

FMCA9966 DATA SHEET

RA SMPS Female to SMP Female Cable FM-P047HF Coax

The RA SMPS female to SMP female cable using FM-P047HF coax, part number FMCA9966, from Fairview Microwave is in-stock and ships same day. This Fairview SMPS to SMP cable assembly has a female to female 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 FMCA9966 SMPS female to SMP female cable assembly operates to 18 GHz. The right angle SMPS interface on the FM-P047HF cable allows for easier connections in tight spaces. 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	ι	Inits
Frequency Range	DC			18		GHz
VSWR				1.5:1		
Velocity of Propagation		7	70			%
RF Shielding	90					dB
Capacitance		29 [95.14]		pF/f	pF/ft [pF/m]	

Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	1000	2000	4500	9000	18000	MHz	weight (ibs)
FMCA9966	Custom Lengths	Insertion Loss (Typ.)	0.35	0.49	0.763	1.107	1.681	dB/ft	
	Available		1.15	1.61	2.51	3.64	5.52	dB/m	
FMCA9966-6	6 inch	Insertion Loss (Typ.)	0.4	0.52	1.29	1.02	1.45	dB	0.011
FMCA9966-12	12 inch	Insertion Loss (Typ.)	0.57	0.76	1.67	1.57	2.3	dB	0.013
FMCA9966-18	18 inch	Insertion Loss (Typ.)	0.75	1.01	2.05	2.13	3.14	dB	0.015

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: 0.12*SQRT(FGHz) dB
Loss due to Connector 2: 0.1 dB
Base Weight: 0.013 pounds
Additional Weight per Inch: 0.00033 pounds

Mechanical Specifications

Cable Assembly

Weight 0.0104 lbs [4.72 g]

Cable

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

FM-P047HF 50 Ohms Solid Copper, Silver

PTFE 2

Silver Plated Copper Tape Silver Plated Copper Braid



Configuration:

- SMPS Female Right Angle
- SMP Female
- FM-P047HF

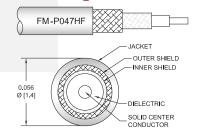
Features:

- Max Frequency 18 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:



Fairview Microwave 301 Leora Ln., Suite 100 Lewisville, TX 75056 Tel: 1-800-715-4396 / (972) 649-6678 Fax: (972) 649-6689

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Jacket Material FEP, Blue

Jacket Diameter 0.06 in [1.52 mm]

Repeated Minimum Bend Radius 0.1 in [2.54 mm]

Connectors

Description	Description Connector 1		
Туре	SMPS Female Push-	on SMP Female Push-On	
Specification		MIL-STD-348A	
Impedance	50 Ohms	50 Ohms	
Contact Material & Plating	Beryllium Copper, Go	ld Beryllium Copper, Gold	
Contact Plating Spec.	50 μin minimum	MIL-G-45204	
Dielectric Type	PTFE	PTFE	
Outer Cond Material & Plati	ng Beryllium Copper, Go	ld Beryllium Copper, Gold	
Outer Cond Plating Spec.	50 μin minimum	MIL-G-45204	
Body Material & Plating	Beryllium Copper, Go	ld Beryllium Copper, Gold	
Body Plating Spec.	30 μin minimum	MIL-G-45204	

Environmental Specifications

Temperature

Operating Range -55 to +125 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

How to Order

Part Number Configuration:

FMCA9966 - xx uu | cm = Centimeters | chlank> = Inches | Length

Example: FMCA9966-12 = 12 inches long cable

FMCA9966-100cm = 100 cm long cable

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RA SMPS Female to SMP Female 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: RA SMPS Female to SMP Female Cable FM-P047HF Coax FMCA9966

The information contained in this document is accurate to the best of our knowledge and representative of the part

URL: https://www.fairviewmicrowave.com/ra-smps-female-to-smp-female-cable-fm-p047hf-coax-fmca9966-p.aspx

described h	herein. It may be necessar	y to make	modifications to	the part ar	nd/or th	ne documentation of	the part, in order
to impleme	ent improvements. Fairview	Microwav	e reserves the rig	ht to make	such o	changes as required.	Unless otherwise
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