

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

**FMCA100052**

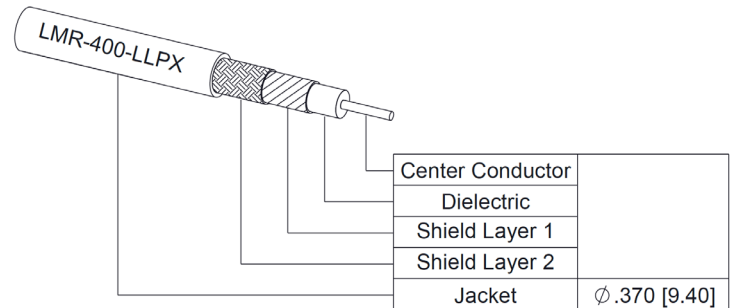


### Configuration

- Connector 1: N Male
- Connector 2: TNC 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 TNC male cable using LMR-400-LLPX coax, part number FMCA100052, 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 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 FMCA100052 type N male to TNC 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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### FMCA100052

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	250	500	1000	2500	5800	MHz	
FMCA100052	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	
FMCA100052-12	12 Inch	Insertion Loss (Typ.)	0.22	0.23	0.25	0.27	0.31	dB	0.291
FMCA100052-24	24 Inch	Insertion Loss (Typ.)	0.24	0.26	0.29	0.34	0.42	dB	0.396
FMCA100052-36	36 Inch	Insertion Loss (Typ.)	0.26	0.29	0.33	0.41	0.53	dB	0.5
FMCA100052-48	48 Inch	Insertion Loss (Typ.)	0.28	0.32	0.37	0.48	0.63	dB	0.604
FMCA100052-60	60 Inch	Insertion Loss (Typ.)	0.3	0.35	0.41	0.54	0.74	dB	0.708

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: 0.291 pounds  
 Additional Weight per Inch: 0.7908 pounds

## Mechanical Specifications

### Cable Assembly

Width/Diameter 0.5 in [12.7 mm]  
 Weight 0.291 lbs [132 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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**FMCA100052**

### 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	Beryllium Bronze, Gold	Brass, Gold
Contact Plating Specification	50 µin minimum	50 µin minimum
Dielectric Type	PTFE	
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification	100 µin minimum	80 µin minimum
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Plating Specification	100 µin minimum	80 µin minimum
Hex Size	20.57 mm	
Torque	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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### FMCA100052

#### Typical Performance Data

#### How to Order

Part Number Configuration: **FMCA100052**    **- xx**    **uu**

Unit of Measure:  
cm = Centimeters  
<blank> = Inches

Length

Base Number

Example: FMCA100052-12 = 12 inches long cable  
FMCA100052-100cm = 100 cm long cable

Plenum Low Loss N Male to TNC 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 TNC Male Cable LMR-400-LLPX Coax with Times Microwave Components FMCA100052](#)

URL: <https://www.fairviewmicrowave.com/plenum-low-loss-n-male-to-tnc-male-cable-lmr-400-llpx-coax-with-times-microwave-components-fmca100052-p.aspx>

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