Non-Magnetic RA SMP Female to SMP Female Cable FM-SR047CU-NM Coax



FMCA100391

Configuration

- Connector 1: SMP Female Right Angle
- Connector 2: SMP Female
- Cable Type: FM-SR047CU-NM
- Coax Flex Type: Semi-Rigid

Features

- Max Frequency 8 GHz
- Shielding Effectivity > 165 dB
- 69.5% Phase Velocity

Applications

- General Purpose
- Laboratory Use

Description

The RA SMP female to SMP female cable using FM-SR047CU-NM coax, part number FMCA100391, from Fairview Microwave is in-stock and ships same day. This Fairview SMP to SMP cable assembly has a female to female gender configuration with 50 ohm semi-rigid FM-SR047CU-NM 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 FMCA100391 SMP female to SMP female cable assembly operates to 8 GHz. The right angle SMP interface on the FM-SR047CU-NM cable allows for easier connections in tight spaces.

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		8	GHz
VSWR			1.7:1	
Velocity of Propagation		69.5		%
RF Shielding	165			dB

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	500	1000	2000	4000	8000	MHz	
FMCA100391	Custom Lengths Available	Insertion Loss (Typ.)	0.24	0.34	0.45	0.67	1	dB/ft	
			0.79	1.12	1.48	2.2	3.29	dB/m	
FMCA100391-6	6 in	Insertion Loss (Typ.)	0.35	0.4	0.47	0.6	0.79	dB	0.104
FMCA100391-9	9 in	Insertion Loss (Typ.)	0.41	0.49	0.58	0.77	1.04	dB	0.105
FMCA100391-12	12 in	Insertion Loss (Typ.)	0.47	0.57	0.7	0.93	1.29	dB	0.106
FMCA100391-18	18 in	Insertion Loss (Typ.)	0.59	0.74	0.92	1.27	1.79	dB	0.109
FMCA100391-24	24 in	Insertion Loss (Typ.)	0.71	0.91	1.15	1.6	2.29	dB	0.111

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:	0.2	dB
Loss due to Connector 2:	0.03*SQRT(FGHz)	dB
Base Weight:	0.106	pounds
Additional Weight per Inch:	0.00034	pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.106 lbs [48.08 g]

Cable

Cable Type	FM-SR047CU-NM
Impedance	50 Ohms
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	PTFE
Outer Conductor 1 Material and Plating	Copper
One Time Minimum Bend Radius	0.05 in [1.27 mm]

Connectors

Description	Connector 1	Connector 2
Type	SMP Female Right Angle	SMP Female
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Straight
Mating Cycles	500	
Contact Material and Plating	Beryllium Copper, Gold over Copper	Beryllium Copper, Gold
Dielectric Type		Gold Plated Beryllium Copper
Body Material and Plating	Bronze, Copper-Tin-Zinc Alloy over Silver	Beryllium Copper, Gold

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Environmental Specifications

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Typical Performance Data

How to Order

Part Number Configuration: **FMCA100391 - xx uu**

- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- FMCA100391 — Base Number

Example: FMCA100391-12 = 12 inches long cable
FMCA100391-100cm = 100 cm long cable

Non-Magnetic RA SMP Female to SMP Female Cable FM-SR047CU-NM 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: Non-Magnetic RA SMP Female to SMP Female Cable FM-SR047CU-NM Coax FMCA100391

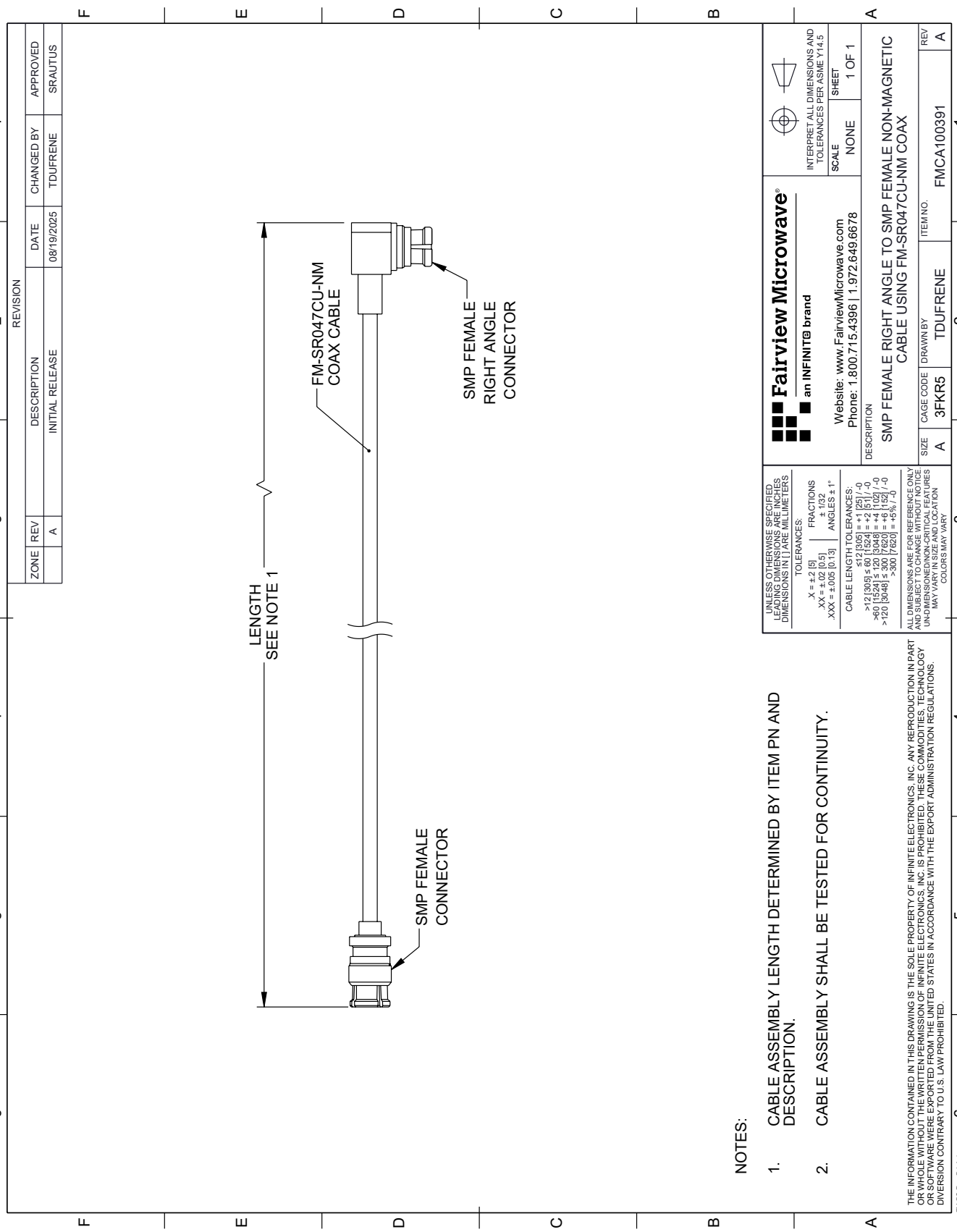
URL: https://www.fairviewmicrowave.com/non-magnetic-ra-smp-female-to-smp-female-cable-fm-sr047cu-nm-coax-fm-ca100391

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FMCA100391 CAD Drawing

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