

## VITA 67.3 SMPS Female to SMA Female Cable FM-SR047CU Coax



### FMCA100363

#### Configuration

- Connector 1: SMPS Female
- Connector 2: SMA Female
- Cable Type: FM-SR047CU-COIL
- Coax Flex Type: Semi-Rigid

#### Features

- Max Frequency 18 GHz

#### Applications

- General Purpose
- Laboratory Use

#### Description

The SMPS female to SMA female cable using FM-SR047CU coax, part number FMCA100363, from Fairview Microwave is in-stock and ships same day. This Fairview SMPS to SMA cable assembly has a female to female gender configuration with 50 ohm semi-rigid FM-SR047CU-COIL coax. Fairview Microwave's semi-rigid RF cable assemblies are ideal for high performance applications and can be formed, using proper tooling, to the routing pattern required. The FMCA100363 SMPS female to SMA female cable assembly operates to 18 GHz.

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		18	GHz
VSWR			1.4:1	

#### Specifications by Frequency

VITA 67.3 SMPS Female to SMA Female  
Cable FM-SR047CU Coax



**FMCA100363**

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency		1000	2000	4500	9000	
FMCA100363	Custom Lengths Available	Insertion Loss (Typ.)	0.4	0.5	0.75	1.2	1.78	dB/ft	
			1.32	1.65	2.47	3.94	5.84	dB/m	
FMCA100363-6	6 In	Insertion Loss (Typ.)	0.4	0.45	0.58	0.8	1.09	dB	0.015
FMCA100363-9	9 In	Insertion Loss (Typ.)	0.5	0.58	0.77	1.1	1.54	dB	0.016
FMCA100363-12	12 In	Insertion Loss (Typ.)	0.6	0.7	0.95	1.4	1.98	dB	0.017
FMCA100363-18	18 In	Insertion Loss (Typ.)	0.8	0.95	1.33	2	2.87	dB	0.019
FMCA100363-24	24 In	Insertion Loss (Typ.)	1	1.2	1.7	2.6	3.76	dB	0.021

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: 0.0169 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-SR047CU-COIL  
 Impedance: 50 Ohms  
 Inner Conductor Type: Solid  
 Inner Conductor Material and Plating: Copper Clad Steel, Silver  
 Dielectric Type: PTFE  
 Number of Shields: 1  
 Outer Conductor 1 Material and Plating: Copper  
 Repeated Minimum Bend Radius: 0.05 in [1.27 mm]

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**FMCA100363**

**Connectors**

Description	Connector 1	Connector 2
Type	SMPS Female	SMA Female
Specification		MIL-STD-348
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Specification		MIL-G-45204
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating	Beryllium Copper, Gold	
Body Material and Plating	Passivated Stainless Steel	Brass, Gold
Body Plating Specification		MIL-G-45204

**Environmental Specifications**

Operating Range Temperature -55 to +100 deg C

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

**Plotted and Other Data**

Notes:

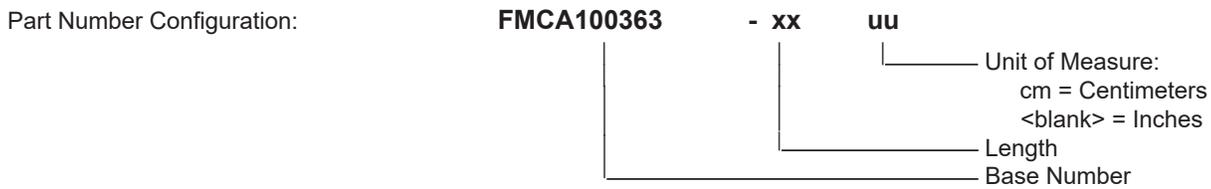
VITA 67.3 SMPS Female to SMA Female  
Cable FM-SR047CU Coax



**FMCA100363**

**Typical Performance Data**

**How to Order**



Example: FMCA100363-12 = 12 inches long cable  
FMCA100363-100cm = 100 cm long cable

VITA 67.3 SMPS Female to SMA Female Cable FM-SR047CU 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.

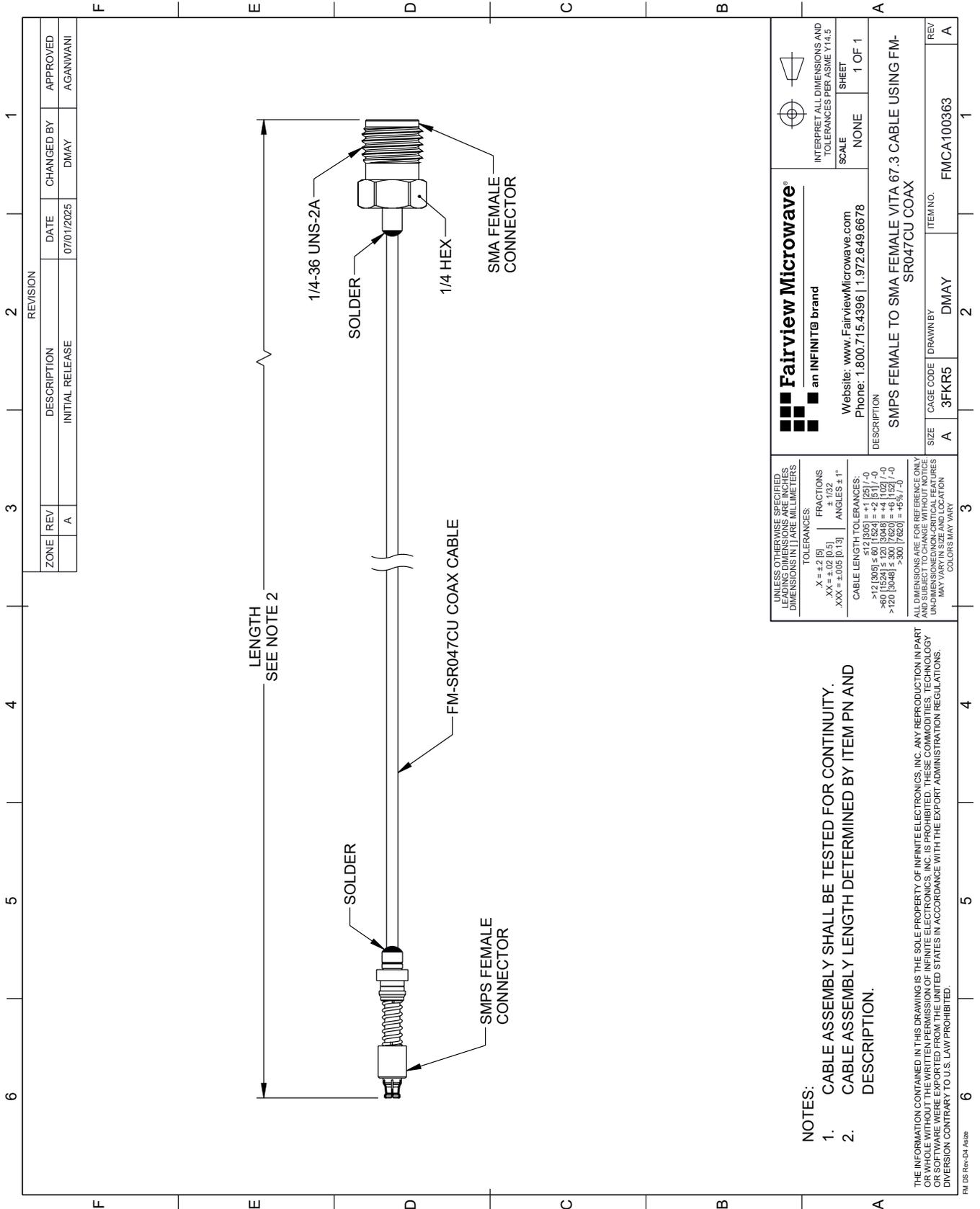
For additional information on this product, please click the following link: [VITA 67.3 SMPS Female to SMA Female Cable FM-SR047CU Coax FMCA100363](#)

URL: <https://www.fairviewmicrowave.com/vita-67.3-smps-female-to-sma-female-cable-fm-sr047cu-coax-fmca100363-p.aspx>

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# FMCA100363 CAD Drawing

VITA 67.3 SMPS Female to SMA Female Cable FM-SR047CU Coax



**Fairview Microwave®**  
an INFINIT® brand

Website: [www.FairviewMicrowave.com](http://www.FairviewMicrowave.com)  
Phone: 1.800.715.4396 | 1.972.649.6678

UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES AND TRAILING DIMENSIONS ARE IN MILLIMETERS.

TOLERANCES:  
 .X = ±.2 [5]  
 .XX = ±.02 [0.5]  
 .XXX = ±.005 [0.13]  
 FRACTIONS ± 1/32  
 ANGLES ± 1°

CABLE LENGTH TOLERANCES:  
 <12 [305] ±.60 [15.24] = ±.2 [5] / -0  
 >12 [305] ≤ 60 [1524] = ±.4 [10.2] / -0  
 >60 [1524] ≤ 120 [3048] = ±.4 [10.2] / -0  
 >120 [3048] ≤ 300 [7620] = ±.6 [15.2] / -0  
 >300 [7620] = ±.6 [15.2] / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE UNDIMENSIONED/NON-CRITICAL FEATURES. MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE NONE SHEET 1 OF 1

DESCRIPTION: SMPS FEMALE TO SMA FEMALE VITA 67.3 CABLE USING FM-SR047CU COAX

SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	3FKR5	DMAY	FMCA100363

**NOTES:**

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

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FM DS Rev-D4 Alt2