

LMR-*400-UF UltraFlex Communications Coax

Ideal for...

- Drop-in replacement for RG-8/9913 Air-Dielectric type Cable
- Jumper Assemblies in Wireless Communications Systems
- Short Antenna Feeder runs
- Any application that requires periodic/repeated flexing



- LMR*- UltraFlex has a stranded center conductor and rubber outer jacket designed for multiple bending/ flexing cycles. It is used for both indoor and outdoor applications.
- Flexibility and bendability are hallmarks of the LMR-400-UF cable design. The flexible outer conductor enables the tightest bendradius available for any cable of similar size and performance.
- Low Loss is another hallmark feature of LMR-400-UF. Size for size LMR has the lowest loss of any flexible cable and comparable loss to semirigid hard-line cables.
- RF Shielding is 50 dB greater than typical single shielded coax (40 dB). The multi-ply bonded foil outer conductor is rated conservatively at > 90 dB (i.e. >180 dB between two adjacent cables).
- Weatherability: LMR-400-UF cables are designed for outdoor exposure and have a life expectancy in excess of 10 years.

- Connectors: A wide variety of connectors are available for LMR-400-UF cable, including all common interface types, reverse polarity, and solder-on center pins. Most LMR connectors employ crimp outer attachment using standard hex crimp sizes.
- Cable Assemblies: All LMR-400-UF cable types are available as pre-terminated cable assemblies. Refer to the section on FlexTech for further details.

	Part Description			
Part Number	Application	Jacket	Color	Stock Code
LMR-400-UF	Indoor/Outdoor	TPE	Black	54040

Construction Specifications				
Description	Material	ln.	(mm)	
Inner Conductor	Stranded BC	0.108	(2.74)	
Dielectric	Foam Polyethylene	0.285	(7.24)	
Outer Conductor	Aluminum Tape	0.291	(7.39)	
Overall Braid	Tinned Copper	0.320	(8.13)	
Jacket	Black Thermoplastic Elastomer	0.405	(10.29)	

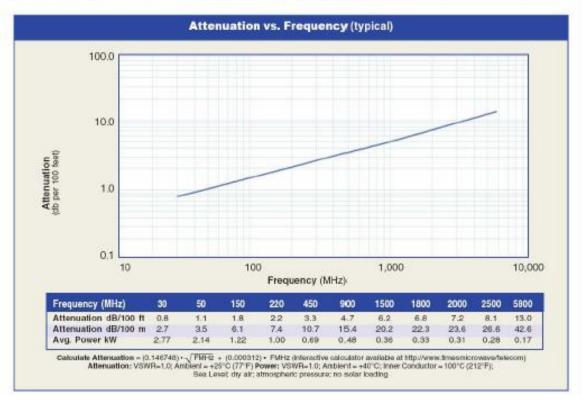




Mechanical Specifications				
Performance Property	Units	us	(metric)	
Bend Radius: installation	in. (mm)	1.0	(25.4)	
Bend Radius: repeated	in. (mm)	4.0	(101.6)	
Bending Moment	ft-lb (N-m)	0.375	(0.51)	
Weight	lb/ft (kg/m)	.088	(0.131)	
Tensile Strength	lb (kg)	160	(72.6)	
Flat Plate Crush	lb/in. (kg/mm)	20	(0.36)	

Performance Property	· E	+C
Installation Temperature Range	-40/+185	-40/+85
Storage Temperature Range	-94/+185	-70/+85
Operating Temperature Range	-40/+185	-40/+85

Electrical Specifications				
Performance Property	y Units	US	(metric	
Cutoff Frequency	GHz	3	16.2	
Velocity of Propagation	%		85	
Dielectric Constant	NA		1,38	
Time Delay	nS/ft (nS/m)	1.20	(3.92)	
Impedance	ohms		50	
Capacitance	pFift (pF/m)	23.9	(78.40)	
Inductance	uHft (uH/m)	0.000	(0.21)	
Shielding Effectiveness	dΒ		>90	
DC Resistance				
Inner Conductor	ohms/1000ft (/km)	1.07	(3.51)	
Outer Conductor	ohms/1000ft (/km)	1.65	(5.4)	
Voltage Withstand	Volts DC	2500		
Jacket Spark	Volts RMS	- 3	8000	
Peak Power	kW		16	



SWIFT (BIC): HYVEDEMMXXX