

## Low Loss BNC Male to BNC Male Cable LMR-240-UF Coax



### FMCA100210

#### Configuration

- Connector 1: BNC Male
- Connector 2: BNC Male
- Cable Type: LMR-240-UF
- Coax Flex Type: Flexible

#### Features

- Shielding Effectivity > 90 dB
- 84% Phase Velocity
- Double Shielded
- TPE Jacket

#### Applications

- General Purpose
- Laboratory Use

#### Description

The BNC male to BNC male cable using LMR-240-UF coax, part number FMCA100210, from Fairview Microwave is in-stock and ships same day. This Fairview BNC to BNC cable assembly has a male to male 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 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
Velocity of Propagation		84		%
RF Shielding	90			dB
Group Delay		1.21 [3.97]		ns/ft [ns/m]
Capacitance		24.2 [79.4]		pF/ft [pF/m]
Inductance		0.06 [0.2]		uH/ft [uH/m]
DC Resistance Inner Conductor		4.28 [14.04]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		3.89 [12.76]		Ohms/1000ft [Ohms/Km]
Jacket Spark			5,000	Vrms

Electrical Specification Notes:  
Values at 25°C, sea level.

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### Mechanical Specifications

#### Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.102 lbs [46.27 g]

#### Cable

Cable Type	LMR-240-UF
Impedance	50 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper
Dielectric Type	PE (F)
Number of Shields	2
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]

### Connectors

Description	Connector 1	Connector 2
Type	BNC Male	BNC Male
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	3 µin minimum	3 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	Brass, Nickel
Coupling Nut Plating Specification	100 µin minimum	100 µin minimum

### Environmental Specifications

**Compliance Certifications** (see [product page](#) for current document)

### Plotted and Other Data

Notes:  
Values at 25°C, sea level.

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### FMCA100210

#### Typical Performance Data

#### How to Order

Part Number Configuration: **FMCA100210**    **- xx**    **uu**

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

Length

Base Number

Example: FMCA100210-12 = 12 inches long cable  
FMCA100210-100cm = 100 cm long cable

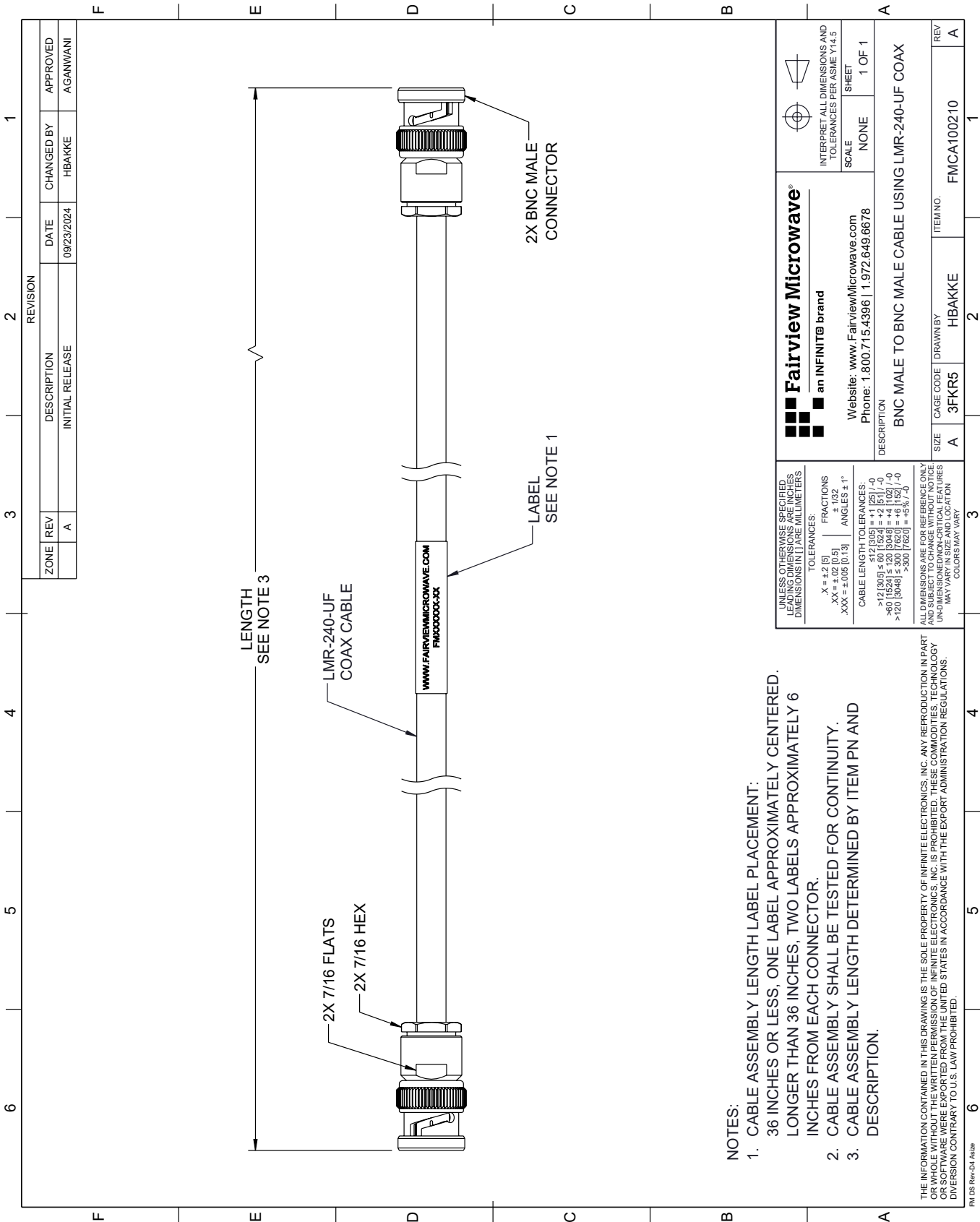
Low Loss BNC Male to BNC Male Cable LMR-240-UF Coax from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Low Loss BNC Male to BNC Male Cable LMR-240-UF Coax FMCA100210](#)

URL: <https://www.fairviewmicrowave.com/low-loss-bnc-male-to-bnc-male-cable-lmr-240-uf-coax-fmca100210-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.

FMCA100210 CAD Drawing
Low Loss BNC Male to BNC Male Cable LMR-240-UF Coax



- NOTES:
1. CABLE ASSEMBLY LENGTH LABEL PLACEMENT:  
36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED.  
LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6  
INCHES FROM EACH CONNECTOR.
  2. CABLE ASSEMBLY SHALL BE TESTED FOR CONTINUITY.
  3. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND  
DESCRIPTION.

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UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES  
UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN MILLIMETERS

Fairview Microwave® an INFINITI® brand		Website: www.FairviewMicrowave.com Phone: 1.800.715.4396   1.972.649.6678	
TOLERANCES: X = ±.2 (5) .XX = ±.02 (0.5) .XXX = ±.005 (0.13)		FRACTIONS ± 1/32 ANGLES ± 1°	
CABLE LENGTH TOLERANCES: >12 [3048] ≤ 60 [1524] = ±.125 (-0 >60 [1524] ≤ 120 [3048] = ±.125 (-0 >120 [3048] ≤ 300 [7620] = ±.125 (-0 >300 [7620] = ±.125 (-0		CABLE LENGTH TOLERANCES: >12 [3048] ≤ 60 [1524] = ±.125 (-0 >60 [1524] ≤ 120 [3048] = ±.125 (-0 >120 [3048] ≤ 300 [7620] = ±.125 (-0 >300 [7620] = ±.125 (-0	

DESCRIPTION BNC MALE TO BNC MALE CABLE USING LMR-240-UF COAX		SCALE NONE	
SHEET 1 OF 1		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	
SIZE A	CAGE CODE 3FKR5	DRAWN BY HBAKKE	ITEM NO. FMCA100210
REV A			