





# FMC1313316

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	100	250	500	1000	3000	MHz	
FMC1313316	Custom Lengths	Insertion Loss (Typ.)	0.11	0.16	0.23	0.38	0.58	dB/ft	
110101313310	Available	111361 tio11 L033 (1 yp.)	0.37	0.53	0.76	1.25	1.91	dB/m	
FMC1313316-12	12 Inch	Insertion Loss (Typ.)	0.31	0.36	0.43	0.58	0.78	dB	0.022
FMC1313316-24	24 Inch	Insertion Loss (Typ.)	0.42	0.52	0.66	0.96	1.36	dB	0.033
FMC1313316-36	36 Inch	Insertion Loss (Typ.)	0.53	0.68	0.89	1.34	1.94	dB	0.043
FMC1313316-48	48 Inch	Insertion Loss (Typ.)	0.64	0.84	1.12	1.72	2.52	dB	0.053
FMC1313316-72	72 Inch	Insertion Loss (Typ.)	0.86	1.16	1.58	2.48	3.68	dB	0.073

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

Loss due to Connector 1:

0.1 dB

Loss due to Connector 2:

0.1 dB

Base Weight:

0.022 pounds

Additional Weight per Inch:

0.00084 pounds

## **Mechanical Specifications**

## Cable Assembly

Weight 0.022 lbs [9.98 g]

#### Cable

Cable TypeRG-316Impedance50 OhmsInner Conductor TypeSolidInner Conductor Material and PlatingCopper, SilverDielectric TypePTFE

Number of Shields 1
Shield Layer 1 Silver Plated Copper Tape
Shield Layer 2 Silver Plated Copper Braid
Jacket Material FEP, Black

Jacket Diameter 0.098 in [2.49 mm]





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#### **Connectors**

Description	Connector 1	Connector 2
Туре	SMA Female	SMA Female
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Specification	50 μin minimum	50 μin minimum
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating	Brass, Gold	Brass, Gold
Outer Conductor Plating Specification	3 µin minimum	3 µin minimum
Hex Size	1/4 inch	1/4 inch

## **Environmental Specifications**

Operating Range Temperature

-55 to +165 deg C

Compliance Certifications (see product page for current document)

## **Plotted and Other Data**

Notes:

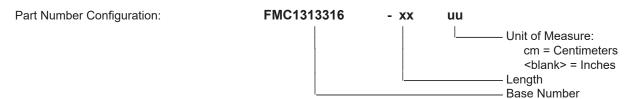




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### **Typical Performance Data**

#### **How to Order**



Example: FMC1313316-12 = 12 inches long cable

FMC1313316-100cm = 100 cm long cable

SMA Female to SMA Female Cable RG-316 Coax 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 ondemand.

For additional information on this product, please click the following link: SMA Female to SMA Female Cable RG-316 Coax FMC1313316

URL: https://www.fairviewmicrowave.com/sma-female-to-sma-female-cable-rg-316-coax-fmc1313316-p.aspx

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 impliment 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.

