

VITA 67.3 2.4mm Male to SMPS Female Cable FM-P047HF Coax

FMCA100375

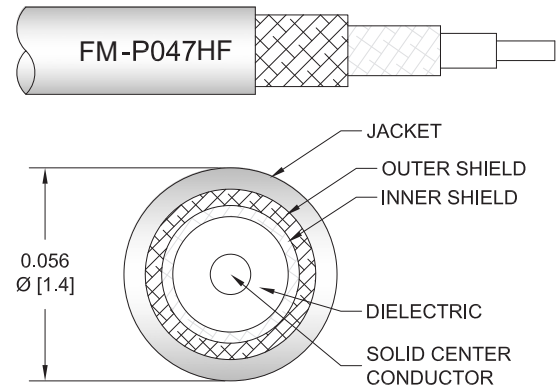


Configuration

- Connector 1: 2.4mm Male
- Connector 2: SMPS Female
- Cable Type: FM-P047HF
- Coax Flex Type: High Flex

Features

- Max Frequency 40 GHz
- Shielding Effectivity > 90 dB
- 70% Phase Velocity
- Double Shielded
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

The 2.4mm male to SMPS female cable using FM-P047HF coax, part number FMCA100375, from Fairview Microwave is in-stock and ships same day. This Fairview 2.4mm to SMPS cable assembly has a male to female gender configuration with 50 ohm high flex FM-P047HF coax. The FMCA100375 2.4mm male to SMPS female cable assembly operates to 40 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	Minimum	Typical	Maximum	Units
Frequency Range	DC		40	GHz
VSWR			1.4:1	
Velocity of Propagation		70		%
RF Shielding	90			dB
Capacitance		29 [95.14]		pF/ft [pF/m]

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	2500	5000	10000	20000	40000	MHz	
FMCA100375	Custom Lengths Available	Insertion Loss (Typ.)	0.557	0.808	1.177	1.784	2.774	dB/ft	
			1.83	2.66	3.87	5.86	9.11	dB/m	
FMCA100375-6	6 In	Insertion Loss (Typ.)	0.45	0.6	0.82	1.18	1.74	dB	0.01
FMCA100375-9	9 In	Insertion Loss (Typ.)	0.59	0.8	1.11	1.62	2.44	dB	0.011
FMCA100375-12	12 In	Insertion Loss (Typ.)	0.73	1	1.41	2.07	3.13	dB	0.012
FMCA100375-18	18 In	Insertion Loss (Typ.)	1	1.41	2	2.96	4.52	dB	0.014
FMCA100375-24	24 In	Insertion Loss (Typ.)	1.28	1.81	2.59	3.85	5.91	dB	0.016

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: 0.04*SQRT(FGHz) dB

Loss due to Connector 2: 0.1 dB

Base Weight: 0.0119 pounds

Additional Weight per Inch: 0.00034 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.012 lbs [5.44 g]

Cable

Cable Type	FM-P047HF
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	PTFE
Number of Shields	2
Shield Layer 1	Silver Plated Copper Tape
Shield Layer 2	Silver Plated Copper Braid
Jacket Material	FEP, Blue
Jacket Diameter	0.06 in [1.52 mm]
Repeated Minimum Bend Radius	0.1 in [2.54 mm]

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Connectors

Description	Connector 1	Connector 2
Type	2.4mm Male	SMPS Female
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles	500	
Contact Material and Plating	Beryllium Copper, Gold over Nickel	Beryllium Copper, Gold
Contact Plating Specification	50 µin minimum	
Dielectric Type	PEI	PTFE
Outer Conductor Material and Plating		Beryllium Copper, Gold
Body Material and Plating	Beryllium Copper, Gold over Nickel	Passivated Stainless Steel
Body Plating Specification	50 µin minimum	
Coupling Nut Material and Plating	Passivated Stainless Steel	
Coupling Nut Plating Specification	ASTM-A582	
Hex Size	5/16 inch	
Torque	8 in-lbs 0.9 Nm	

Environmental Specifications

Operating Range Temperature -65 to +150 deg C

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

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FMCA100375

Typical Performance Data

How to Order

Part Number Configuration: **FMCA100375** **- xx** **uu**

Unit of Measure:
cm = Centimeters
<blank> = Inches

Length

Base Number

Example: FMCA100375-12 = 12 inches long cable
FMCA100375-100cm = 100 cm long cable

VITA 67.3 2.4mm Male to SMPS Female Cable FM-P047HF 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: [VITA 67.3 2.4mm Male to SMPS Female Cable FM-P047HF Coax FMCA100375](#)

URL: <https://www.fairviewmicrowave.com/vita-67.3-2.4mm-male-to-smps-female-cable-fm-p047hf-coax-fmca100375-p.aspx>

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FMCA100375 CAD Drawing

VITA 67.3 2.4mm Male to SMPS Female Cable FM-P047HF Coax

