

## Low Loss Flexible LMR-400-LLPL Plenum Rated Coax Cable Double Shielded with Orange PVC (FR) Jacket



### LMR-400-LLPL

#### Times Microwave Systems Coax Cable 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 part number from Pasternack is a LMR-400-LLPL coax cable that is flexible. Pasternack LMR-400-LLPL flexible coax cable is 50 Ohm and has a PTFE (LD) dielectric. Our LMR-400-LLPL coax is constructed with a 0.405 jacket made of PVC (FR). LMR-400-LLPL coax has a shield count of 2, a RF shielding of 90 dB and the maximum frequency for this Pasternack cable is 8 GHz. LMR-400-LLPL coax cable has an attenuation at 1 GHz of 4.14 dB.

Pasternack LMR-400-LLPL coax cables are part of over 40,000 RF, microwave and millimeter wave components. LMR-400-LLPL cables and our other RF parts are available for same day shipping worldwide. Custom RF cable assemblies using LMR-400-LLPL or other coax can be built and shipped same day as well.

#### 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
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

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#### 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]

#### Environmental Specifications

<b>Temperature</b>	
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:

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### LMR-400-LLPL

Low Loss Flexible LMR-400-LLPL Plenum Rated Coax Cable Double Shielded with Orange PVC (FR) Jacket from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Low Loss Flexible LMR-400-LLPL Plenum Rated Coax Cable Double Shielded with Orange PVC \(FR\) Jacket LMR-400-LLPL](#)

URL: <https://www.pasternack.com/50-ohm-low-loss-flexible-lmr400llpl-frpvc-double-shielded-orange-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. Pasternack Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.