

VITA 67.3 SMPS Female to 2.92mm
Male Cable FM-SR047CU Coax



FMCA100365

Configuration

- Connector 1: SMPS Female
- Connector 2: 2.92mm Male
- Cable Type: FM-SR047CU-COIL
- Coax Flex Type: Semi-Rigid

Features

- Max Frequency 40 GHz

Applications

- General Purpose
- Laboratory Use

Description

The SMPS female to 2.92mm male cable using FM-SR047CU coax, part number FMCA100365, from Fairview Microwave is in-stock and ships same day. This Fairview SMPS to 2.92mm cable assembly has a female to male 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 FMCA100365 SMPS female to 2.92mm male cable assembly operates to 40 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		40	GHz
VSWR			1.4:1	

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	Units	Weight (lbs)
			Frequency	2500	5000	10000	20000	
FMCA100365	Custom Lengths Available	Insertion Loss (Typ.)	0.55	0.8	1.3	1.9	dB/ft	
			1.81	2.63	4.27	6.24	dB/m	
FMCA100365-6	6 In	Insertion Loss (Typ.)	0.48	0.6	0.85	1.15	dB	0.011
FMCA100365-9	9 In	Insertion Loss (Typ.)	0.62	0.8	1.18	1.63	dB	0.012
FMCA100365-12	12 In	Insertion Loss (Typ.)	0.75	1	1.5	2.1	dB	0.013
FMCA100365-18	18 In	Insertion Loss (Typ.)	1.03	1.4	2.15	3.05	dB	0.015
FMCA100365-24	24 In	Insertion Loss (Typ.)	1.3	1.8	2.8	4	dB	0.017

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: 0.0129 pounds
 Additional Weight per Inch: 0.00034 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter: 0.5 in [12.7 mm]
 Weight: 0.013 lbs [5.9 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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Connectors

Description	Connector 1	Connector 2
Type	SMPS Female	2.92mm Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold over Nickel
Contact Plating Specification		50 µin minimum
Dielectric Type	PTFE	PEI
Outer Conductor Material and Plating	Beryllium Copper, Gold	
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel
Body Plating Specification		SAE-AMS-2700
Coupling Nut Material and Plating		Passivated Stainless Steel
Coupling Nut Plating Specification		SAE-AMS-2700
Hex Size		5/16 inch
Torque		8 in-lbs 0.9 Nm

Environmental Specifications

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

Plotted and Other Data

Notes:

VITA 67.3 SMPS Female to 2.92mm Male Cable FM-SR047CU Coax



FMCA100365

Typical Performance Data

How to Order

Part Number Configuration:

FMCA100365

- **xx**

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Unit of Measure:
cm = Centimeters
<blank> = Inches
Length
Base Number

Example: FMCA100365-12 = 12 inches long cable
FMCA100365-100cm = 100 cm long cable

VITA 67.3 SMPS Female to 2.92mm Male 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.

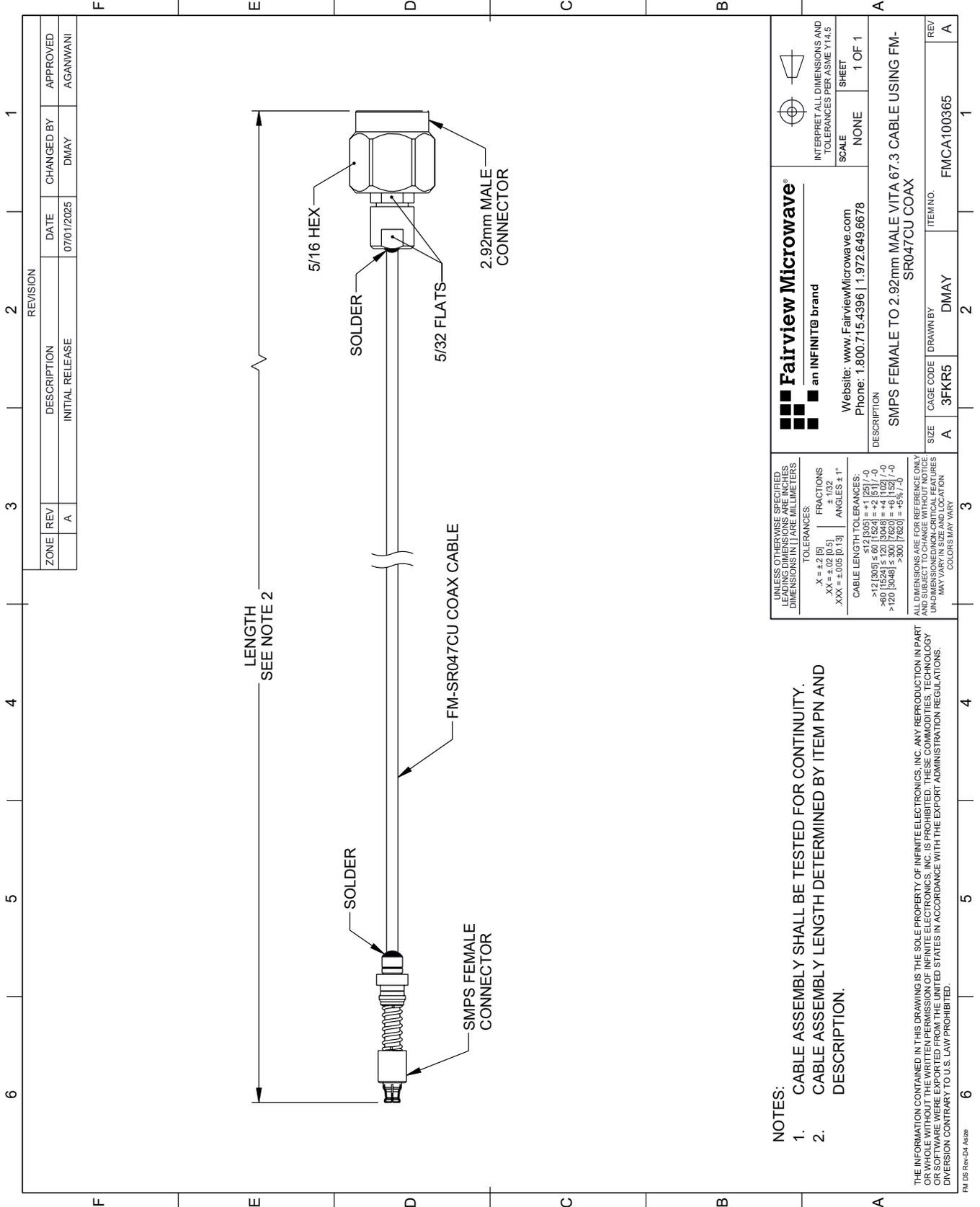
For additional information on this product, please click the following link: [VITA 67.3 SMPS Female to 2.92mm Male Cable FM-SR047CU Coax FMCA100365](#)

URL: <https://www.fairviewmicrowave.com/vita-67.3-smps-female-to-2.92mm-male-cable-fm-sr047cu-coax-fm-ca100365-p.aspx>

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FMCA100365 CAD Drawing

VITA 67.3 SMPS Female to 2.92mm Male Cable FM-SR047CU Coax



NOTES:

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

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

TOLERANCES:

.X = ±.2 (5)	FRACTIONS ± 1/32
.XX = ±.02 (0.5)	ANGLES ± 1°
.XXX = ±.005 (0.13)	

CABLE LENGTH TOLERANCES:

>12 (305) ≤ 60 (1524) = ±.1 (25) / -0
>60 (1524) ≤ 120 (3048) = ±.4 (102) / -0
>120 (3048) ≤ 300 (7620) = ±.6 (15) / -0

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

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INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE
SHEET: 1 OF 1

DESCRIPTION: SMPS FEMALE TO 2.92mm MALE VITA 67.3 CABLE USING FM-SR047CU COAX

SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	3FKR5	DMAY	FMCA100365

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FM DS Rev-D4 Alt2b