

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



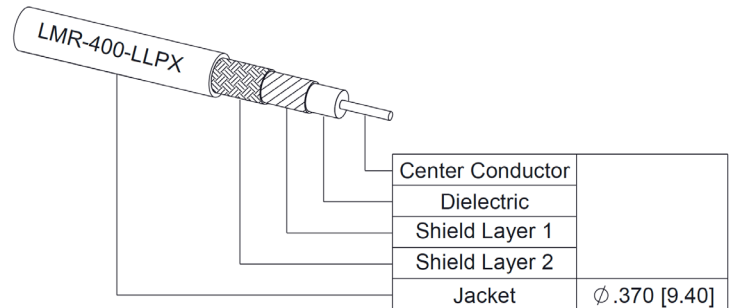
FMCA100051

Configuration

- Connector 1: N Male
- Connector 2: SMA 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 SMA male cable using LMR-400-LLPX coax, part number FMCA100051, from Fairview Microwave is in-stock and ships same day. This Fairview type N to SMA 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 FMCA100051 type N male to SMA 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	
FMCA100051	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	
FMCA100051-12	12 Inch	Insertion Loss (Typ.)	0.22	0.23	0.25	0.27	0.31	dB	0.251
FMCA100051-24	24 Inch	Insertion Loss (Typ.)	0.24	0.26	0.29	0.34	0.42	dB	0.356
FMCA100051-36	36 Inch	Insertion Loss (Typ.)	0.26	0.29	0.33	0.41	0.53	dB	0.46
FMCA100051-48	48 Inch	Insertion Loss (Typ.)	0.28	0.32	0.37	0.48	0.63	dB	0.564
FMCA100051-60	60 Inch	Insertion Loss (Typ.)	0.3	0.35	0.41	0.54	0.74	dB	0.668

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: 0.251 pounds
 Additional Weight per Inch: 0.7908 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter 0.5 in [12.7 mm]
 Weight 0.251 lbs [113.85 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	SMA Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles		500
Contact Material and Plating	Beryllium Bronze, Gold	Brass, Gold
Contact Plating Specification	50 µin minimum	50 µin minimum
Dielectric Type	PTFE	Teflon
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification	100 µin minimum	
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Plating Specification	100 µin minimum	
Hex Size	20.57 mm	
Torque	18.417 ft-lbs 24.97 Nm	7 in-lbs 0.79 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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FMCA100051

Typical Performance Data

How to Order

Part Number Configuration:

FMCA100051

- xx

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Unit of Measure:
cm = Centimeters
<blank> = Inches
Length
Base Number

Example: FMCA100051-12 = 12 inches long cable
FMCA100051-100cm = 100 cm long cable

Plenum Low Loss N Male to SMA 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 SMA Male Cable LMR-400-LLPX Coax with Times Microwave Components FMCA100051](#)

URL: <https://www.fairviewmicrowave.com/plenum-low-loss-n-male-to-sma-male-cable-lmr-400-llpx-coax-with-times-microwave-components-fmca100051-p.aspx>

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