

N Male to N Female Bulkhead Cable RG-400 Coax



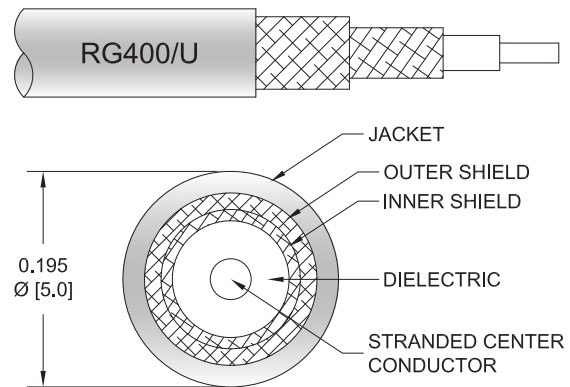
FMCA10022

Configuration

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

Features

- Max Frequency 6 GHz
- 70% Phase Velocity
- Double Shielded
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

The type N male to type N female bulkhead cable using RG400 coax, part number FMCA10022, from Fairview Microwave is in-stock and ships same day. This Fairview type N to type N cable assembly has a male to female 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 FMCA10022 type N male to type N female cable assembly operates to 6 GHz. Our RF cable assembly with type N bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications. 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		6	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	Units	Weight (lbs)
			Frequency	500	1000	2500	6000	
FMCA10022	Custom Lengths Available	Insertion Loss (Typ.)	0.09	0.14	0.23	0.39	dB/ft	
			0.3	0.46	0.76	1.28	dB/m	
FMCA10022-6	6 Inch	Insertion Loss (Typ.)	0.25	0.27	0.32	0.4	dB	0.186
FMCA10022-12	12 Inch	Insertion Loss (Typ.)	0.29	0.34	0.43	0.59	dB	0.207
FMCA10022-24	24 Inch	Insertion Loss (Typ.)	0.38	0.48	0.66	0.98	dB	0.249
FMCA10022-36	36 Inch	Insertion Loss (Typ.)	0.47	0.62	0.89	1.37	dB	0.291
FMCA10022-72	72 inch	Insertion Loss (Typ.)	0.74	1.04	1.58	2.54	dB	0.417

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: 0.207 pounds
 Additional Weight per Inch: 0.0035 pounds

Mechanical Specifications

Cable Assembly

Weight 0.207 lbs [93.89 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	N Male	N Female Bulkhead
Specification	MIL-STD-348	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	ASTM B488	30 µin minimum
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating		Brass, Nickel
Outer Conductor Plating Specification		100 µin minimum
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	QQ-N-290	100 µin minimum
Coupling Nut Material and Plating	Brass, Nickel	
Coupling Nut Plating Specification	QQ-N-290	

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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FMCA10022

Typical Performance Data

How to Order

Part Number Configuration:

FMCA10022

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Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: FMCA10022-12 = 12 inches long cable
FMCA10022-100cm = 100 cm long cable

N Male to N Female Bulkhead 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: [N Male to N Female Bulkhead Cable RG-400 Coax FMCA10022](#)

URL: <https://www.fairviewmicrowave.com/n-male-to-n-female-bulkhead-cable-rg-400-coax-fmca10022-p.aspx>

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FMCA10022 CAD Drawing

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