

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



### FMCA100389

#### Configuration

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

#### Features

- Max Frequency 12.4 GHz
- Shielding Effectivity > 165 dB
- 69.5% Phase Velocity

#### Applications

- General Purpose
- Laboratory Use

#### Description

The SMA male to RA SMP female cable using FM-SR047CU-NM coax, part number FMCA100389, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to SMP cable assembly has a male 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 FMCA100389 SMA male to SMP female cable assembly operates to 12.4 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		12.4	GHz
VSWR			1.4:1	
Velocity of Propagation		69.5		%
RF Shielding	165			dB

#### Specifications by Frequency

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

**FMCA100389**



Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	500	1000	2500	5000	12400	MHz	
FMCA100389	Custom Lengths Available	Insertion Loss (Typ.)	0.24	0.34	0.508	0.79	1.26	dB/ft	
			0.79	1.12	1.67	2.6	4.14	dB/m	
FMCA100389-6	6 inch	Insertion Loss (Typ.)	0.27	0.32	0.43	0.59	0.86	dB	0.104
FMCA100389-9	9 inch	Insertion Loss (Typ.)	0.33	0.41	0.55	0.78	1.18	dB	0.105
FMCA100389-12	12 inch	Insertion Loss (Typ.)	0.39	0.49	0.68	0.98	1.49	dB	0.106
FMCA100389-18	18 inch	Insertion Loss (Typ.)	0.51	0.66	0.93	1.38	2.12	dB	0.109
FMCA100389-24	24 inch	Insertion Loss (Typ.)	0.63	0.83	1.19	1.77	2.75	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: 0.12 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	SMA Male	SMP Female Right Angle
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Right Angle
Mating Cycles		500
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold over Copper
Dielectric Type	PTFE	
Body Material and Plating	Beryllium Copper, Gold	Bronze, Copper-Tin-Zinc Alloy over Silver
Coupling Nut Material and Plating	Beryllium Copper, Gold	
Torque	7 in-lbs 0.79 Nm	

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



### FMCA100389

#### Environmental Specifications

**Compliance Certifications** (see product page for current document)

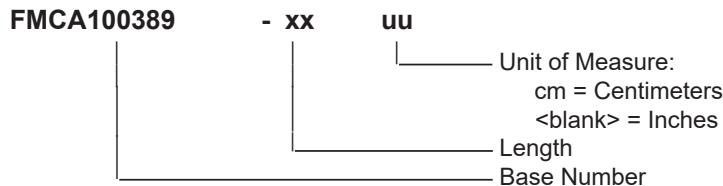
#### Plotted and Other Data

Notes:

#### Typical Performance Data

#### How to Order

Part Number Configuration:



Example: FMCA100389-12 = 12 inches long cable  
FMCA100389-100cm = 100 cm long cable

Non-Magnetic SMA Male to RA 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 SMA Male to RA SMP Female Cable FM-SR047CU-NM Coax FMCA100389](#)

URL: <https://www.fairviewmicrowave.com/non-magnetic-sma-male-to-ra-smp-female-cable-fm-sr047cu-nm-coax-fm-ca100389-p.aspx>

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume liability arising out of the use of any part or document.

# FMCA100389 CAD Drawing

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

