

Low Loss RA N Male to BNC Male Cable LMR-400-UF Coax with LF Solder

TO COLUMN

FMCA100236

Configuration

· Connector 1: N Male Right Angle

Connector 2: BNC MaleCable Type: LMR-400-UFCoax Flex Type: Flexible

Features

- · Max Frequency 6 GHz
- · Shielding Effectivity > 90 dB
- 85% Phase Velocity
- · Double Shielded
- TPE Jacket

Applications

General Purpose

· Laboratory Use

Description

The RA type N male to BNC male cable using LMR-400-UF coax, part number FMCA100236, from Fairview Microwave is in-stock and ships same day. This Fairview type N to BNC cable assembly has a male to male gender configuration with 50 ohm flexible LMR-400-UF coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA100236 type N male to BNC male cable assembly operates to 6 GHz. The right angle type N interface on the LMR-400-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

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
VSWR			1.4:1	
Velocity of Propagation		85		%
RF Shielding	90			dB
Group Delay		1.2 [3.94]		ns/ft [ns/m]
Capacitance		23.9 [78.41]		pF/ft [pF/m]
Inductance		0.06 [0.2]		uH/ft [uH/m]
DC Resistance Inner Conductor		1.07 [3.51]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		1.65 [5.41]		Ohms/1000ft [Ohms/Km]
Dielectric Withstanding Voltage (AC)			1,500	Vrms



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Jacket Spark			8,000	Vrms

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	250	500	1000	2500	6000	MHz	
FMCA100236	Custom Lengths	Insertion Loss (Typ.)	0.023	0.035	0.05	0.081	0.112	dB/ft	
FIVICA100230	Available	insertion Loss (Typ.)	0.08	0.12	0.17	0.27	0.37	dB/m	
FMCA100236-12	12 inch	Insertion Loss (Typ.)	0.33	0.34	0.35	0.39	0.42	dB	0
FMCA100236-24	24 inch	Insertion Loss (Typ.)	0.35	0.37	0.4	0.47	0.53	dB	#REF!
FMCA100236-36	36 inch	Insertion Loss (Typ.)	0.37	0.41	0.45	0.55	0.64	dB	#REF!
FMCA100236-60	60 inch	Insertion Loss (Typ.)	0.42	0.48	0.55	0.71	0.86	dB	#REF!
FMCA100236-300	300 inch	Insertion Loss (Typ.)	0.88	1.18	1.55	2.33	3.1	dB	#REF!

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: 0.29 pounds Additional Weight per Inch: 0.00725 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter 0.5 in [12.7 mm] 0.29 lbs [131.54 g] Weight

Cable

Cable Type LMR-400-UF 50 Ohms Impedance

Inner Conductor Type Stranded Inner Conductor Material and Plating Copper Dielectric Type PE(F)

Number of Shields

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

Jacket Diameter 0.405 in [10.29 mm] One Time Minimum Bend Radius 1 in [25.4 mm] Repeated Minimum Bend Radius 4 in [101.6 mm]

Bending Moment 0.38 lbs-ft [0.52 N-m] Flat Plate Crush 20 lbs/in [0.36 Kg/mm] Tensile Strength 160 lbs [72.57 Kg]



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Connectors

Description	Connector 1	Connector 2
Туре	N Male Right Angle	BNC Male
Specification	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Straight
Mating Cycles	500	
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	30 μin minimum	50 microns
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification		80 microns
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Plating Specification		80 microns
Seal Gasket Material		Silicone

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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FMCA100236

Typical Performance Data

How to Order

Part Number Configuration:

FMCA100236
- xx uu

Unit of Measure:
cm = Centimeters

Length
Base Number

Example: FMCA100236-12 = 12 inches long cable

FMCA100236-100cm = 100 cm long cable

Low Loss RA N Male to BNC Male Cable LMR-400-UF Coax with LF Solder from Fairview Microwave is in-stock and available to ship sameday. 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 N Male to BNC Male Cable LMR-400-UF Coax with LF Solder FMCA100236

URL: https://www.fairviewmicrowave.com/low-loss-ra-n-male-to-bnc-male-cable-lmr-400-uf-coax-with-lf-solder-fm-ca100236-p.aspx

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