

## Plenum Low Loss TNC Male to TNC Male Cable LMR-240-LLPX Coax with Times Microwave Components

**FMCA100046**

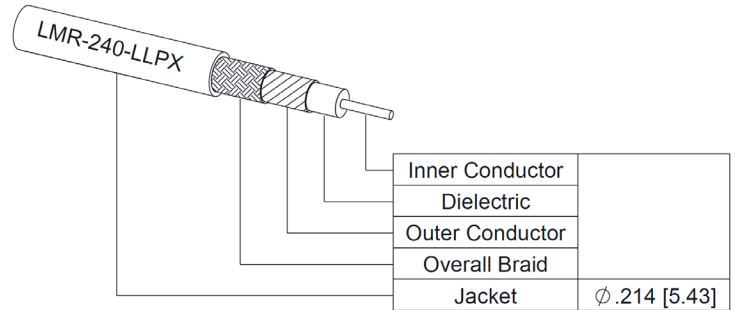


### Configuration

- Connector 1: TNC Male
- Connector 2: TNC Male
- Cable Type: LMR-240-LLPX

### Features

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



### Applications

- General Purpose
- Laboratory Use

### Description

The TNC male to TNC male cable using LMR-240-LLPX coax, part number FMCA100046, from Fairview Microwave is in-stock and ships same day. This Fairview TNC to TNC cable assembly has a male to male gender configuration with 50 ohm LMR-240-LLPX coax. The FMCA100046 TNC 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
Capacitance		26.7 [87.6]		pF/ft [pF/m]
Inductance		0.067 [0.22]		uH/ft [uH/m]
DC Resistance Inner Conductor		4 [13.12]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		3.9 [12.8]		Ohms/1000ft [Ohms/Km]
Jacket Spark			5,000	Vrms

### Specifications by Frequency

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### FMCA100046

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	250	500	1000	2500	6000	MHz	
FMCA100046	Custom Lengths Available	Insertion Loss (Typ.)	0.038	0.056	0.079	0.129	0.203	dB/ft	
			0.13	0.19	0.26	0.43	0.67	dB/m	
FMCA100046-12	12 Inch	Insertion Loss (Typ.)	0.24	0.26	0.28	0.33	0.41	dB	0.135
FMCA100046-24	24 Inch	Insertion Loss (Typ.)	0.28	0.32	0.36	0.46	0.61	dB	0.171
FMCA100046-36	36 Inch	Insertion Loss (Typ.)	0.32	0.37	0.44	0.59	0.81	dB	0.206
FMCA100046-48	48 Inch	Insertion Loss (Typ.)	0.36	0.43	0.52	0.72	1.02	dB	0.241
FMCA100046-60	60 Inch	Insertion Loss (Typ.)	0.39	0.48	0.6	0.85	1.22	dB	0.276

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:	0.135 pounds
Additional Weight per Inch:	0.4983 pounds

## Mechanical Specifications

### Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.135 lbs [61.23 g]

### Cable

Cable Type	LMR-240-LLPX
Impedance	50 Ohms
Inner Conductor Material and Plating	Copper
Dielectric Type	PTFE
Outer Conductor 1 Material and Plating	Aluminum Tape
Jacket Material	Fluoropolymer
Jacket Diameter	0.214 in [5.44 mm]
One Time Minimum Bend Radius	0.75 in [19.05 mm]
Repeated Minimum Bend Radius	2.5 in [63.5 mm]
Flat Plate Crush	85 lbs/in [1.52 Kg/mm]
Tensile Strength	60 lbs [27.22 Kg]

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### Connectors

Description	Connector 1	Connector 2
Type	TNC Male	TNC Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles	500	500
Contact Material and Plating	Phosphor Bronze, Gold	Phosphor Bronze, Gold
Contact Plating Specification	50μ in. minimum	50μ in. minimum
Dielectric Type	Teflon	Teflon
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification	80μ in. minimum	80μ in. minimum
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Plating Specification	80μ in. minimum	80μ in. minimum
Torque	20 in-lbs 2.26 Nm	20 in-lbs 2.26 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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### FMCA100046

#### Typical Performance Data

#### How to Order

Part Number Configuration: **FMCA100046**    **- xx**    **uu**

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

Length

Base Number

Example: FMCA100046-12 = 12 inches long cable  
FMCA100046-100cm = 100 cm long cable

Plenum Low Loss TNC Male to TNC Male Cable LMR-240-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 TNC Male to TNC Male Cable LMR-240-LLPX Coax with Times Microwave Components FMCA100046](#)

URL: <https://www.fairviewmicrowave.com/plenum-low-loss-tnc-male-to-tnc-male-cable-lmr-240-llpx-coax-with-times-microwave-components-fmca100046-p.aspx>

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