# Non-Magnetic SMA Male to SMA Male Cable FM-SR141-NM Coax



## FMCA100394

### Configuration

- Connector 1:  SMA Male
- Connector 2:  SMA Male
- Cable Type: FM-SR141-NM
- Coax Flex Type: Semi-Rigid

### Features

- Max Frequency 18 GHz
- Shielding Effectivity > 165 dB
- 69.5% Phase Velocity
- Copper Jacket
- 500 Mating Cycles

### Applications

- General Purpose
- Laboratory Use

### Description

The SMA male to SMA male cable using FM-SR141-NM coax, part number FMCA100394, 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-SR141-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 FMCA100394 SMA male to SMA male cable assembly operates to 18 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 | | 18 | 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 | 1000 | 2000 | 4500 | 9000 | 18000 | MHz | |
| FMCA100394 | Custom Lengths Available | Insertion Loss (Typ.) | 0.111 | 0.153 | 0.259 | 0.403 | 0.636 | dB/ft | |
| | | | 0.37 | 0.51 | 0.85 | 1.33 | 2.09 | dB/m | |
| FMCA100394-6 | 6 inch | Insertion Loss (Typ.) | 0.4 | 0.42 | 0.47 | 0.54 | 0.66 | dB | 0.014 |
| FMCA100394-12 | 12 inch | Insertion Loss (Typ.) | 0.45 | 0.5 | 0.6 | 0.75 | 0.98 | dB | 0.023 |
| FMCA100394-24 | 24 inch | Insertion Loss (Typ.) | 0.56 | 0.65 | 0.86 | 1.15 | 1.61 | dB | 0.042 |
| FMCA100394-36 | 36 inch | Insertion Loss (Typ.) | 0.68 | 0.8 | 1.12 | 1.55 | 2.25 | dB | 0.06 |
| FMCA100394-60 | 60 inch | Insertion Loss (Typ.) | 0.9 | 1.11 | 1.64 | 2.36 | 3.52 | dB | 0.097 |

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: | 0.169 | dB |
| Loss due to Connector 2: | 0.169 | dB |
| Base Weight: | 0.023 | pounds |
| Additional Weight per Inch: | 0.00153 | pounds |

## Mechanical Specifications

### Cable Assembly

| | |
|---|---|
| Width/Diameter | 0.5 in [12.7 mm] |
| Weight | 0.023 lbs [10.43 g] |

### Cable

| | |
|---|---|
| Cable Type | FM-SR141-NM |
| Impedance | 50 Ohms |
| Inner Conductor Type | Solid |
| Inner Conductor Material and Plating | Silver Plated Copper |
| Dielectric Type | PTFE |
| Number of Shields | 1 |
| Outer Conductor 1 Material and Plating | Copper |
| Jacket Material | Copper |
| Repeated Minimum Bend Radius | 0.25 in [6.35 mm] |


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### Connectors

| Description | Connector 1 | Connector 2 |
|---|---|---|
| Type | SMA Male | SMA Male |
| Impedance | 50 Ohms | 50 Ohms |
| Configuration | Straight | Straight |
| Mating Cycles | 500 | 500 |
| Contact Material and Plating | Gold | Gold |
| Contact Plating Specification | MIL-G-45204 | MIL-G-45204 |
| Dielectric Type | PTFE | PTFE |
| Body Material and Plating | Brass, Gold | Brass, Gold |
| Body Plating Specification | ASTM-B-16 | ASTM-B-16 |
| Coupling Nut Material and Plating | Brass, Gold | Brass, Gold |
| Coupling Nut Plating Specification | ASTM-B-16 | ASTM-B-16 |

### Environmental Specifications

| | |
|---|---|
| Operating Range Temperature | -55 to +125 deg C |

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

### Plotted and Other Data

Notes:


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## FMCA100394

### Typical Performance Data

### How to Order

Part Number Configuration: **FMCA100394 - xx uu**

- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- FMCA100394 — Base Number

Example: FMCA100394-12 = 12 inches long cable
FMCA100394-100cm = 100 cm long cable

Non-Magnetic SMA Male to SMA Male Cable FM-SR141-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-SR141-NM Coax FMCA100394

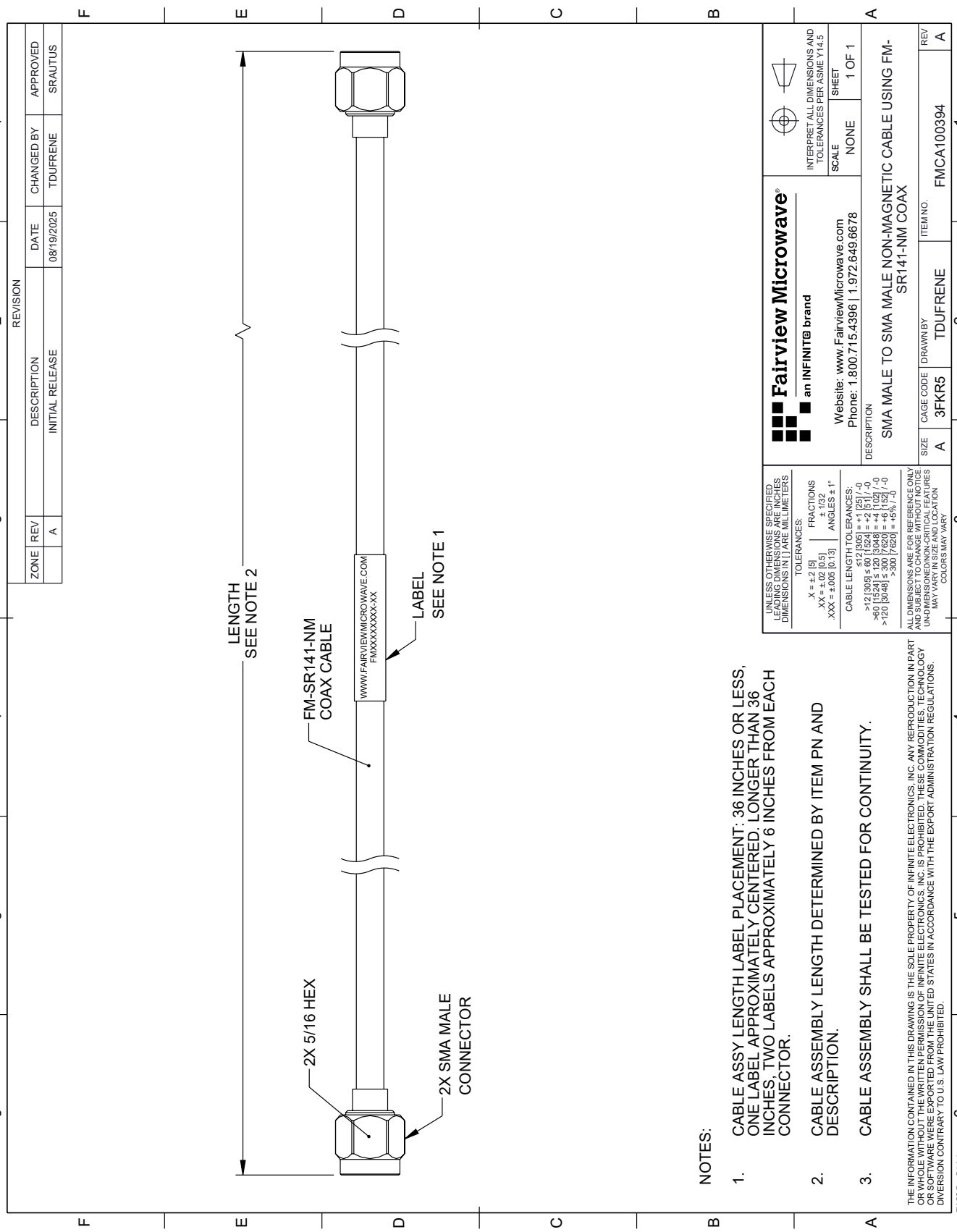
URL: https://www.fairviewmicrowave.com/non-magnetic-sma-male-to-sma-male-cable-fm-sr141-nm-coax-fm-ca100394-p.aspx

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# FMCA100394 CAD Drawing

Non-Magnetic SMA Male to SMA Male Cable FM-SR141-NM Coax






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