

BNC Male to BNC Female Cable RG-316 Coax



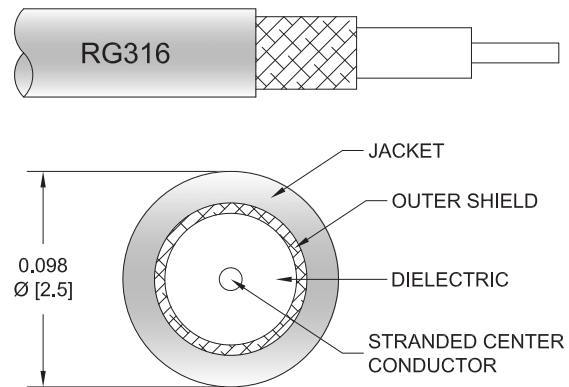
FMCA10009

Configuration

- Connector 1: BNC Male
- Connector 2: BNC Female
- Cable Type: RG-316
- Coax Cable Group: 8
- Coax Flex Type: Flexible

Features

- Max Frequency 1 GHz
- 69% Phase Velocity
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

The BNC male to BNC female cable using RG-316 coax, part number FMCA10009, from Fairview Microwave is in-stock and ships same day. This Fairview BNC to BNC cable assembly has a male to female gender configuration with 50 ohm flexible RG-316 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA10009 BNC male to BNC female cable assembly operates to 1 GHz.

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		1,000	MHz
VSWR			1.4:1	
Velocity of Propagation		69		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]
Operating Voltage (AC)			335	Vrms
Jacket Spark			2,000	Vrms

Specifications by Frequency

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FMCA10009

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency	50	100	250	500	1000	
FMCA10009	Custom Lengths Available	Insertion Loss (Typ.)	0.08	0.11	0.16	0.238	0.38	dB/ft	
			0.25	0.37	0.53	0.79	1.25	dB/m	
FMCA10009-12	12 inch	Insertion Loss (Typ.)	0.28	0.31	0.36	0.44	0.58	dB	0.052
FMCA10009-24	24 inch	Insertion Loss (Typ.)	0.35	0.42	0.52	0.68	0.96	dB	0.063
FMCA10009-36	36 inch	Insertion Loss (Typ.)	0.43	0.53	0.68	0.92	1.34	dB	0.073
FMCA10009-48	48 inch	Insertion Loss (Typ.)	0.5	0.64	0.84	1.16	1.72	dB	0.083
FMCA10009-72	72 inch	Insertion Loss (Typ.)	0.65	0.86	1.16	1.63	2.48	dB	0.103

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: 0.052 pounds
 Additional Weight per Inch: 0.00084 pounds

Mechanical Specifications

Cable Assembly

Weight 0.052 lbs [23.59 g]

Cable

Cable Type RG-316
 Impedance 50 Ohms
 Inner Conductor Type Stranded
 Inner Conductor Material and Plating Copper Clad Steel, Silver
 Dielectric Type PTFE
 Number of Shields 1
 Shield Layer 1 Silver Plated Copper Braid
 Jacket Material FEP, Tan
 Jacket Diameter 0.102 in [2.59 mm]

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FMCA10009

Connectors

Description	Connector 1	Connector 2
Type	BNC Male	BNC Female
Specification		MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	30 µin minimum	30 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100 µin minimum	100 µin minimum
Coupling Nut Material and Plating	Brass, Nickel	
Coupling Nut Plating Specification	100 µin minimum	
Hex Size	1/4 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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FMCA10009

Typical Performance Data

How to Order

Part Number Configuration:

FMCA10009

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

Example: FMCA10009-12 = 12 inches long cable
FMCA10009-100cm = 100 cm long cable

BNC Male to BNC Female Cable RG-316 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: [BNC Male to BNC Female Cable RG-316 Coax FMCA10009](#)

URL: <https://www.fairviewmicrowave.com/bnc-male-to-bnc-female-cable-rg-316-coax-fmca10009-p.aspx>

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume liability arising out of the use of any part or document.

FMCA10009 CAD Drawing

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