



## **FMCA10068**

#### Configuration

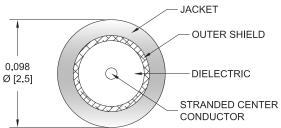
Connector 1: SSMA MaleConnector 2: SMA MaleCable Type: RG-316Coax Flex Type: Flexible

#### **Features**

Max Frequency 3 GHz69% Phase Velocity

FEP Jacket





# **Applications**

· General Purpose

· Laboratory Use

## **Description**

The SSMA male to SMA male cable using RG-316 coax, part number FMCA10068, from Fairview Microwave is in-stock and ships same day. This Fairview SSMA to SMA cable assembly has a male to male 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 FMCA10068 SSMA male to SMA male 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		69		%
Operating Voltage (AC)			250	Vrms
Jacket Spark			2,000	Vrms

# Specifications by Frequency





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Part Number Length	Longth	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
	Frequency	100	250	500	1000	3000	MHz	weight (ibs)	
FMCA10068	Custom Lengths	Insertion Loss (Typ.)	0.11	0.16	0.24	0.38	0.58	dB/ft	
TWICATOOOS	Available	misertion Loss (Typ.)	0.37	0.53	0.79	1.25	1.91	dB/m	
FMCA10068-12	12 Inch	Insertion Loss (Typ.)	0.46	0.51	0.59	0.73	0.93	dB	0.033
FMCA10068-24	24 Inch	Insertion Loss (Typ.)	0.57	0.67	0.83	1.11	1.51	dB	0.042
FMCA10068-36	36 Inch	Insertion Loss (Typ.)	0.68	0.83	1.07	1.49	2.09	dB	0.051
FMCA10068-48	48 Inch	Insertion Loss (Typ.)	0.79	0.99	1.31	1.87	2.67	dB	0.06
FMCA10068-72	72 Inch	Insertion Loss (Typ.)	1.01	1.31	1.78	2.63	3.83	dB	0.078

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 1:0.25 dBLoss due to Connector 2:0.1 dBBase Weight:0.033 poundsAdditional Weight per Inch:0.32917 pounds

## **Mechanical Specifications**

Cable Assembly

 Width/Diameter
 0.5 in [12.7 mm]

 Weight
 0.033 lbs [14.97 g]

Cable

Cable TypeRG-316Impedance50 OhmsInner Conductor TypeStranded

Inner Conductor Material and Plating Copper Clad Steel, Silver

Dielectric Type PTFE
Number of Shields 1

Shield Layer 1 Silver Plated Copper Braid

Jacket Material FEP, Tan

Jacket Diameter 0.102 in [2.59 mm]





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#### **Connectors**

Description	Connector 1	Connector 2		
Туре	SSMA Male	SMA Male		
Specification	MIL-STD-348A			
Impedance	50 Ohms	50 Ohms		
Configuration	Straight	Straight		
Contact Material and Plating	Brass, Gold	Brass, Gold		
Contact Plating Specification	50 μin minimum	15 µin minimum		
Dielectric Type	PTFE	PTFE		
Body Material and Plating	Brass, Nickel	Brass, Nickel		
Body Plating Specification	100 µin minimum	200 μin minimum		
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel		
Coupling Nut Plating Specification	100 µin minimum	200 μin minimum		
Hex Size	1/4 inch			

# **Environmental Specifications**

Operating Range Temperature

-40 to +125 deg C

Compliance Certifications (see product page for current document)

#### **Plotted and Other Data**

Notes:

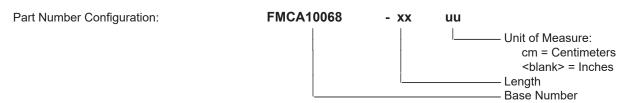




# **FMCA10068**

#### **Typical Performance Data**

#### **How to Order**



Example: FMCA10068-12 = 12 inches long cable

FMCA10068-100cm = 100 cm long cable

SSMA Male to SMA Male 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 on-demand.

For additional information on this product, please click the following link: SSMA Male to SMA Male Cable RG-316 Coax FMCA10068

URL: https://www.fairviewmicrowave.com/ssma-male-to-sma-male-cable-rq-316-coax-fmca10068-p.aspx

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