

Low Loss RA BNC Male to N Female Cable LMR-240-UF Coax



FMCA100222

Configuration

· Connector 1: BNC Male Right Angle

Connector 2: N FemaleCable Type: LMR-240-UFCoax Flex Type: Flexible

Features

- · Max Frequency 4 GHz
- · Shielding Effectivity > 90 dB
- · 84% Phase Velocity
- · Double Shielded
- TPE Jacket

Applications

General Purpose

· Laboratory Use

Description

The RA BNC male to type N female cable using LMR-240-UF coax, part number FMCA100222, from Fairview Microwave is in-stock and ships same day. This Fairview BNC to type N cable assembly has a male to female gender configuration with 50 ohm flexible LMR-240-UF coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA100222 BNC male to type N female cable assembly operates to 4 GHz. The right angle BNC interface on the LMR-240-UF cable allows for easier connections in tight spaces. The double shielding of this Fairview cable assembly provides excellent shielding effectiveness of better than 90 dB.

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

DC			
		4	GHz
		1.4:1	
	84		%
90			dB
	1.21 [3.97]		ns/ft [ns/m]
	24.2 [79.4]		pF/ft [pF/m]
	0.06 [0.2]		uH/ft [uH/m]
	4.28 [14.04]		Ohms/1000ft [Ohms/Km]
	3.89 [12.76]		Ohms/1000ft [Ohms/Km]
	90	90 1.21 [3.97] 24.2 [79.4] 0.06 [0.2] 4.28 [14.04]	84 90 1.21 [3.97] 24.2 [79.4] 0.06 [0.2] 4.28 [14.04]



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Jacket Spark			5,000	Vrms

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
Fait Nullibel		Frequency	100	250	500	1000	4000	MHz	weight (ms)
FMCA100222	Custom Lengths	Insertion Loss (Typ.)	0.029	0.046	0.066	0.096	0.195	dB/ft	
TWICATOUZZZ	Available	ilisertion Loss (Typ.)	0.1	0.16	0.22	0.32	0.64	dB/m	
FMCA100222-12	12 inch	Insertion Loss (Typ.)	0.33	0.35	0.37	0.4	0.5	dB	0.148
FMCA100222-24	24 inch	Insertion Loss (Typ.)	0.36	0.4	0.44	0.5	0.69	dB	0.181
FMCA100222-36	36 inch	Insertion Loss (Typ.)	0.39	0.44	0.5	0.59	0.89	dB	0.213
FMCA100222-60	60 inch	Insertion Loss (Typ.)	0.45	0.53	0.63	0.78	1.28	dB	0.277
FMCA100222-300	300 inch	Insertion Loss (Typ.)	1.03	1.45	1.95	2.7	5.18	dB	0.917

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: 0.1 dB
Base Weight: 0.148 pounds
Additional Weight per Inch: 0.00267 pounds

Mechanical Specifications

Cable Assembly

 Width/Diameter
 0.5 in [12.7 mm]

 Weight
 0.148 lbs [67.13 g]

Cable

Cable Type LMR-240-UF Impedance 50 Ohms Inner Conductor Type Stranded Inner Conductor Material and Plating Copper Dielectric Type PF (F)

Dielectric Type PE (F)
Number of Shields 2
Shield Lever 1

Shield Layer 1 Aluminum Tape
Shield Layer 2 Tinned Copper Braid
Jacket Material TPE, Black

 Jacket Diameter
 0.24 in [6.1 mm]

 One Time Minimum Bend Radius
 0.75 in [19.05 mm]

 Repeated Minimum Bend Radius
 2.5 in [63.5 mm]

 Bending Moment
 0.13 lbs-ft [0.18 N-m]

 Flat Plate Crush
 13 lbs/in [0.23 Kg/mm]

 Tensile Strength
 80 lbs [36.29 Kg]



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Connectors

Description	Connector 1	Connector 2
Туре	BNC Male Right Angle	N Female
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Straight
Mating Cycles		500
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Tri-Metal
Coupling Nut Material and Plating	Brass, Nickel	

Environmental Specifications

Operating Range Temperature

-40 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:



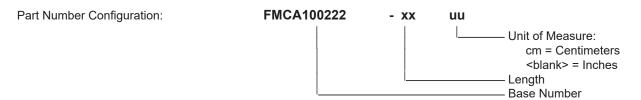
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FMCA100222

Typical Performance Data

How to Order



Example: FMCA100222-12 = 12 inches long cable

FMCA100222-100cm = 100 cm long cable

Low Loss RA BNC Male to N Female Cable LMR-240-UF 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: Low Loss RA BNC Male to N Female Cable LMR-240-UF Coax FMCA100222

URL: https://www.fairviewmicrowave.com/low-loss-ra-bnc-male-to-n-female-cable-lmr-240-uf-coax-fmca100222-p.aspx

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