

## Plenum Low Loss BNC Male to N Male Cable LMR-400-LLPX Coax with Times Microwave Components

**FMCA100047**

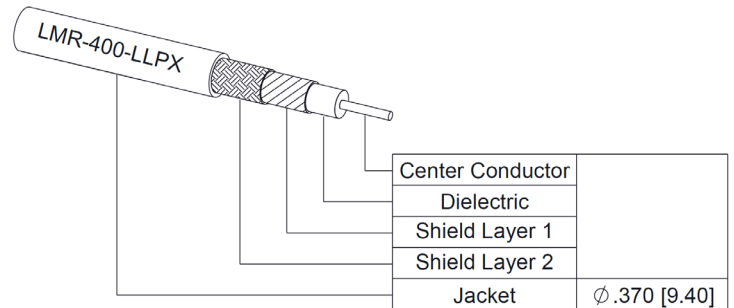


### Configuration

- Connector 1: BNC Male
- Connector 2: N Male
- Cable Type: LMR-400-LLPX
- Coax Flex Type: Flexible

### Features

- Max Frequency 4 GHz
- Shielding Effectivity > 90 dB
- 76% Phase Velocity
- Double Shielded
- Fluoropolymer Jacket



### Applications

- General Purpose
- Laboratory Use

### Description

The BNC male to type N male cable using LMR-400-LLPX coax, part number FMCA100047, from Fairview Microwave is in-stock and ships same day. This Fairview BNC to type N cable assembly has a male to male gender configuration with 50 ohm flexible LMR-400-LLPX coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA100047 BNC male to type N male cable assembly operates to 4 GHz. 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		4	GHz
VSWR			1.4:1	
Velocity of Propagation		76		%
RF Shielding	90			dB
Capacitance		26.7 [87.6]		pF/ft [pF/m]

### Specifications by Frequency

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### FMCA100047

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	100	250	500	1000	4000	MHz	
FMCA100047	Custom Lengths Available	Insertion Loss (Typ.)	0.012	0.02	0.029	0.042	0.085	dB/ft	
			0.04	0.07	0.1	0.14	0.28	dB/m	
FMCA100047-12	12 Inch	Insertion Loss (Typ.)	0.22	0.22	0.23	0.25	0.29	dB	0.282
FMCA100047-24	24 Inch	Insertion Loss (Typ.)	0.23	0.24	0.26	0.29	0.37	dB	0.387
FMCA100047-36	36 Inch	Insertion Loss (Typ.)	0.24	0.26	0.29	0.33	0.46	dB	0.491
FMCA100047-48	48 Inch	Insertion Loss (Typ.)	0.25	0.28	0.32	0.37	0.54	dB	0.595
FMCA100047-60	60 Inch	Insertion Loss (Typ.)	0.26	0.3	0.35	0.41	0.63	dB	0.699

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:	0.282 pounds
Additional Weight per Inch:	0.7908 pounds

### Mechanical Specifications

#### Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.282 lbs [127.91 g]

#### Cable

Cable Type	LMR-400-LLPX
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Aluminum
Dielectric Type	PTFE (LD)
Number of Shields	2
Shield Layer 1	Aluminum Tape
Shield Layer 2	Tinned Copper Braid
Jacket Material	Fluoropolymer, Red
Jacket Diameter	0.37 in [9.4 mm]
Repeated Minimum Bend Radius	4 in [101.6 mm]

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### Connectors

Description	Connector 1	Connector 2
Type	BNC Male	N Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Copper, Gold	Beryllium Bronze, Gold
Contact Plating Specification		50μ in. minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification		100μ in. minimum
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Plating Specification		100μ in. minimum
Hex Size		20.57 mm
Torque		18.417 ft-lbs 24.97 Nm

### Environmental Specifications

Operating Range Temperature -40 to +125 deg C

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

### Plotted and Other Data

Notes:

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### FMCA100047

#### Typical Performance Data

#### How to Order

Part Number Configuration: **FMCA100047**    **- xx**    **uu**

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

Length  
Base Number

Example: FMCA100047-12 = 12 inches long cable  
FMCA100047-100cm = 100 cm long cable

Plenum Low Loss BNC Male to N Male Cable LMR-400-LLPX Coax with Times Microwave Components 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: [Plenum Low Loss BNC Male to N Male Cable LMR-400-LLPX Coax with Times Microwave Components FMCA100047](#)

URL: <https://www.fairviewmicrowave.com/plenum-low-loss-bnc-male-to-n-male-cable-lmr-400-llpx-coax-with-times-microwave-components-fmca100047-p.aspx>

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