# Non-Magnetic 2.92mm Male to RA SMP Female Cable FM-SR047CU-NM Coax

## FMCA100390

### Configuration

- Connector 1:  2.92mm Male
- Connector 2:  SMP Female Right Angle
- 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 2.92mm male to RA SMP female cable using FM-SR047CU-NM coax, part number FMCA100390, from Fairview Microwave is in-stock and ships same day. This Fairview 2.92mm 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 FMCA100390 2.92mm male 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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## FMCA100390

| Part Number | Length | Description | F1 | F2 | F3 | F4 | F5 | Units | Weight (lbs) |
|---|---|---|---|---|---|---|---|---|---|
| | | Frequency | 500 | 1000 | 2000 | 4000 | 8000 | MHz | |
| FMCA100390 | 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 | |
| FMCA100390-6 | 6 in | Insertion Loss (Typ.) | 0.35 | 0.4 | 0.47 | 0.6 | 0.79 | dB | 0.104 |
| FMCA100390-9 | 9 in | Insertion Loss (Typ.) | 0.41 | 0.49 | 0.58 | 0.77 | 1.04 | dB | 0.105 |
| FMCA100390-12 | 12 in | Insertion Loss (Typ.) | 0.47 | 0.57 | 0.7 | 0.93 | 1.29 | dB | 0.106 |
| FMCA100390-18 | 18 in | Insertion Loss (Typ.) | 0.59 | 0.74 | 0.92 | 1.27 | 1.79 | dB | 0.109 |
| FMCA100390-24 | 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 | 2.92mm 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 | PEI | |
| Body Material and Plating | Beryllium Copper, Gold | Bronze, Copper-Tin-Zinc Alloy over Silver |
| Coupling Nut Material and Plating | Beryllium Copper, Gold | |


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# Non-Magnetic 2.92mm Male to RA SMP Female Cable FM-SR047CU-NM Coax

## FMCA100390

### Environmental Specifications

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

### Plotted and Other Data

Notes:

### Typical Performance Data

### How to Order

Part Number Configuration: **FMCA100390 - xx uu**

- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- FMCA100390 — Base Number

Example: FMCA100390-12 = 12 inches long cable
FMCA100390-100cm = 100 cm long cable

Non-Magnetic 2.92mm 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 2.92mm Male to RA SMP Female Cable FM-SR047CU-NM Coax FMCA100390

URL: https://www.fairviewmicrowave.com/non-magnetic-2.92mm-male-to-ra-smp-female-cable-fm-sr047cu-nm-coax-fm-ca100390

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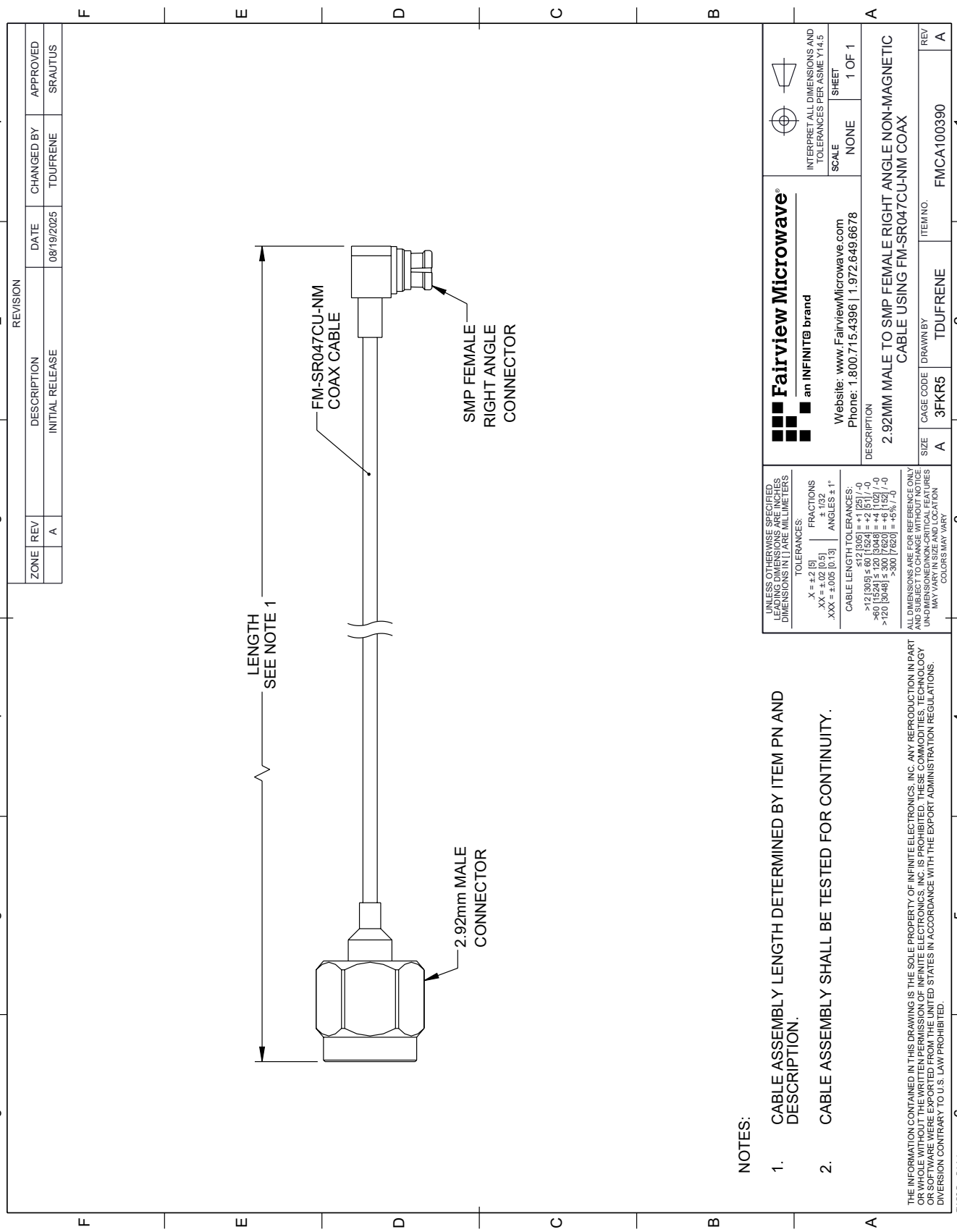
# FMCA100390 CAD Drawing

Non-Magnetic 2.92mm Male to RA SMP Female Cable FM-SR047CU-NM Coax



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