

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



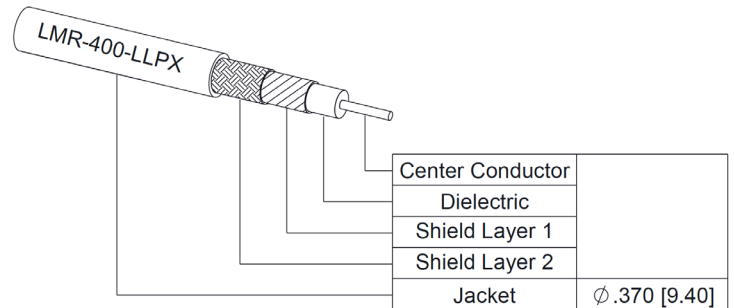
FMCA100049

Configuration

- Connector 1: BNC Male
- Connector 2: TNC Male
- Cable Type: LMR-400-LLPX
- Coax Flex Type: Flexible

Features

- Max Frequency 4 GHz
- Shielding Effectivity > 90 dB
- 76% Phase Velocity
- Double Shielded
- Fluoropolymer Jacket



Applications

- General Purpose
- Laboratory Use

Description

The BNC male to TNC male cable using LMR-400-LLPX coax, part number FMCA100049, from Fairview Microwave is in-stock and ships same day. This Fairview BNC 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 FMCA100049 BNC male to TNC male cable assembly operates to 4 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		4	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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FMCA100049

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	100	250	500	1000	4000	MHz	
FMCA100049	Custom Lengths Available	Insertion Loss (Typ.)	0.012	0.02	0.029	0.042	0.085	dB/ft	
			0.04	0.07	0.1	0.14	0.28	dB/m	
FMCA100049-12	12 Inch	Insertion Loss (Typ.)	0.22	0.22	0.23	0.25	0.29	dB	0.277
FMCA100049-24	24 Inch	Insertion Loss (Typ.)	0.23	0.24	0.26	0.29	0.37	dB	0.382
FMCA100049-36	36 Inch	Insertion Loss (Typ.)	0.24	0.26	0.29	0.33	0.46	dB	0.486
FMCA100049-48	48 Inch	Insertion Loss (Typ.)	0.25	0.28	0.32	0.37	0.54	dB	0.59
FMCA100049-60	60 Inch	Insertion Loss (Typ.)	0.26	0.3	0.35	0.41	0.63	dB	0.694

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: 0.277 pounds
 Additional Weight per Inch: 0.7908 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter 0.5 in [12.7 mm]
 Weight 0.277 lbs [125.65 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	BNC Male	TNC Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles		500
Contact Material and Plating	Copper, Gold	Brass, Gold
Contact Plating Specification		50 µin minimum
Dielectric Type	PTFE	
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification		80 µin minimum
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Plating Specification		80 µin minimum

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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FMCA100049

Typical Performance Data

How to Order

Part Number Configuration: **FMCA100049** **- xx** **uu**

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

Length

Base Number

Example: FMCA100049-12 = 12 inches long cable
FMCA100049-100cm = 100 cm long cable

Plenum Low Loss BNC 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 BNC Male to TNC Male Cable LMR-400-LLPX Coax with Times Microwave Components FMCA100049](#)

URL: <https://www.fairviewmicrowave.com/plenum-low-loss-bnc-male-to-tnc-male-cable-lmr-400-llpx-coax-with-times-microwave-components-fmca100049-p.aspx>

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