

RA BNC Male to RA SMA Male Cable RG-400 Coax

FMCA10018

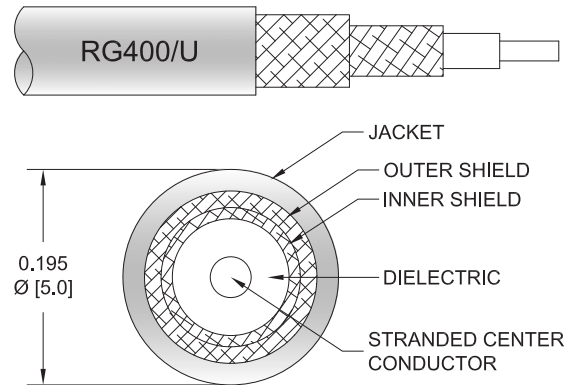


Configuration

- Connector 1: BNC Male Right Angle
- Connector 2: SMA Male Right Angle
- Cable Type: RG-400
- Coax Flex Type: Flexible

Features

- Max Frequency 4 GHz
- 70% Phase Velocity
- Double Shielded
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

The RA BNC male to RA SMA male cable using RG400 coax, part number FMCA10018, from Fairview Microwave is in-stock and ships same day. This Fairview BNC 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 FMCA10018 BNC male to SMA male cable assembly operates to 4 GHz. The right angle BNC and right angle SMA interfaces on the RG-400 cable allow 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		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	Units	Weight (lbs)
		Frequency	500	1000	4000	MHz	
FMCA10018	Custom Lengths Available	Insertion Loss (Typ.)	0.09	0.14	0.31	dB/ft	
			0.3	0.46	1.02	dB/m	
FMCA10018-6	6 Inch	Insertion Loss (Typ.)	0.45	0.47	0.56	dB	0.087
FMCA10018-12	12 Inch	Insertion Loss (Typ.)	0.49	0.54	0.71	dB	0.108
FMCA10018-24	24 Inch	Insertion Loss (Typ.)	0.58	0.68	1.02	dB	0.15
FMCA10018-36	36 Inch	Insertion Loss (Typ.)	0.67	0.82	1.33	dB	0.192
FMCA10018-72	72 inch	Insertion Loss (Typ.)	0.94	1.24	2.26	dB	0.318

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:	0.2 dB
Loss due to Connector 2:	0.2 dB
Base Weight:	0.108 pounds
Additional Weight per Inch:	0.0035 pounds

Mechanical Specifications

Cable Assembly

Weight	0.108 lbs [48.99 g]
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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	BNC Male Right Angle	SMA Male Right Angle
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Right Angle
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	30 µin minimum	50 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Gold
Body Plating Specification	100 µin minimum	3 µin minimum
Coupling Nut Material and Plating	Brass, Nickel	Brass, Gold
Coupling Nut Plating Specification	100 µin minimum	3 µin minimum
Hex Size		5/16 inch

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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FMCA10018

Typical Performance Data

How to Order

Part Number Configuration: **FMCA10018** **- xx** **uu**

Unit of Measure:
cm = Centimeters
<blank> = Inches

Length
Base Number

Example: FMCA10018-12 = 12 inches long cable
FMCA10018-100cm = 100 cm long cable

RA BNC 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 on-demand.

For additional information on this product, please click the following link: [RA BNC Male to RA SMA Male Cable RG-400 Coax FMCA10018](#)

URL: <https://www.fairviewmicrowave.com/ra-bnc-male-to-ra-sma-male-cable-rg-400-coax-fmca10018-p.aspx>

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FMCA10018 CAD Drawing
RA BNC Male to RA SMA Male Cable RG-400 Coax

