

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



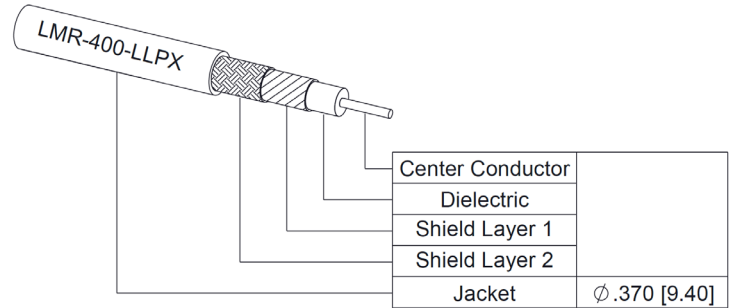
FMCA100050

Configuration

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

Features

- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 76% Phase Velocity
- Double Shielded
- Fluoropolymer Jacket



Applications

- General Purpose
- Laboratory Use

Description

The type N male to type N male cable using LMR-400-LLPX coax, part number FMCA100050, from Fairview Microwave is in-stock and ships same day. This Fairview type N 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 FMCA100050 type N male to type N male cable assembly operates to 5.8 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		5.8	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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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency	250	500	1000	2500	5800	
FMCA100050	Custom Lengths Available	Insertion Loss (Typ.)	0.02	0.029	0.042	0.068	0.107	dB/ft	
			0.07	0.1	0.14	0.23	0.36	dB/m	
FMCA100050-12	12 Inch	Insertion Loss (Typ.)	0.22	0.23	0.25	0.27	0.31	dB	0.296
FMCA100050-24	24 Inch	Insertion Loss (Typ.)	0.24	0.26	0.29	0.34	0.42	dB	0.401
FMCA100050-36	36 Inch	Insertion Loss (Typ.)	0.26	0.29	0.33	0.41	0.53	dB	0.505
FMCA100050-48	48 Inch	Insertion Loss (Typ.)	0.28	0.32	0.37	0.48	0.63	dB	0.609
FMCA100050-60	60 Inch	Insertion Loss (Typ.)	0.3	0.35	0.41	0.54	0.74	dB	0.713

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: 0.296 pounds
 Additional Weight per Inch: 0.7908 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter: 0.5 in [12.7 mm]
 Weight: 0.296 lbs [134.26 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	N Male	N Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Beryllium Bronze, Gold	Beryllium Bronze, Gold
Contact Plating Specification	50 µin minimum	50 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification	100 µin minimum	100 µin minimum
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Plating Specification	100 µin minimum	100 µin minimum
Hex Size	20.57 mm	20.57 mm
Torque	18.417 ft-lbs 24.97 Nm	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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FMCA100050

Typical Performance Data

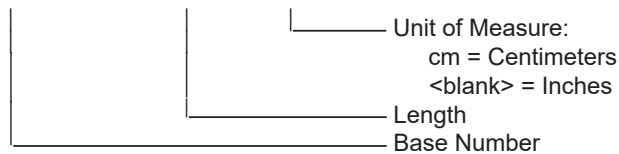
How to Order

Part Number Configuration:

FMCA100050

- xx

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Example: FMCA100050-12 = 12 inches long cable
FMCA100050-100cm = 100 cm long cable

Plenum Low Loss N 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.

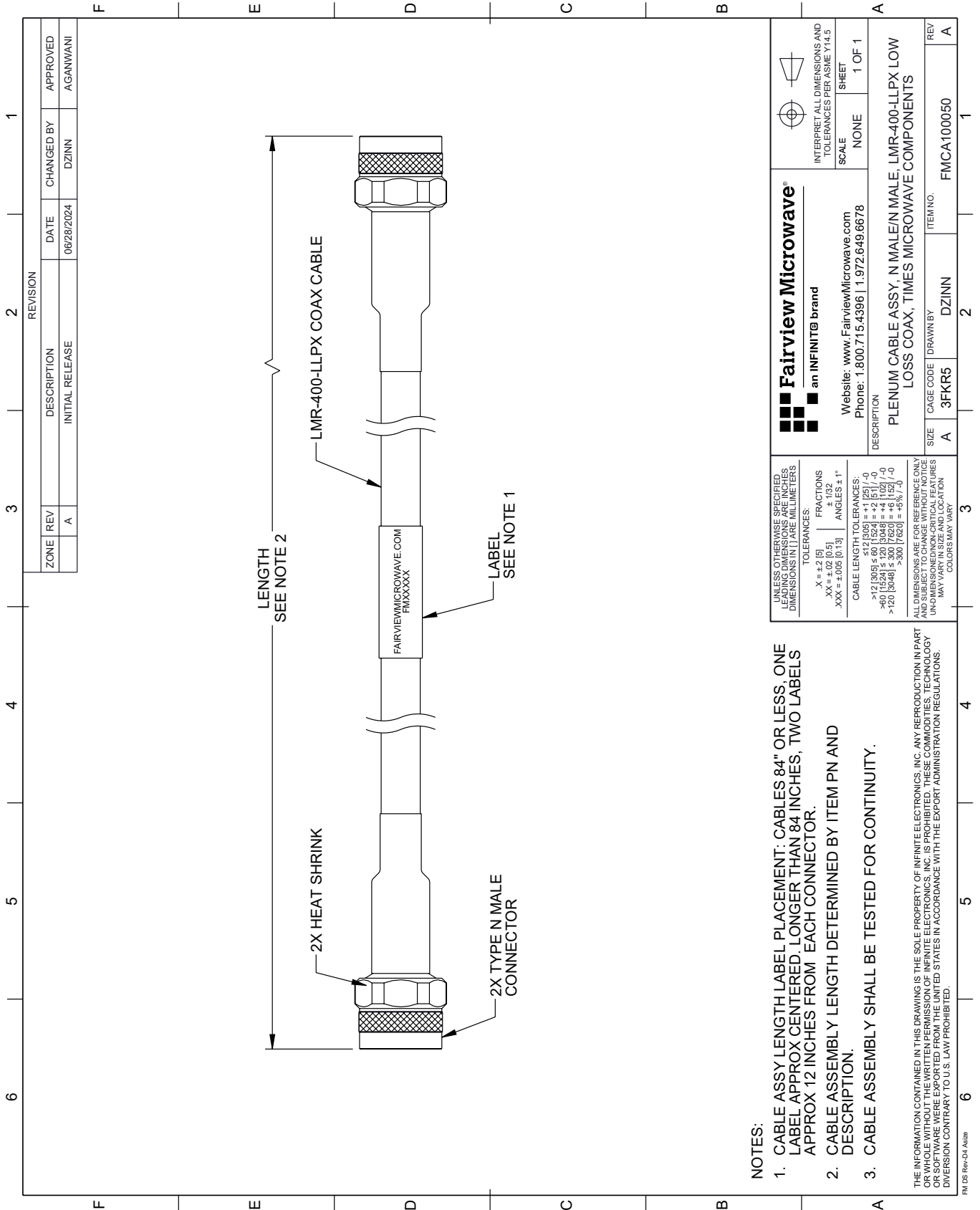
For additional information on this product, please click the following link: [Plenum Low Loss N Male to N Male Cable LMR-400-LLPX Coax with Times Microwave Components FMCA100050](#)

URL: <https://www.fairviewmicrowave.com/plenum-low-loss-n-male-to-n-male-cable-lmr-400-llpx-coax-with-times-microwave-components-fmca100050-p.aspx>

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FMCA100050 CAD Drawing

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NOTES:

1. CABLE ASSY LENGTH LABEL PLACEMENT: CABLES 84" OR LESS, ONE LABEL APPROX CENTERED, LONGER THAN 84 INCHES, TWO LABELS APPROX 12 INCHES FROM EACH CONNECTOR.
2. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.
3. CABLE ASSEMBLY SHALL BE TESTED FOR CONTINUITY.

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FM DS Rev-D4 A426

REVISION		DATE	CHANGED BY	APPROVED	
ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	06/28/2024	DZINN	AGANWANI

<p>Fairview Microwave® an INFINITO brand</p> <p>Website: www.FairviewMicrowave.com Phone: 1.800.715.4396 1.972.649.6678</p>		<p>INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5</p> <p>SCALE: NONE</p> <p>SHEET: 1 OF 1</p>
<p>UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES, DIMENSIONS IN [] ARE MILLIMETERS.</p> <p>TOLERANCES: .X = ±.2 [5] .XX = ±.02 [0.5] .XXX = ±.005 [0.13] FRACTIONS ± 1/32 ANGLES ± 1°</p> <p>CABLE LENGTH TOLERANCES: <12 [305] ≤ 60 [1524] = ±.1 [25] / -0 >60 [1524] ≤ 120 [3048] = ±.1 [25] / -0 >120 [3048] ≤ 300 [7620] = ±.1 [25] / -0 >300 [7620] = ±.1 [25] / -0</p> <p>ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE NON-CRITICAL FEATURES. MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.</p>		
<p>DESCRIPTION</p> <p>PLENUM CABLE ASSY, N MALE/N MALE, LMR-400-LLPX LOW LOSS COAX, TIMES MICROWAVE COMPONENTS</p>		<p>REV: A</p>
<p>SIZE: A</p>	<p>CAGE CODE: 3FKR5</p>	<p>ITEM NO: FMCA100050</p>
<p>DRAWN BY: DZINN</p>	<p>1</p>	<p>2</p>