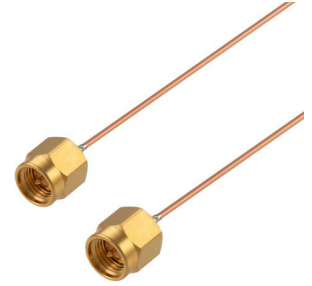


## Non-Magnetic SMA Male to SMA Male Cable FM-SR047CU-NM Coax

### FMCA100382



#### Configuration

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

#### Features

- Max Frequency 32 GHz
- Shielding Effectivity > 165 dB
- 69.5% Phase Velocity

#### Applications

- General Purpose
- Laboratory Use

#### Description

The SMA male to SMA male cable using FM-SR047CU-NM coax, part number FMCA100382, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to SMA cable assembly has a male to male 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 FMCA100382 SMA male to SMA male cable assembly operates to 32 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.

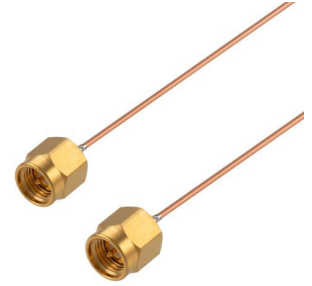
#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		32	GHz
VSWR			1.4:1	
Velocity of Propagation		69.5		%
RF Shielding	165			dB

#### Specifications by Frequency

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

### FMCA100382



Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	2500	5000	10000	18000	32000	MHz	
FMCA100382	Custom Lengths Available	Insertion Loss (Typ.)	0.508	0.79	1.14	1.56	2.14	dB/ft	
			1.67	2.6	3.75	5.12	7.03	dB/m	
FMCA100382-6	6 inch	Insertion Loss (Typ.)	0.35	0.53	0.76	1.04	1.41	dB	0.202
FMCA100382-9	9 inch	Insertion Loss (Typ.)	0.48	0.73	1.05	1.43	1.95	dB	0.203
FMCA100382-12	12 inch	Insertion Loss (Typ.)	0.61	0.93	1.33	1.82	2.48	dB	0.204
FMCA100382-18	18 inch	Insertion Loss (Typ.)	0.86	1.32	1.9	2.6	3.55	dB	0.207
FMCA100382-24	24 inch	Insertion Loss (Typ.)	1.12	1.72	2.47	3.38	4.62	dB	0.209

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: 0.03\*SQRT(FGHz) dB  
 Loss due to Connector 2: 0.03\*SQRT(FGHz) dB  
 Base Weight: 0.204 pounds  
 Additional Weight per Inch: 0.00034 pounds

### Mechanical Specifications

#### Cable Assembly

Width/Diameter 0.5 in [12.7 mm]  
 Weight 0.204 lbs [92.53 g]

#### Cable

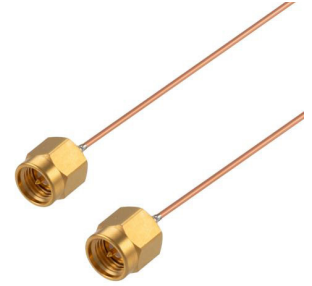
Cable Type FM-SR047CU-NM  
 Impedance 50 Ohms  
 Inner Conductor Material and Plating Copper, Silver  
 Dielectric Type PTFE  
 Outer Conductor 1 Material and Plating Copper  
 One Time Minimum Bend Radius 0.05 in [1.27 mm]

### Connectors

Description	Connector 1	Connector 2
Type	SMA Male	SMA Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Dielectric Type	PTFE	PTFE
Body Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Coupling Nut Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Torque	7 in-lbs 0.79 Nm	7 in-lbs 0.79 Nm

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

**FMCA100382**



### Environmental Specifications

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

### Plotted and Other Data

Notes:

### Typical Performance Data

### How to Order

Part Number Configuration:

**FMCA100382**

**- xx**

**uu**

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

Example: FMCA100382-12 = 12 inches long cable  
FMCA100382-100cm = 100 cm long cable

Non-Magnetic SMA Male to SMA Male 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 SMA Male Cable FM-SR047CU-NM Coax FMCA100382](#)

URL: <https://www.fairviewmicrowave.com/non-magnetic-sma-male-to-sma-male-cable-fm-sr047cu-nm-coax-fm-ca100382-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.

FMCA100382 CAD Drawing
Non-Magnetic SMA Male to SMA Male Cable FM-SR047CU-NM Coax

