

Plenum Low Loss N Male to N Male Cable LMR-600-LLPX Coax with Times Microwave Components



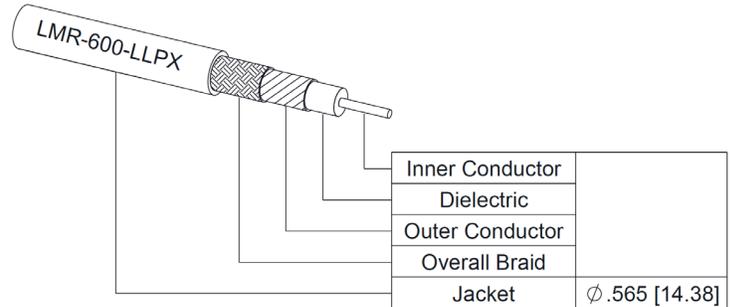
FMCA100053

Configuration

- Connector 1: N Male
- Connector 2: N Male
- Cable Type: LMR-600-LLPX

Features

- Max Frequency 6 GHz
- Shielding Effectivity > 90 dB
- 76% Phase Velocity
- Fluoropolymer Jacket



Applications

- General Purpose
- Laboratory Use

Description

The type N male to type N male cable using LMR-600-LLPX coax, part number FMCA100053, 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 LMR-600-LLPX coax. The FMCA100053 type N male to type N male cable assembly operates to 6 GHz.

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		6	GHz
VSWR			1.4:1	
Velocity of Propagation		76		%
RF Shielding	90			dB
DC Resistance Inner Conductor		0.73 [2.4]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		1.2 [3.94]		Ohms/1000ft [Ohms/Km]
Operating Voltage (DC)			4,000	Vdc
Jacket Spark			8,000	Vrms

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency	250	500	1000	2500	6000	
FMCA100053	Custom Lengths Available	Insertion Loss (Typ.)	0.012	0.018	0.027	0.044	0.072	dB/ft	
			0.04	0.06	0.09	0.15	0.24	dB/m	
FMCA100053-12	12 Inch	Insertion Loss (Typ.)	0.22	0.22	0.23	0.25	0.28	dB	0.289
FMCA100053-24	24 Inch	Insertion Loss (Typ.)	0.23	0.24	0.26	0.29	0.35	dB	0.325
FMCA100053-36	36 Inch	Insertion Loss (Typ.)	0.24	0.26	0.29	0.34	0.42	dB	0.36
FMCA100053-48	48 Inch	Insertion Loss (Typ.)	0.25	0.28	0.31	0.38	0.49	dB	0.395
FMCA100053-60	60 Inch	Insertion Loss (Typ.)	0.26	0.29	0.34	0.42	0.56	dB	0.43

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: 0.289 pounds
 Additional Weight per Inch: 1.5192 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter 0.5 in [12.7 mm]
 Weight 0.289 lbs [131.09 g]

Cable

Cable Type LMR-600-LLPX
 Impedance 50 Ohms
 Inner Conductor Type Stranded
 Inner Conductor Material and Plating Copper Clad Aluminum
 Dielectric Type PTFE
 Outer Conductor 1 Material and Plating Aluminum Tape
 Outer Conductor Diameter 0.461 in [11.71 mm]
 Jacket Material Fluoropolymer
 Jacket Diameter 0.565 in [14.35 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	Brass, Gold	Brass, 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	44 in-lbs 4.97 Nm	44 in-lbs 4.97 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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Typical Performance Data

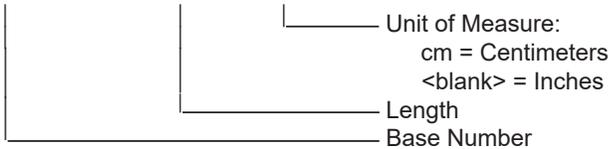
How to Order

Part Number Configuration:

FMCA100053

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Example: FMCA100053-12 = 12 inches long cable
FMCA100053-100cm = 100 cm long cable

Plenum Low Loss N Male to N Male Cable LMR-600-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-600-LLPX Coax with Times Microwave Components FMCA100053](#)

URL: <https://www.fairviewmicrowave.com/plenum-low-loss-n-male-to-n-male-cable-lmr-600-llpx-coax-with-times-microwave-components-fmca100053-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.

FMCA100053 CAD Drawing

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