

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



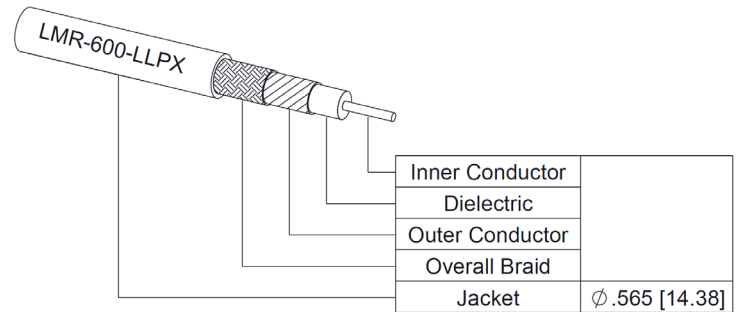
### FMCA100055

#### Configuration

- Connector 1: N Male
- Connector 2: TNC 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 TNC male cable using LMR-600-LLPX coax, part number FMCA100055, from Fairview Microwave is in-stock and ships same day. This Fairview type N to TNC cable assembly has a male to male gender configuration with 50 ohm LMR-600-LLPX coax. The FMCA100055 type N male to TNC 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	
FMCA100055	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	
FMCA100055-12	12 Inch	Insertion Loss (Typ.)	0.22	0.22	0.23	0.25	0.28	dB	0.282
FMCA100055-24	24 Inch	Insertion Loss (Typ.)	0.23	0.24	0.26	0.29	0.35	dB	0.318
FMCA100055-36	36 Inch	Insertion Loss (Typ.)	0.24	0.26	0.29	0.34	0.42	dB	0.353
FMCA100055-48	48 Inch	Insertion Loss (Typ.)	0.25	0.28	0.31	0.38	0.49	dB	0.388
FMCA100055-60	60 Inch	Insertion Loss (Typ.)	0.26	0.29	0.34	0.42	0.56	dB	0.423

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: 1.5192 pounds

**Mechanical Specifications**

**Cable Assembly**

Width/Diameter 0.5 in [12.7 mm]  
 Weight 0.282 lbs [127.91 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	TNC Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles		500
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Contact Plating Specification	50 µin minimum	
Dielectric Type	PTFE	PTFE
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	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**

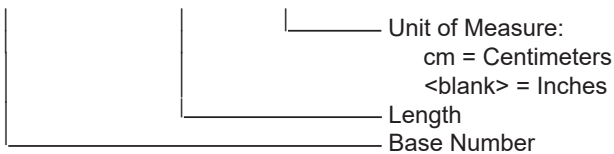
**How to Order**

Part Number Configuration:

**FMCA100055**

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Example: FMCA100055-12 = 12 inches long cable  
FMCA100055-100cm = 100 cm long cable

Plenum Low Loss N Male to TNC 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 TNC Male Cable LMR-600-LLPX Coax with Times Microwave Components FMCA100055](#)

URL: <https://www.fairviewmicrowave.com/plenum-low-loss-n-male-to-tnc-male-cable-lmr-600-llpx-coax-with-times-microwave-components-fmca100055-p.aspx>

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# FMCA100055 CAD Drawing

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