

Plenum Low Loss N Male to SMA Male Cable LMR-400-LLPX Coax in 48 Inch with Times Microwave Components



FMCA100051-48

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 48 inch cable using LMR-400-LLPX coax, part number FMCA100051-48, 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 FMCA100051-48 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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Mechanical Specifications

Cable Assembly

Length	48 in [121.92 cm]
Width/Diameter	0.5 in [12.7 mm]
Weight	0.564 lbs [255.83 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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FMCA100051-48

Typical Performance Data

How to Order

Part Number Configuration: **FMCA100051** **- xx** **uu**

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 in 48 Inch 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 in 48 Inch with Times Microwave Components FMCA100051-48](#)

URL: <https://www.fairviewmicrowave.com/plenum-low-loss-n-male-to-sma-male-cable-lmr-400-llpx-coax-in-48-inch-with-times-microwave-components-fmca100051-48-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.

FMCA100051-48 CAD Drawing

Plenum Low Loss N Male to SMA Male Cable LMR-400-LLPX Coax in 48 Inch with Times Microwave Components