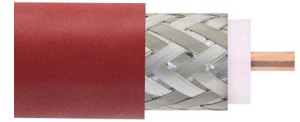


Times Microwave LMR-240-LLPX Low Loss Flexible Coax Cable Fluoropolymer Jacket



LMR-240-LLPX-BULK

Configuration

- Low Loss Flexible Cable
- 1 Shield(s)

Features

- Max Operating Frequency of 8 GHz
- Phase Velocity 76% VoP
- Max Operating Temperature +125°C

Applications

- Laboratory Applications
- General Purpose RF Interconnect

Description

LMR-240-LLPX low-loss coax cable from Fairview Microwave is only one of many radio frequency coaxial cable types specifically stocked to be ready for same business day shipment. Fairview Microwave's LMR-240-LLPX coax cable is manufactured in a flexible design and has a 50 Ohm impedance. This flexible 50 Ohm coax cable is constructed with a Fluoropolymer jacket of 0.21-inch diameter. Our RF coaxial cable is ideal for laboratory applications and general purpose RF interconnect applications.

Fairview Microwave's LMR-240-LLPX flexible coax cable with a polyethylene jacket is rated for a maximum operating frequency of 8 GHz. Our low-loss RF coaxial cable has a conductor made of copper. Our coax cable has a typical loss/attenuation of 1.4, 3.1, 5.4, 7.6, 9.9, 11.5, 12.9, 15.1, 20, and 24.3 dB/100ft at frequency of 30 MHz, 150 MHz, 450 MHz, 900 MHz, 1.5 GHz, 2 GHz, 2.5 GHz, 3.4 GHz, 5.8 GHz, and 8 GHz respectively.

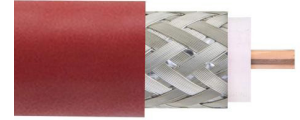
The LMR-240-LLPX coax cable with PTFE dielectric can operate at temperatures ranging from -40 to 125 degrees C. Additional specifications for this LMR-240-LLPX RF coaxial cable are on our downloadable PDF datasheet above. This low-loss RF cable has a one time minimum bend radius of 0.75 inch and a repeat minimum bend radius of 2.5 inch.

LMR-240-LLPX low-loss RF cable is part of more than one million RF, microwave, and millimeter wave parts in stock at Fairview Microwave. This LMR-240-LLPX coax cable is ready to buy and can be shipped worldwide. Fairview Microwave also maintains a wide selection of other radio frequency coaxial cable types that ship the same business day from our warehouse in the United States, as with the rest of our other RF/microwave and millimeter wave components.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		8	GHz
Impedance		50		Ohms
Velocity of Propagation		76		%
Shielding Effectiveness	90			dB
Operating Voltage (DC)			1,500	Vdc
Jacket Spark			5,000	Vrms
Inner Conductor DC Resistance			4	Ohms/1000ft
Outer Conductor DC Resistance			3.9	Ohms/1000ft

Times Microwave LMR-240-LLPX Low Loss Flexible Coax Cable Fluoropolymer Jacket



LMR-240-LLPX-BULK

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Nominal Capacitance		26.7 [87.6]		pF/ft [pF/m]
Nominal Inductance		0.067 [0.22]		uH/ft [uH/m]
Input Power (Peak)			5.6	kWatts

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	0.03	0.15	0.45	0.9	1.5	GHz
Attenuation, Typ	1.4	3.1	5.4	7.6	9.9	dB/100ft
	4.59	10.17	17.72	24.93	32.48	dB/100m

Description	F6	F7	F8	F9	F10	Units
Frequency	2	2.5	3.4	5.8	8	GHz
Attenuation, Typ	11.5	12.9	15.1	20	24.3	dB/100ft
	37.73	42.32	49.54	65.62	79.72	dB/100m

Mechanical Specifications

Diameter	0.214 in [5.44 mm]
Weight	0.035 lbs/ft [0.05 kg/m]
Min. Bend Radius (Installation)	0.75 in [19.05 mm]
Min. Bend Radius (Repeated)	2.5 in [63.5 mm]
Tensile Strength	60 lbs [27.22 kg]
Flat Plate Crush	85 lbs/in [1.52 kg/mm]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper, Strand	0.051 in [1.3 mm]
Dielectric	PTFE	0.15 in [3.81 mm]
First Shield	Tinned Copper Braid	0.178 in [4.52 mm]
Outer Conductor	Aluminum Tape	0.155 in [3.94 mm]
Jacket	Fluoropolymer	0.214 in [5.44 mm]

Environmental Specifications

Temperature	
Operating Range	-40 to +125 deg C
Installation Range	-40 to +125 deg C
Storage Range	-40 to +125 deg C

Times Microwave LMR-240-LLPX Low Loss Flexible Coax Cable Fluoropolymer Jacket



LMR-240-LLPX-BULK

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

Times Microwave LMR-240-LLPX Low Loss Flexible Coax Cable Fluoropolymer Jacket 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.

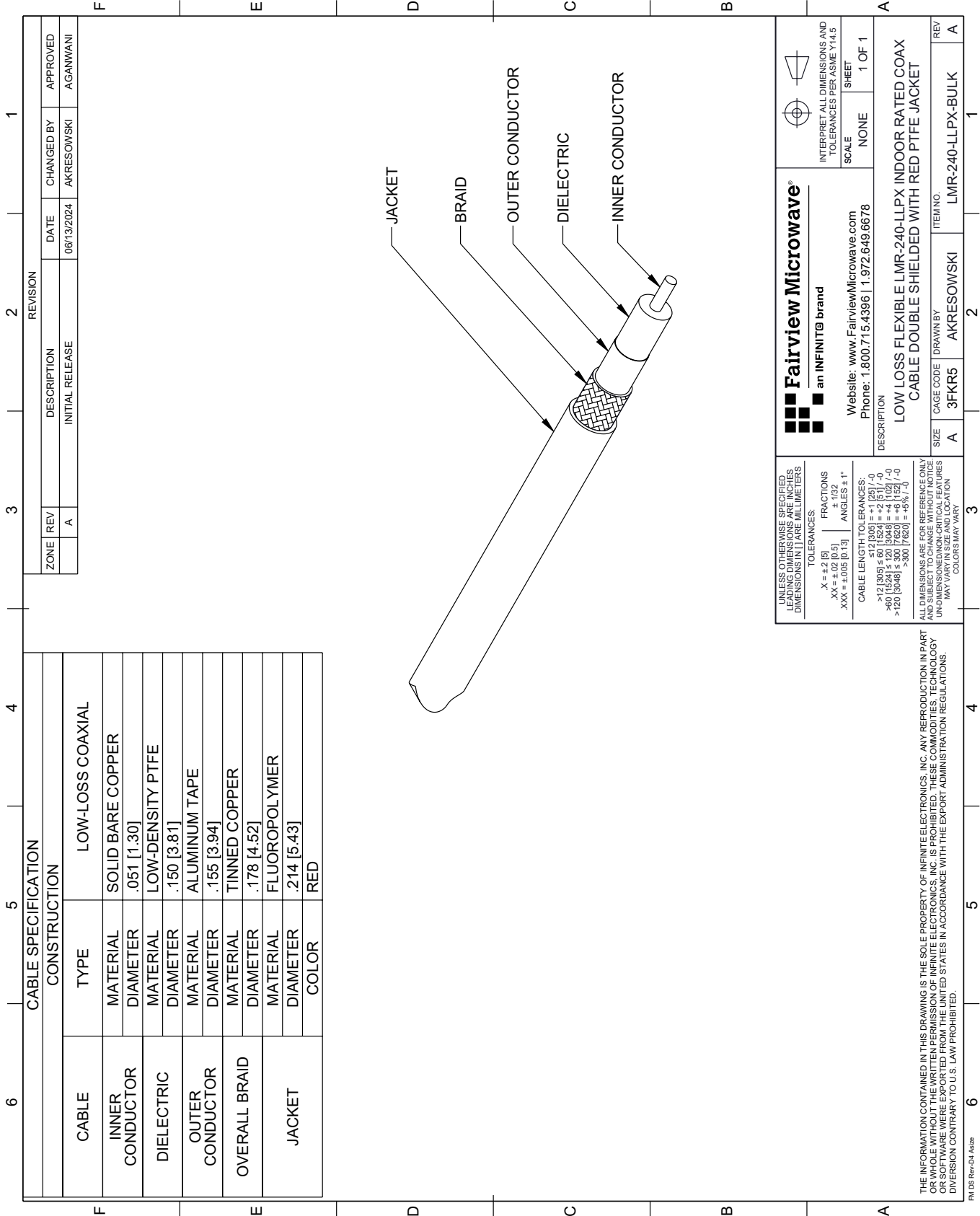
For additional information on this product, please click the following link: [Times Microwave LMR-240-LLPX Low Loss Flexible Coax Cable Fluoropolymer Jacket LMR-240-LLPX-BULK](#)

URL: <https://www.fairviewmicrowave.com/lmr240llpx-low-loss-flexible-coax-cable-fluoropolymer-jacket-lmr-240-llpx-bulk-p.aspx>

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume liability arising out of the use of any part or document.

LMR-240-LLPX-BULK CAD Drawing

Times Microwave LMR-240-LLPX Low Loss Flexible Coax Cable Fluoropolymer Jacket



ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	06/13/2024	AKRESOWSKI	AGANWANI

Fairview Microwave
an INFINIT® brand

Website: www.FairviewMicrowave.com
Phone: 1.800.715.4396 | 1.972.649.6678

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE
SHEET: 1 OF 1

UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES AND DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:
 .X = ±.2 [5] FRACTIONS ± 1/32
 .XX = ±.02 [0.5] ANGLES ± 1°
 .XXX = ±.005 [0.13]

CABLE LENGTH TOLERANCES:
 <12 [305] ≤ 60 [1524] = ±.1 [25] / -0
 >60 [1524] ≤ 120 [3048] = ±.4 [102] / -0
 >120 [3048] ≤ 300 [7620] = ±.6 [15] / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNDIMENSIONED/NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF INFINITE ELECTRONICS, INC. IS PROHIBITED. THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

PM DS Rev-D4 Alt26