

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



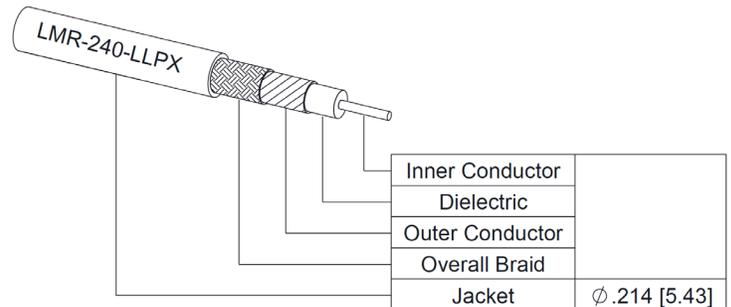
FMCA100045

Configuration

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

Features

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



Applications

- General Purpose
- Laboratory Use

Description

The SMA male to TNC male cable using LMR-240-LLPX coax, part number FMCA100045, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to TNC cable assembly has a male to male gender configuration with 50 ohm LMR-240-LLPX coax. The FMCA100045 SMA 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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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency	250	500	1000	2500	6000	
FMCA100045	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	
FMCA100045-12	12 Inch	Insertion Loss (Typ.)	0.24	0.26	0.28	0.33	0.41	dB	0.105
FMCA100045-24	24 Inch	Insertion Loss (Typ.)	0.28	0.32	0.36	0.46	0.61	dB	0.141
FMCA100045-36	36 Inch	Insertion Loss (Typ.)	0.32	0.37	0.44	0.59	0.81	dB	0.176
FMCA100045-48	48 Inch	Insertion Loss (Typ.)	0.36	0.43	0.52	0.72	1.02	dB	0.211
FMCA100045-60	60 Inch	Insertion Loss (Typ.)	0.39	0.48	0.6	0.85	1.22	dB	0.246

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: 0.105 pounds
 Additional Weight per Inch: 0.4983 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter 0.5 in [12.7 mm]
 Weight 0.105 lbs [47.63 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	SMA Male	TNC Male
Specification	MIL-STD-348	
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles		500
Contact Material and Plating	Beryllium Copper, Gold	Phosphor Bronze, Gold
Contact Plating Specification	ASTM B488	50µ in. minimum
Dielectric Type	PTFE	Teflon
Outer Conductor Material and Plating	Brass, Tri-Metal	
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification		80µ in. minimum
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Plating Specification		80µ in. minimum
Hex Size	5/16 Inch	
Torque		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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Typical Performance Data

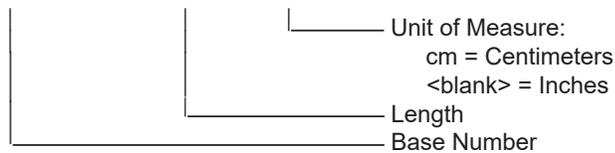
How to Order

Part Number Configuration:

FMCA100045

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Example: FMCA100045-12 = 12 inches long cable
FMCA100045-100cm = 100 cm long cable

Plenum Low Loss SMA 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 SMA Male to TNC Male Cable LMR-240-LLPX Coax with Times Microwave Components FMCA100045](#)

URL: <https://www.fairviewmicrowave.com/plenum-low-loss-sma-male-to-tnc-male-cable-lmr-240-llpx-coax-with-times-microwave-components-fmca100045-p.aspx>

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