

VITA 67.3 2.92mm Female to SMPS Female Cable FM-P047HF Coax

FMCA100374

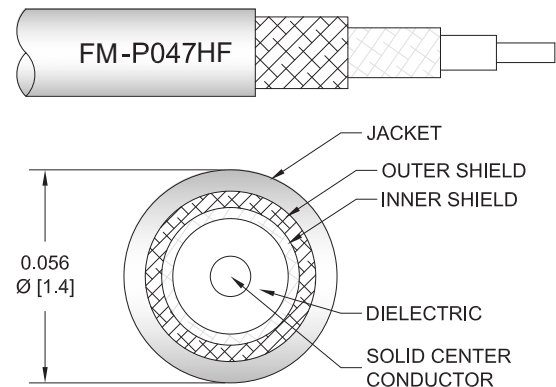


Configuration

- Connector 1: 2.92mm Female
- 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 2.92mm female to SMPS female cable using FM-P047HF coax, part number FMCA100374, from Fairview Microwave is in-stock and ships same day. This Fairview 2.92mm to SMPS cable assembly has a female to female gender configuration with 50 ohm high flex FM-P047HF coax. The FMCA100374 2.92mm female 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	
FMCA100374	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	
FMCA100374-6	6 In	Insertion Loss (Typ.)	0.48	0.61	0.79	1.1	1.59	dB	0.009
FMCA100374-9	9 In	Insertion Loss (Typ.)	0.62	0.81	1.09	1.54	2.29	dB	0.01
FMCA100374-12	12 In	Insertion Loss (Typ.)	0.76	1.01	1.38	1.99	2.98	dB	0.011
FMCA100374-18	18 In	Insertion Loss (Typ.)	1.04	1.42	1.97	2.88	4.37	dB	0.013
FMCA100374-24	24 In	Insertion Loss (Typ.)	1.32	1.82	2.56	3.77	5.75	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 dB
 Loss due to Connector 2: 0.1 dB
 Base Weight: 0.0109 pounds
 Additional Weight per Inch: 0.00034 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter 0.5 in [12.7 mm]
 Weight 0.011 lbs [4.99 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	2.92mm Female	SMPS Female
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
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	Passivated Stainless Steel	Passivated Stainless Steel
Body Plating Specification	SAE-AMS-2700	

Environmental Specifications

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

Plotted and Other Data

Notes:

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FMCA100374

Typical Performance Data

How to Order

Part Number Configuration: **FMCA100374** **- xx** **uu**

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

Length

Base Number

Example: FMCA100374-12 = 12 inches long cable
FMCA100374-100cm = 100 cm long cable

VITA 67.3 2.92mm Female 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.

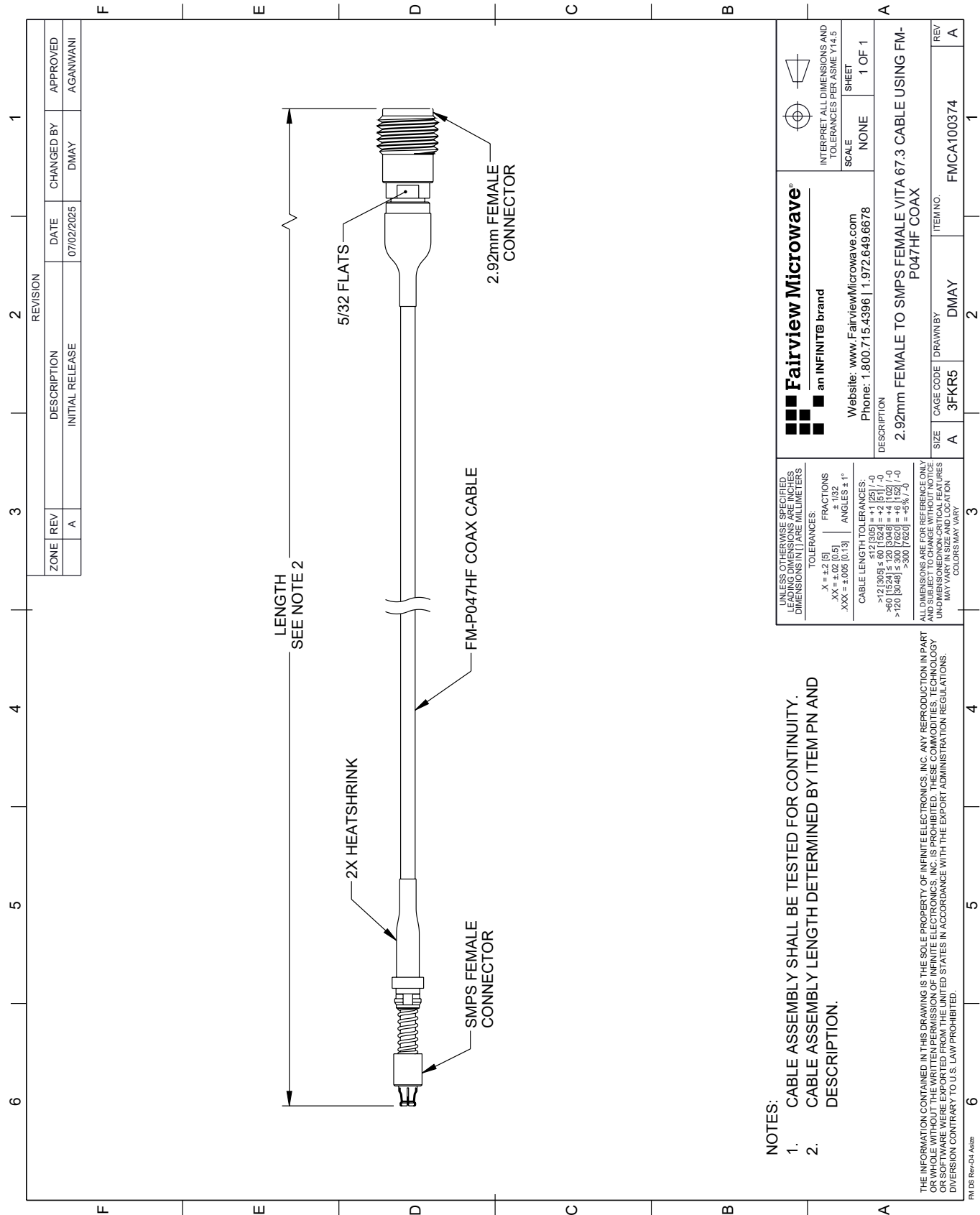
For additional information on this product, please click the following link: [VITA 67.3 2.92mm Female to SMPS Female Cable FM-P047HF Coax FMCA100374](#)

URL: <https://www.fairviewmicrowave.com/vita-67.3-2.92mm-female-to-smps-female-cable-fm-p047hf-coax-fm-ca100374-p.aspx>

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FMCA100374 CAD Drawing

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UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES, UNLESS OTHERWISE NOTED. DIMENSIONS IN [] ARE MILLIMETERS.		Fairview Microwave® an INFINITI® brand		Website: www.FairviewMicrowave.com Phone: 1.800.715.4396 1.972.649.6678		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	
TOLERANCES:		Fractions		NONE		SCALE	
.X = ±.2 [5]		.XX = ±.02 [0.5]		.XXX = ±.005 [0.13]		SHEET	
ANGLES ± 1°		CABLE LENGTH TOLERANCES:		1 OF 1			
>12 [305] ≤ 60 [1524] = ±1 [25] / -0		>60 [1524] ≤ 120 [3048] = ±4 [102] / -0					
>120 [3048] ≤ 300 [7620] = ±5% / -0							
ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNLESS OTHERWISE SPECIFIED, DIMENSIONS MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.		DESCRIPTION		2.92mm FEMALE TO SMPS FEMALE VITA 67.3 CABLE USING FM-P047HF COAX		REV	
		SIZE		A		A	
		CAGE CODE		3FKR5		ITEM NO.	
		DRAWN BY		DMAY		FMCA100374	

NOTES:

- CABLE ASSEMBLY SHALL BE TESTED FOR CONTINUITY.
- CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

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