

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



FMCA100364

Configuration

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

Features

- Max Frequency 18 GHz

Applications

- General Purpose
- Laboratory Use

Description

The SMA male to SMPS female cable using FM-SR047CU coax, part number FMCA100364, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to SMPS cable assembly has a male 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 FMCA100364 SMA male to SMPS 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

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency		1000	2000	4500	9000	
FMCA100364	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	
FMCA100364-6	6 In	Insertion Loss (Typ.)	0.4	0.45	0.58	0.8	1.09	dB	0.015
FMCA100364-9	9 In	Insertion Loss (Typ.)	0.5	0.58	0.77	1.1	1.54	dB	0.016
FMCA100364-12	12 In	Insertion Loss (Typ.)	0.6	0.7	0.95	1.4	1.98	dB	0.017
FMCA100364-18	18 In	Insertion Loss (Typ.)	0.8	0.95	1.33	2	2.87	dB	0.019
FMCA100364-24	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: 0.017 lbs [7.71 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
 Jacket Material: Tan
 Repeated Minimum Bend Radius: 0.05 in [1.27 mm]

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Connectors

Description	Connector 1	Connector 2
Type	SMA 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	MIL-G-45204	
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating		Beryllium Copper, Gold
Body Material and Plating	Brass, Gold	Passivated Stainless Steel
Body Plating Specification	MIL-G-45204	
Coupling Nut Material and Plating	Passivated Stainless Steel	
Coupling Nut Plating Specification	ASTM-A380	
Hex Size	5/16 inch	
Torque	8 in-lbs 0.9 Nm	

Environmental Specifications

Operating Range Temperature -55 to +100 deg C

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

Plotted and Other Data

Notes:

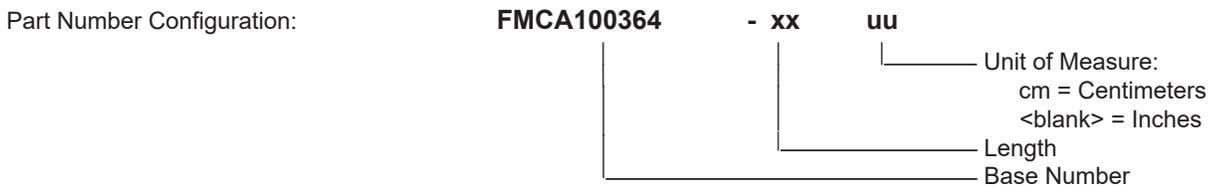
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Typical Performance Data

How to Order



Example: FMCA100364-12 = 12 inches long cable
FMCA100364-100cm = 100 cm long cable

VITA 67.3 SMA Male to SMPS 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.

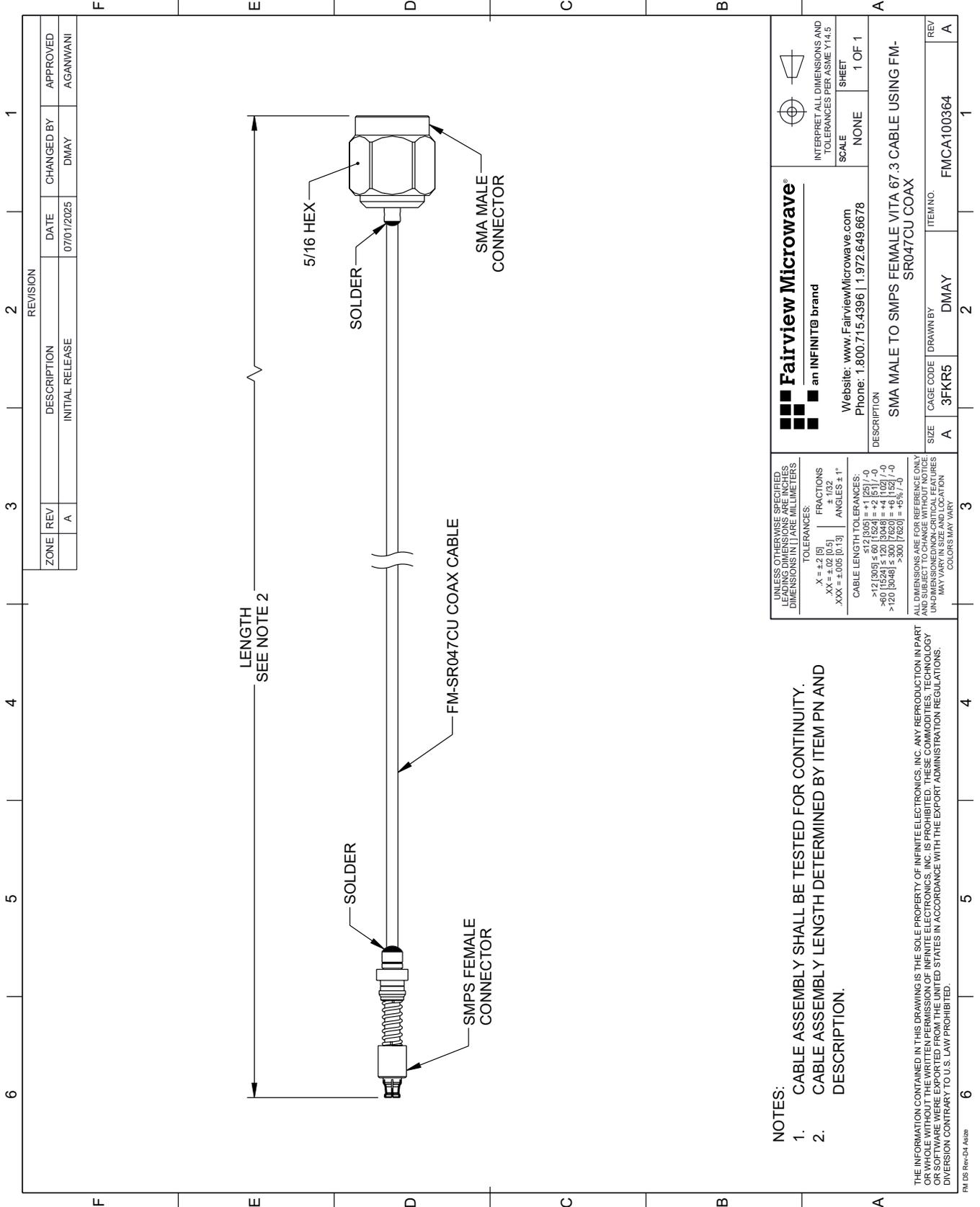
For additional information on this product, please click the following link: [VITA 67.3 SMA Male to SMPS Female Cable FM-SR047CU Coax FMCA100364](https://www.fairviewmicrowave.com/vita-67.3-sma-male-to-smps-female-cable-fm-sr047cu-coax-fmca100364)

URL: <https://www.fairviewmicrowave.com/vita-67.3-sma-male-to-smps-female-cable-fm-sr047cu-coax-fmca100364-p.aspx>

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FMCA100364 CAD Drawing

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



REVISION		DATE	CHANGED BY	APPROVED
ZONE	REV			
	A	07/01/2025	DMAY	AGANWANI
DESCRIPTION				
INITIAL RELEASE				

Fairview Microwave®
an INFINITI® brand

Website: www.FairviewMicrowave.com
Phone: 1.800.715.4396 | 1.972.649.6678

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

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

CABLE LENGTH TOLERANCES:
 >12 [305] ≤ 60 [1524] = ±.1 [25] / -0
 >60 [1524] ≤ 120 [3048] = ±.4 [102] / -0
 >120 [3048] ≤ 300 [7620] = ±.6 [152] / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNDIMENSIONED/UNCLEAR 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: SMA MALE TO SMPS FEMALE VITA 67.3 CABLE USING FM-SR047CU COAX

SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	3FKR5	DMAY	FMCA100364

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 Alt2b