



SMPS Female to SMA Male Cable FM-P047HF Coax

The SMPS female to SMA male cable using FM-P047HF coax, part number FMCA9969, from Fairview Microwave is in-stock and ships same day. This Fairview SMPS to SMA cable assembly has a female to male gender configuration with 50 ohm flexible FM-P047HF coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA9969 SMPS female to SMA male cable assembly operates to 27 GHz. The double shielding of this Fairview cable assembly provides excellent shielding effectiveness of better than 90 dB.

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	Т	ур	Max	U	Inits
Frequency Range	DC			27		GHz
VSWR				1.5:1		
Velocity of Propagation		7	70			%
RF Shielding	90					dB
Capacitance		29 [9	95.14]		pF/fl	[pF/m]

Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)	
Fait Nullibel	rengui	Frequency	2500	5000	10000	18000	27000	MHz		
FMCA9969	Custom Lengths	Insertion Loss (Typ.)	0.35	0.49	0.763	1.107	1.681	dB/ft		
	Available	ilisertion Loss (Typ.)	1.15	1.61	2.51	3.64	5.52	dB/m		
FMCA9969-6	6 inch	Insertion Loss (Typ.)	0.42	0.59	0.86	1.19	1.62	dB	0.015	
FMCA9969-12	12 inch	Insertion Loss (Typ.)	0.59	0.83	1.24	1.75	2.47	dB	0.017	
FMCA9969-18	18 inch	Insertion Loss (Typ.)	0.77	1.08	1.62	2.3	3.31	dB	0.019	

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*SQRT(FGHz) dB
Loss due to Connector 2: 0.05*SQRT(FGHz) dB
Base Weight: 0.017 pounds
Additional Weight per Inch: 0.00033 pounds

Mechanical Specifications

Cable Assembly

Weight 0.01411 lbs [6.4 g]

Cable

Cable Type
Impedance
Inner Conductor Type
Inner Conductor Material and Plating
Dielectric Type
Number of Shields
Shield Layer 1
Shield Layer 2
Jacket Material

FM-P047HF 50 Ohms Solid Copper, Silver

PTFE 2

Silver Plated Copper Tape Silver Plated Copper Braid

FEP, Blue



Configuration:

- SMPS Female
- SMA Male
- FM-P047HF

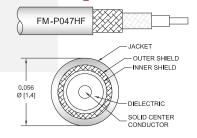
Features:

- Max Frequency 27 GHz
- Shielding Effectivity > 90 dB
- 70% Phase Velocity
- Double Shielded
- FEP Jacket

Applications:

- General Purpose
- Laboratory Use
- Scientific research
- High-reliability, high-density for aerospace & defense application
- Ground base station & communication systems, avionics, radar systems

Cable Diagram:



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Jacket Diameter 0.06 in [1.52 mm]

Repeated Minimum Bend Radius 0.1 in [2.54 mm]

Connectors

Description	Connector 1		Connector 2					
Туре	SMPS Female Pus	SMPS Female Push-on			SMA Male Threaded			
Impedance	50 Ohms		50 Ohm	S				
Contact Material & Plating	Beryllium Copper, (GoldE	Beryllium Copper, G	old ove	er N			
Contact Plating Spec.	50 μin minimun	า	MIL-G-452	.04				
Dielectric Type	PTFE		PTFE					
Outer Cond Material & Plati	ng Beryllium Copper, (Gold						
Outer Cond Plating Spec.	50 μin minimun	า						
Body Material & Plating	Beryllium Copper, (Gold	Brass, Go	ld				
Body Plating Spec.	30 μin minimun	า	MIL-G-452	.04				
Coupling Nut Material & Pla	ting		Passivated Stainl	ess St	eel			
Coupling Nut Plating Spec.			ASTM-A38	30				

Environmental Specifications

Temperature

Operating Range

-55 to +100 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

How to Order

Part Number Configuration:

FMCA9969 - xx uu | cm = Centimeters | chlank> = Inches | Length

Example: FMCA9969-12 = 12 inches long cable

FMCA9969-100cm = 100 cm long cable

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SMPS Female to SMA Male Cable FM-P047HF Coax from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: SMPS Female to SMA Male Cable FM-P047HF Coax FMCA9969

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

URL: https://www.fairviewmicrowave.com/smps-female-to-sma-male-cable-fm-p047hf-coax-fmca9969-p.aspx

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