

Times Microwave LMR-400-UF Low Loss Flexible Coax Cable Black TPF Jacket



LMR-400-UF



Times Microwave Systems Connector Specification

Configuration

- · Low Loss, Indoor/Outdoor Flexible Cable
- 2 Shield(s)

Features

- Max Operating Frequency of 8 GHz
- Low Loss Cable

Phase Velocity 85% VoP

Applications

· Laboratory Applications

General Purpose RF Interconnect

Description

LMR-400-UF 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-UF coax cable is manufactured in a flexible design and has a 50 Ohm impedance. This low loss flexible 50 Ohm coax cable LMR-400-UF is constructed with a 0.405 inch diameter and TPE jacket.

LMR-400-UF flexible 50 Ohm coax cable with TPE 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-UF coax is constructed with PE (F) dielectric and a maximum operating temperature of 85 degrees C. Times Microwave LMR-400-UF coax cable specs for this wire properties can be found on its RF coax cable LMR-400-UF datasheet PDF specifications above.

LMR-400-UF 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-UF 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.

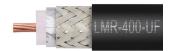
Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		8	GHz
Cutoff Frequency		16.2		GHz
Impedance		50		Ohms
Velocity of Propagation		85		%
Time Delay		1.2 [3.94]		ns/ft [ns/m]
Shielding Effectiveness	90			dB
Dielectric Withstanding Voltage (DC)			2,500	Vdc
Jacket Spark			8,000	Vrms
Inner Conductor DC Resistance			1.07	Ohms/1000ft

^{*} LMR™ is a trademark of Times Microwave Systems.



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Outer Conductor DC Resistance			1.65	Ohms/1000ft
Nominal Capacitance		23.9 [78.41]		pF/ft [pF/m]
Nominal Inductance		0.06 [0.2]		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	1.1	1.8	2.2	3.3	4.7	dB/100ft
	3.61	5.91	7.22	10.83	15.42	dB/100m
Input Power (CW), Max	2,140	1,220	1,000	690	480	Watts

Description	F6	F7	F8	F9	F10	Units
Frequency	1.5	1.8	2	2.5	5.8	GHz
Attenuation, Typ	6.2	6.8	7.2	8.1	13	dB/100ft
	20.34	22.31	23.62	26.57	42.65	dB/100m
Input Power (CW), Max	360	330	310	280	170	Watts

Mechanical Specifications

Diameter Weight

Min. Bend Radius (Installation)

Min. Bend Radius (Repeated)
Bending Moment

Bending Moment Tensile Strength Flat Plate Crush 0.405 in [10.29 mm] 0.087 lbs/ft [0.13 kg/m] 1 in [25.4 mm]

4 in [101.6 mm] 0.38 lbs-ft [0.52 N-m] 160 lbs [72.57 kg] 20 lbs/in [0.36 kg/mm]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper, Strand	0.108 in [2.74 mm]
Conductor Type	Stranded	
Dielectric	PE (F)	0.285 in [7.24 mm]
First Shield	Aluminum Tape	
Second Shield	Tinned Copper Braid	
Jacket	TPE, Black	0.405 in [10.29 mm]



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Environmental Specifications

Temperature

Operating Range -40 to 85 deg C Storage Range -70 to 85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Times Microwave LMR-400-UF Low Loss Flexible Coax Cable Black TPE 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-UF Low Loss Flexible Coax Cable Black TPE Jacket LMR-400-UF

URL: https://www.fairviewmicrowave.com/lmr400uf-low-loss-flexible-coax-cable-tpe-jacket-lmr-400-uf-p.aspx

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