



SMPS Female to SMP Female Cable FM-P047HF Coax

The SMPS female to SMP female cable using FM-P047HF coax, part number FMCA9959, 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 FMCA9959 SMPS female to SMP female cable assembly operates to 18 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

Min	Т	ур	Max	U	nits
DC			18		GHz
			1.46:1		
	7	70			%
90					dB
	29 [9	95.14]		pF/ft	[pF/m]
	DC	DC 7	DC 70 90	DC 18 1.46:1	DC 18 1.46:1 70 90

Specifications by Frequency

Part Number	Longth	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
	Length	Frequency	1000	2000	4500	9000	18000	MHz	weight (ibs)
FMCA9959	Custom Lengths	Insertion Loss (Typ.)	0.35	0.49	0.76	1.11	1.681	dB/ft	
FIVICA9939	Available	insertion Loss (Typ.)	1.15	1.61	2.51	3.64	5.52	dB/m	
FMCA9959-6	6 inch	Insertion Loss (Typ.)	0.38	0.49	0.7	0.96	2.03	dB	0.011
FMCA9959-12	12 inch	Insertion Loss (Typ.)	0.55	0.74	1.08	1.51	2.87	dB	0.013
FMCA9959-18	18 inch	Insertion Loss (Typ.)	0.73	0.98	1.46	2.07	3.71	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: 0.1*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 0.01011 lbs [4.59 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
- SMP Female
- FM-P047HF

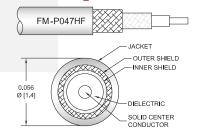
Features:

- 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 www.fairviewmicrowave.com sales@fairviewmicrowave.com





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	SMP Female Push-On			
Specification		DESC 94008			
Impedance	50 Ohms	50 Ohms			
Contact Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold			
Contact Plating Spec.	50 µin minimum	MIL-G-45204			
Dielectric Type	PTFE	PTFE			
Outer Cond Material & Plati	ng Beryllium Copper, Gold	Beryllium Copper, Gold			
Outer Cond Plating Spec.	50 µin minimum	MIL-G-45204			
Body Material & Plating	Beryllium Copper, Gold	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:

FMCA9959 - xx uu

cm = Centimeters
<black> = Inches

Length

Example: FMCA9959-12 = 12 inches long cable FMCA9959-100cm = 100 cm long cable

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

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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: SMPS Female to SMP Female Cable FM-P047HF Coax FMCA9959

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-smp-female-cable-fm-p047hf-coax-fmca9959-p.aspx

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