



## SMPS Female to RA SMPS Female Cable FM-P047HF Coax

The SMPS female to RA SMPS female cable using FM-P047HF coax, part number FMCA9952, from Fairview Microwave is in-stock and ships same day. This Fairview SMPS to SMPS 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 FMCA9952 SMPS female to SMPS female cable assembly operates to 40 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	U	nits
Frequency Range	DC			40	(	GHz
VSWR				1.5:1		
Velocity of Propagation		7	70			%
RF Shielding	90					dB
Capacitance		29 [95.14]		pF/ft	pF/ft [pF/m]	

Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	2500	5000	10000	20000	40000	MHz	
FMCA9952	Custom Lengths	Insertion Loss (Typ.)	0.55	0.8	1.17	1.78	2.77	dB/ft	
FIVICA9952	Available		1.81	2.63	3.84	5.84	9.09	dB/m	
FMCA9952-6	6 inch	Insertion Loss (Typ.)	0.63	0.9	1.29	1.88	2.78	dB	0.004
FMCA9952-12	12 inch	Insertion Loss (Typ.)	0.9	1.3	1.87	2.77	4.17	dB	0.006
FMCA9952-18	18 inch	Insertion Loss (Typ.)	1.18	1.7	2.46	3.66	5.55	dB	0.008

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.

0.1\*SQRT(FGHz) dB Loss due to Connector 1: Loss due to Connector 2: 0.12\*SORT(FGHz) dB Base Weight: 0.006 pounds

Additional Weight per Inch: 0.00033 pounds

#### **Mechanical Specifications**

# **Cable Assembly**

Weight 0.00266 lbs [1.21 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
- SMPS Female Right Angle
- FM-P047HF

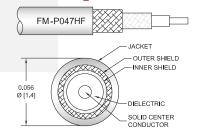
### Features:

- Max Frequency 40 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

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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	Connector 1	Connector 2		
Туре	SMPS Female Push-on	SMPS Female Push-on		
Impedance	50 Ohms	50 Ohms		
Contact Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold		
Contact Plating Spec.	50 μin minimum	50 μin minimum		
Dielectric Type	PTFE	PTFE		
Outer Cond Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold		
Outer Cond Plating Spec.	50 μin minimum	50 μin minimum		
Body Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold		
Body Plating Spec.	30 μin minimum	30 μin minimum		

**Environmental Specifications** 

Temperature

Operating Range -55 to +165 deg C

**Compliance Certifications** (see product page for current document)

FMCA9952-100cm = 100 cm long cable

**Plotted and Other Data** 

Notes:

**How to Order** 

Part Number Configuration:

FMCA9952 - xx | uu | cm = Centimeters | chlank > = Inches | Length |

Example: FMCA9952-12 = 12 inches long cable

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SMPS Female to RA SMPS 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: SMPS Female to RA SMPS Female Cable FM-P047HF Coax FMCA9952

URL: https://www.fairviewmicrowave.com/smps-female-to-ra-smps-female-cable-fm-p047hf-coax-fmca9952-p.aspx



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