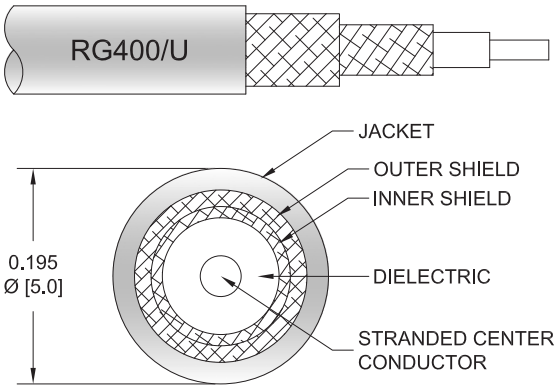
SMA Male to N Male Cable RG-400 Coax

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:

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Typical Performance Data

How to Order

Part Number Configuration: **FMC01409 - xx uu**

- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- FMC01409 — 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

FMC01409 CAD Drawing

SMA Male to N Male Cable RG-400 Coax