

Times Microwave LMR-400-LLPL Low Loss Flexible Coax Cable Orange PVC (FR) Jacket



LMR-400-LLPL



Times Microwave Systems Connector Specification

Configuration

- Low Loss, Plenum Flexible Cable
- 2 Shield(s)

Features

- Max Operating Frequency of 8 GHz
- Low Loss Cable
- Phase Velocity 76% VoP

Applications

- Laboratory Applications
- General Purpose RF Interconnect

Description

LMR-400-LLPL coax cable from Fairview is only one of a large number of radio frequency twinaxial and coaxial cable types specifically stocked to be ready for quick shipment. Fairview Microwave LMR-400-LLPL coax cable is manufactured in a flexible design and has a 50 Ohm impedance. This low loss flexible 50 Ohm coax cable LMR-400-LLPL is constructed with a 0.405 inch diameter and PVC (FR) jacket.

LMR-400-LLPL flexible 50 Ohm coax cable with PVC (FR) jacket is rated for a 8 GHz maximum operating frequency. This 50 Ohm 0.405 inch diameter and low loss flexible coax cable is built with a shield count of 2 and RF shielding of 90 dB.

Fairview Microwave LMR-400-LLPL coax is constructed with PTFE (LD) dielectric and a maximum operating temperature of 75 degrees C. Times Microwave LMR-400-LLPL coax cable specs for this wire properties can be found on its RF coax cable LMR-400-LLPL datasheet PDF specifications above.

LMR-400-LLPL cable is part of more than one million RF, microwave and millimeter wave parts in stock at Fairview. This Times Microwave low loss LMR-400-LLPL coax cable is ready to buy and can be shipped worldwide. Fairview also maintains a wide selection of other radio frequency twinaxial and coaxial cable types that ship same-day from our warehouse as with the rest of our other RF/microwave and millimeter wave components.

* LMR™ is a trademark of Times Microwave Systems.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		8	GHz
Cutoff Frequency		15		GHz
Impedance		50		Ohms
Velocity of Propagation		76		%
Time Delay		1.34 [4.4]		ns/ft [ns/m]
Shielding Effectiveness	90			dB
Dielectric Withstanding Voltage (DC)			2,500	Vdc
Jacket Spark			8,000	Vrms
Inner Conductor DC Resistance			1.8	Ohms/1000ft

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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Outer Conductor DC Resistance			1.65	Ohms/1000ft
Nominal Capacitance		26.7 [87.6]		pF/ft [pF/m]
Nominal Inductance		0.067 [0.22]		uH/ft [uH/m]
Input Power (Peak)			16	kWatts

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	50	150	220	450	900	MHz
Attenuation, Typ	0.9	1.6	1.9	2.8	4	dB/100ft
	2.95	5.25	6.23	9.19	13.12	dB/100m
Input Power (CW), Max	2,570	1,480	1,220	840	590	Watts

Description	F6	F7	F8	F9	F10	Units
Frequency	1.5	1.8	2	2.5	5.8	GHz
Attenuation, Typ	5.2	5.7	6.1	6.8	10.8	dB/100ft
	17.06	18.7	20.01	22.31	35.43	dB/100m
Input Power (CW), Max	450	410	390	340	220	Watts

Mechanical Specifications

Diameter	0.405 in [10.29 mm]
Weight	0.111 lbs/ft [0.17 kg/m]
Min. Bend Radius (Installation)	1 in [25.4 mm]
Min. Bend Radius (Repeated)	4 in [101.6 mm]
Bending Moment	0.5 lbs-ft [0.68 N-m]
Tensile Strength	120 lbs [54.43 kg]
Flat Plate Crush	185 lbs/in [3.3 kg/mm]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper Clad Aluminum, 1 Strand	0.095 in [2.41 mm]
Conductor Type	Solid	
Dielectric	PTFE (LD)	0.285 in [7.24 mm]
First Shield	Aluminum Tape	
Second Shield	Tinned Copper Braid	
Jacket	PVC (FR), Orange	0.405 in [10.29 mm]

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Environmental Specifications

Temperature

Operating Range	-5 to 75 deg C
Storage Range	-5 to 75 deg C

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

Plotted and Other Data

Notes:

Times Microwave LMR-400-LLPL Low Loss Flexible Coax Cable Orange PVC (FR) 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-400-LLPL Low Loss Flexible Coax Cable Orange PVC \(FR\) Jacket LMR-400-LLPL](#)

URL: <https://www.fairviewmicrowave.com/lmr400llpl-low-loss-flexible-coax-cable-pvc-fr-jacket-lmr-400-llpl-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-400-LLPL CAD Drawing

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