

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



### FMCA100384

#### Configuration

- Connector 1: SMA Male
- Connector 2: SMP Female
- 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 SMP female cable using FM-SR047CU-NM coax, part number FMCA100384, 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 FMCA100384 SMA male to SMP female 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

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| Part Number   | Length                   | Description           | F1    | F2   | F3    | F4    | F5    | Units | Weight (lbs) |
|---------------|--------------------------|-----------------------|-------|------|-------|-------|-------|-------|--------------|
|               |                          | Frequency             | 2500  | 5000 | 10000 | 18000 | 32000 | MHz   |              |
| FMCA100384    | 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  |              |
| FMCA100384-6  | 6 inch                   | Insertion Loss (Typ.) | 0.35  | 0.53 | 0.76  | 1.04  | 1.41  | dB    | 0.202        |
| FMCA100384-9  | 9 inch                   | Insertion Loss (Typ.) | 0.48  | 0.73 | 1.05  | 1.43  | 1.95  | dB    | 0.203        |
| FMCA100384-12 | 12 inch                  | Insertion Loss (Typ.) | 0.61  | 0.93 | 1.33  | 1.82  | 2.48  | dB    | 0.204        |
| FMCA100384-18 | 18 inch                  | Insertion Loss (Typ.) | 0.86  | 1.32 | 1.9   | 2.6   | 3.55  | dB    | 0.207        |
| FMCA100384-24 | 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               | SMP Female                   |
| Impedance                         | 50 Ohms                | 50 Ohms                      |
| Configuration                     | Straight               | Straight                     |
| Contact Material and Plating      | Beryllium Copper, Gold | Beryllium Copper, Gold       |
| Dielectric Type                   | PTFE                   | Gold Plated Beryllium Copper |
| Body Material and Plating         | Beryllium Copper, Gold | Beryllium Copper, Gold       |
| Coupling Nut Material and Plating | Beryllium Copper, Gold |                              |
| Torque                            | 7 in-lbs 0.79 Nm       |                              |

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**FMCA100384**

### Environmental Specifications

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

### Plotted and Other Data

Notes:

### Typical Performance Data

### How to Order

Part Number Configuration:

**FMCA100384 - xx uu**

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

Example: FMCA100384-12 = 12 inches long cable  
FMCA100384-100cm = 100 cm long cable

Non-Magnetic SMA Male 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.

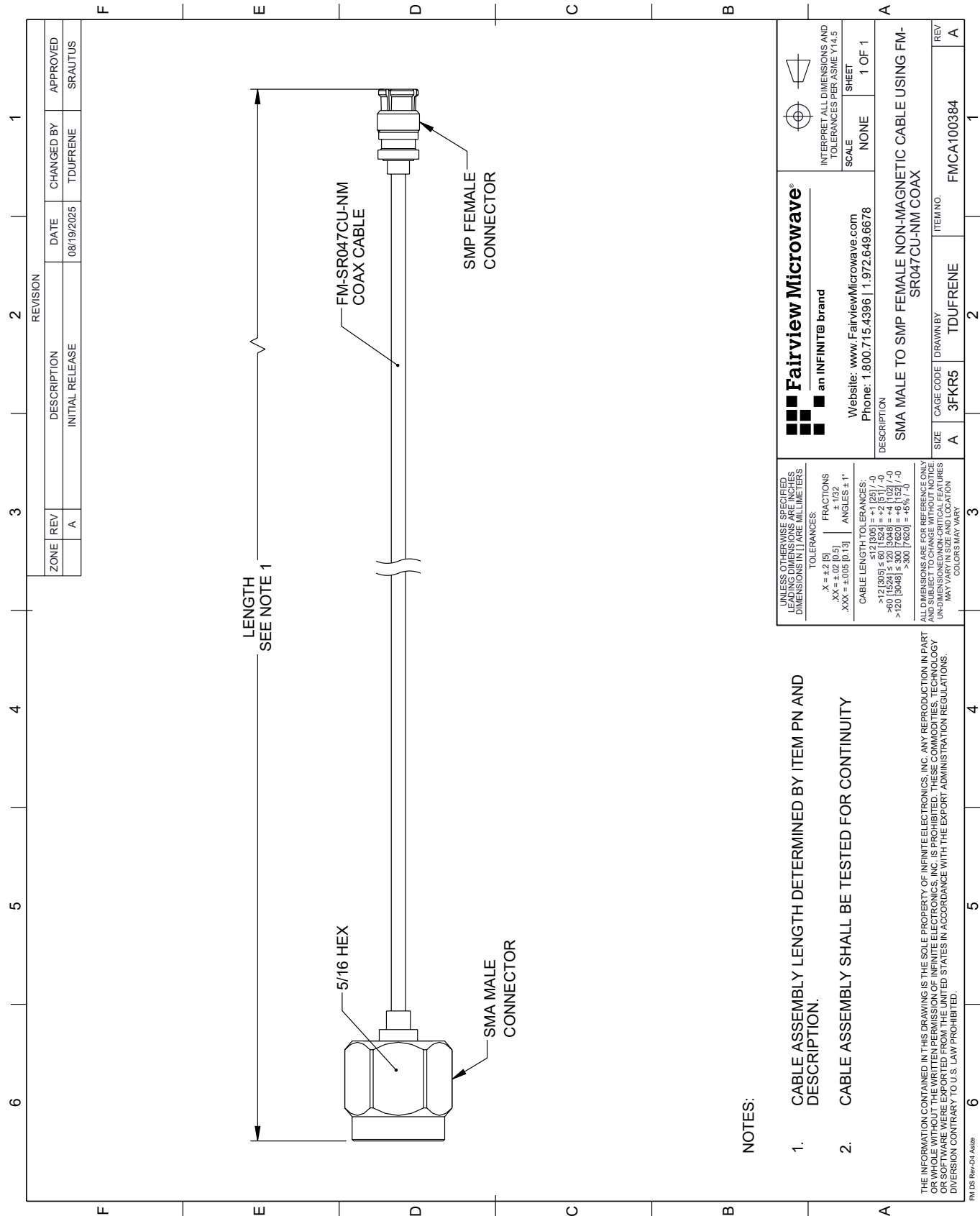
For additional information on this product, please click the following link: [Non-Magnetic SMA Male to SMP Female Cable FM-SR047CU-NM Coax FMCA100384](#)

URL: <https://www.fairviewmicrowave.com/non-magnetic-sma-male-to-smp-female-cable-fm-sr047cu-nm-coax-fm-ca100384-p.aspx>

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FMCA100384 CAD Drawing

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



NOTES:

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

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