

## SMA Male to N Male Cable RG-400 Coax

### FMC01409

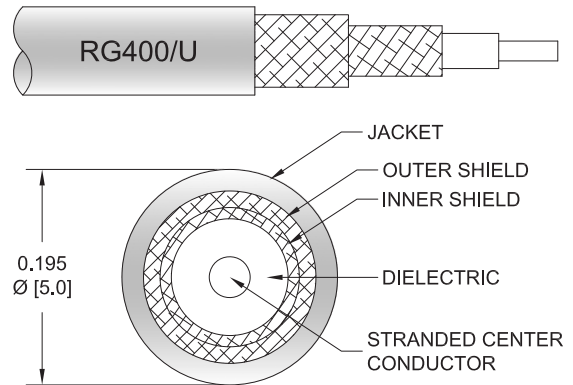


#### Configuration

- Connector 1: SMA Male
- Connector 2: N Male
- Cable Type: RG-400
- Coax Flex Type: Flexible

#### Features

- Max Frequency 11 GHz
- 70% Phase Velocity
- Double Shielded
- FEP Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

The SMA male to type N male cable using RG400 coax, part number FMC01409, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to type N cable assembly has a male to male gender configuration with 50 ohm flexible RG-400 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMC01409 SMA male to type N male cable assembly operates to 11 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	Minimum	Typical	Maximum	Units
Frequency Range	DC		11	GHz
VSWR			1.4:1	
Velocity of Propagation		70		%
Capacitance		32 [104.99]		pF/ft [pF/m]
Operating Voltage (AC)			500	Vrms

#### Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	500	1000	2500	5000	11000	MHz	
FMC01409	Custom Lengths Available	Insertion Loss (Typ.)	0.09	0.14	0.23	0.36	0.57	dB/ft	
			0.3	0.46	0.76	1.19	1.88	dB/m	
FMC01409-6	6 Inch	Insertion Loss (Typ.)	0.25	0.27	0.32	0.38	0.49	dB	0.114
FMC01409-12	12 Inch	Insertion Loss (Typ.)	0.29	0.34	0.43	0.56	0.77	dB	0.135
FMC01409-24	24 Inch	Insertion Loss (Typ.)	0.38	0.48	0.66	0.92	1.34	dB	0.177
FMC01409-36	36 Inch	Insertion Loss (Typ.)	0.47	0.62	0.89	1.28	1.91	dB	0.219
FMC01409-72	72 inch	Insertion Loss (Typ.)	0.74	1.04	1.58	2.36	3.62	dB	0.345

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: 0.1 dB  
 Loss due to Connector 2: 0.1 dB  
 Base Weight: 0.135 pounds  
 Additional Weight per Inch: 0.0035 pounds

## Mechanical Specifications

### Cable Assembly

Weight 0.135 lbs [61.23 g]

### Cable

Cable Type RG-400  
 Impedance 50 Ohms  
 Inner Conductor Type Stranded  
 Inner Conductor Material and Plating Copper, Silver  
 Dielectric Type PTFE  
 Number of Shields 2  
 Shield Layer 1 Silver Plated Copper Braid  
 Shield Layer 2 Silver Plated Copper Braid  
 Jacket Material FEP, Tan  
 Jacket Diameter 0.195 in [4.95 mm]  
 Repeated Minimum Bend Radius 1 in [25.4 mm]

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### Connectors

Description	Connector 1	Connector 2
Type	SMA Male	N Male
Specification	MIL-STD-348A	MIL-STD-348
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles		500
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	50 µin minimum	ASTM B488
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Gold	Brass, Nickel
Body Plating Specification	3 µin minimum	QQ-N-290
Coupling Nut Material and Plating	Brass, Gold	Brass, Nickel
Coupling Nut Plating Specification	3 µin minimum	QQ-N-290
Hex Size	5/16 inch	
Torque	3 in-lbs 0.34 Nm	

### Environmental Specifications

Operating Range Temperature -55 to +165 deg C

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

### Plotted and Other Data

Notes:

## SMA Male to N Male Cable RG-400 Coax

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#### Typical Performance Data

#### How to Order

Part Number Configuration:

**FMC01409**

**- xx**

**uu**

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

Example: FMC01409-12 = 12 inches long cable  
FMC01409-100cm = 100 cm long cable

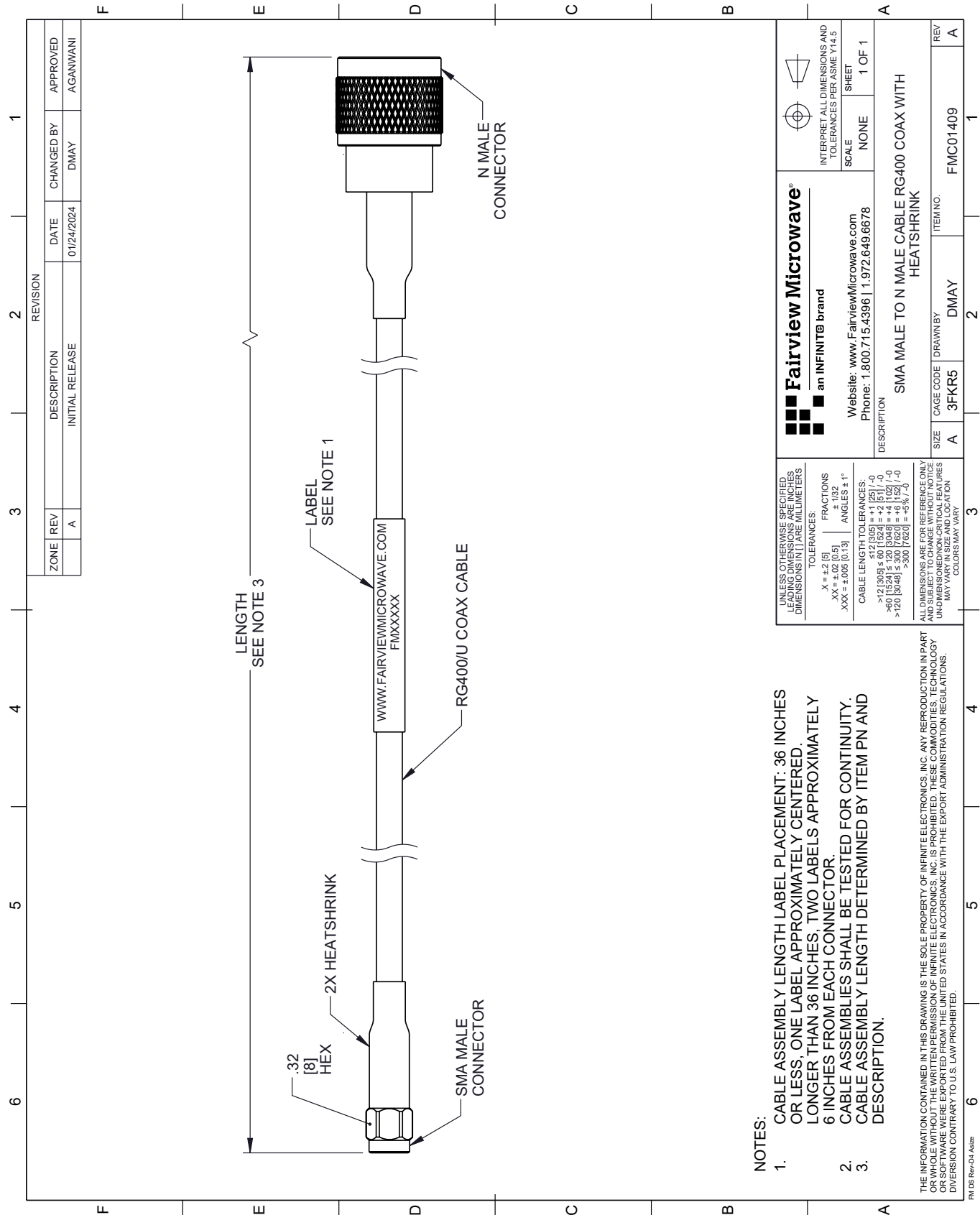
SMA Male to N Male Cable RG-400 Coax from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [SMA Male to N Male Cable RG-400 Coax FMC01409](#)

URL: <https://www.fairviewmicrowave.com/sma-male-to-n-male-cable-rg-400-coax-fmc01409-p.aspx>

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FMC01409 CAD Drawing  
SMA Male to N Male Cable RG-400 Coax



- NOTES:
- CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS; ONE LABEL APPROXIMATELY CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.
  - CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
  - CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

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