

# SMA Female to N Female Cable in 48 Inch Length Using RG223 Coax

The SMA female to type N female cable using RG223 coax, part number FMCA2747-48, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to type N cable assembly has a female to female gender configuration with 50 ohm flexible RG223 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA2747-48 SMA female to type N female cable assembly operates to 5.8 GHz. The double shielding of this Fairview cable assembly provides excellent shielding effectiveness.

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             | Min | Т      | ур    | Max   | ι    | Inits    |
|-------------------------|-----|--------|-------|-------|------|----------|
| Frequency Range         | DC  |        |       | 5.8   |      | GHz      |
| VSWR                    |     |        |       | 1.4:1 |      |          |
| Velocity of Propagation |     | (      | 66    |       |      | %        |
| Capacitance             |     | 30.8 [ | 101.0 | 5]    | pF/f | : [pF/m] |
| Operating Voltage (AC)  |     |        |       | 500   | \    | /rms     |
|                         |     |        |       |       |      |          |

### **Performance by Frequency**

| F1   | F2           | F3                    | F4                          | F5                                   | Units   |
|------|--------------|-----------------------|-----------------------------|--------------------------------------|---|
| 0.25 | 0.5          | 1                     | 2.5                         | 5.8                                  | GHz   |
| 0.45 | 0.56         | 0.74                  | 1.08                        | 1.65                                 | dB/ft   |
| 1.48 | 1.84         | 2.43                  | 3.54                        | 5.41                                 | dB/m  |
|      | 0.25<br>0.45 | 0.25 0.5<br>0.45 0.56 | 0.25 0.5 1   0.45 0.56 0.74 | 0.25 0.5 1 2.5   0.45 0.56 0.74 1.08 | 0.25 0.5 1 2.5 5.8   0.45 0.56 0.74 1.08 1.65 |

#### **Electrical Specification Notes:**

The Insertion Loss data above is based on the performance specifications of the coax and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1 dB per connector.

## **Mechanical Specifications**

| Cable Assembly |                     |
|----------------|---------------------|
| Length*        | 48 in [121.92 cm]   |
| Weight         | 0.161 lbs [73.03 g] |

#### Cable

Cable Type Impedance Inner Conductor Type Inner Conductor Material and Plating **Dielectric Type** Number of Shields Shield Layer 1

RG223 50 Ohms Solid Copper, Silver PE 2 Silver Plated Copper Braid

# FMCA2747-48 **DATA SHEET**



# **Configuration:**

- SMA Female
- N Female
- RG223

# **Features:**

- Max Frequency 5.8 GHz
- 66% Phase Velocity
- Double Shielded
- PVC Jacket

# **Applications:**

- General Purpose
- Laboratory Use

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| Shield Layer 2               | Silver Plated Copper Braid |
|------------------------------|----------------------------|
| Jacket Material              | PVC, Black                 |
| Jacket Diameter              | 0.21 in [5.33 mm]          |
| One Time Minimum Bend Radius | 0.21 in [5.33 mm]          |
| Repeated Minimum Bend Radius | 1 in [25.4 mm]             |

#### Connectors

| Description                | Connector 1                     | Connector 2        |
|----------------------------|---------------------------------|--------------------|
| Туре                       | SMA Female                      | N Female           |
| Specification              |                                 | MIL-STD-348A       |
| Impedance                  | 50 Ohms                         | 50 Ohms            |
| Contact Material & Plating | Beryllium Copper, Go            | old Brass, Gold    |
| Contact Plating Spec.      | 50µ in. min <mark>i</mark> mum. | 30µ in. minimum    |
| Dielectric Type            | PTFE                            | Teflon             |
| Body Material & Plating    | Brass, Nickel                   | Brass, Nickel      |
| Body Plating Spec.         | 100µ in. minimum                | . 100µ in. minimum |

## **Environmental Specifications**

Temperature **Operating Range** 

-20 to +80 deg C

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

### Plotted and Other Data

Notes:

### **How to Order**

Part Number Configuration:

FMCA2747 - xx



Example: FMCA2747-12 = 12 inches long cable FMCA2747-100cm = 100 cm long cable

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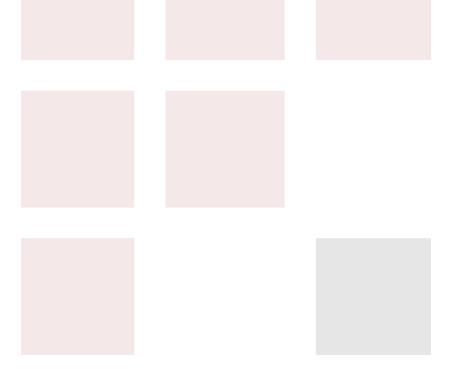


SMA Female to N Female Cable in 48 Inch Length Using RG223 Coax from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: SMA Female to N Female Cable in 48 Inch Length Using RG223 Coax FMCA2747-48

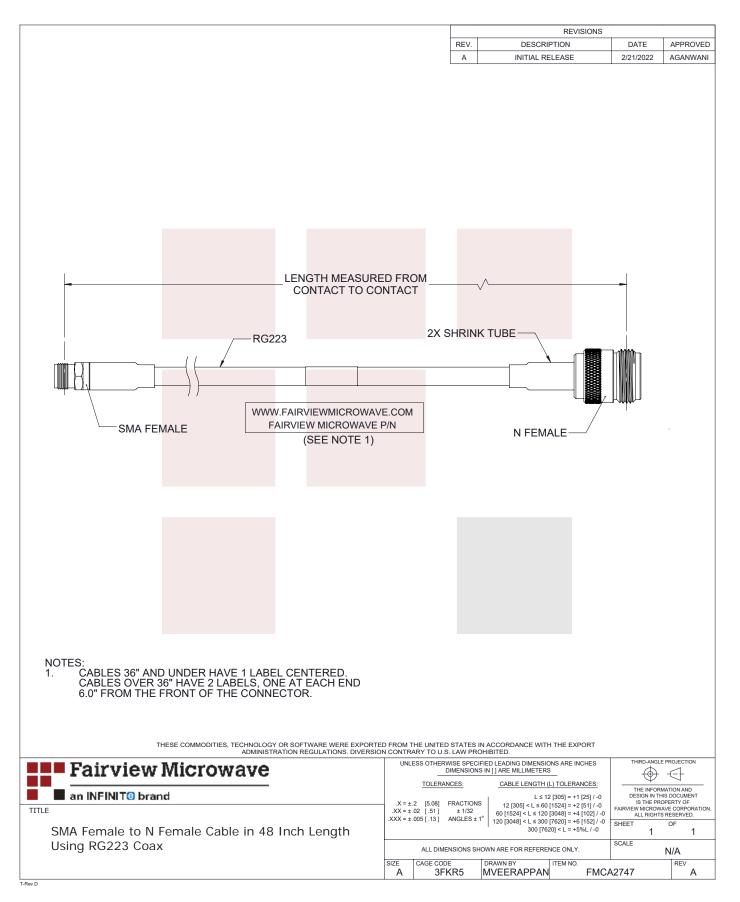
URL: https://www.fairviewmicrowave.com/sma-female-to-n-female-cable-rg223-coax-in-48-inch-and-rohs-fmca2747-48-p.aspx

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