



FMCA10017

Configuration

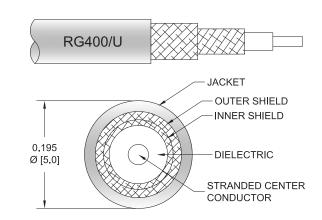
· Connector 1: SMA Male

· Connector 2: SMA Male Right Angle

Cable Type: RG-400Coax Flex Type: Flexible

Features

- · Max Frequency 12.4 GHz
- 70% Phase Velocity
- · Double Shielded
- · FEP Jacket



Applications

· General Purpose

· Laboratory Use

Description

The SMA male to RA SMA male cable using RG400 coax, part number FMCA10017, 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 flexible RG-400 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA10017 SMA male to SMA male cable assembly operates to 12.4 GHz. The right angle SMA interface on the RG-400 cable allows for easier connections in tight spaces. 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		12.4	GHz
VSWR			1.4:1	
Velocity of Propagation		70		%
Capacitance		32 [104.99]		pF/ft [pF/m]
Operating Voltage (AC)			1,900	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	weight (ibs)
FMCA10017	Custom Lengths	Insertion Loss (Typ.)	0.09	0.14	0.23	0.36	0.57	dB/ft	
TWCA10017	Available		0.3	0.46	0.76	1.19	1.88	dB/m	
FMCA10017-6	6 Inch	Insertion Loss (Typ.)	0.35	0.37	0.42	0.48	0.59	dB	0.05
FMCA10017-12	12 Inch	Insertion Loss (Typ.)	0.39	0.44	0.53	0.66	0.87	dB	0.071
FMCA10017-24	24 Inch	Insertion Loss (Typ.)	0.48	0.58	0.76	1.02	1.44	dB	0.113
FMCA10017-36	36 Inch	Insertion Loss (Typ.)	0.57	0.72	0.99	1.38	2.01	dB	0.155
FMCA10017-72	72 inch	Insertion Loss (Typ.)	0.84	1.14	1.68	2.46	3.72	dB	0.281

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: 0.2 dB Base Weight: 0.071 pounds Additional Weight per Inch: 0.0035 pounds

Mechanical Specifications

Cable Assembly

Weight 0.071 lbs [32.21 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 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
Туре	SMA Male	SMA Male Right Angle
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Right Angle
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	50 μin minimum	50 μin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Gold	Brass, Gold
Body Plating Specification	3 µin minimum	3 µin minimum
Coupling Nut Material and Plating	Brass, Gold	Brass, Gold
Coupling Nut Plating Specification	3 μin minimum	3 µin minimum
Hex Size	5/16 inch	5/16 inch
Torque	5 in-lbs 0.57 Nm	

Environmental Specifications

Operating Range Temperature

-55 to +165 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

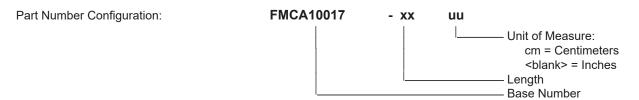




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Typical Performance Data

How to Order



Example: FMCA10017-12 = 12 inches long cable

FMCA10017-100cm = 100 cm long cable

SMA Male to RA SMA 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 ondemand.

For additional information on this product, please click the following link: SMA Male to RA SMA Male Cable RG-400 Coax FMCA10017

URL: https://www.fairviewmicrowave.com/sma-male-to-ra-sma-male-cable-rg-400-coax-fmca10017-p.aspx

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