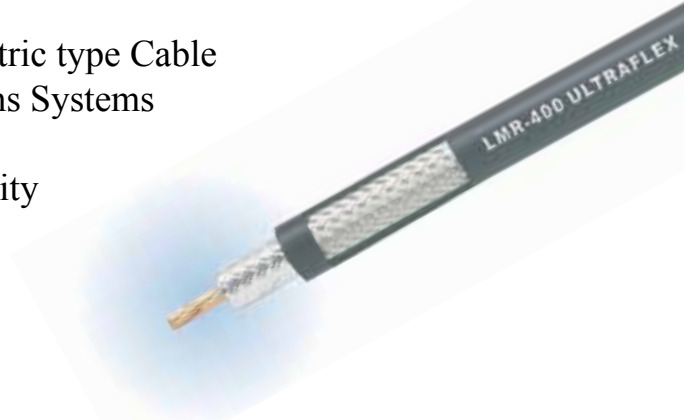


LMR-[®]400-UF UltraFlex Communications Coax

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 additional flexibility



Part Description				
Part Number	Application	Jacket	Color	Stock Code
LMR-400-UF	Indoor/Outdoor	TPE	Black	54040
LMR-400-UF-FR	Indoor/Outdoor	FRPE	Black	54270

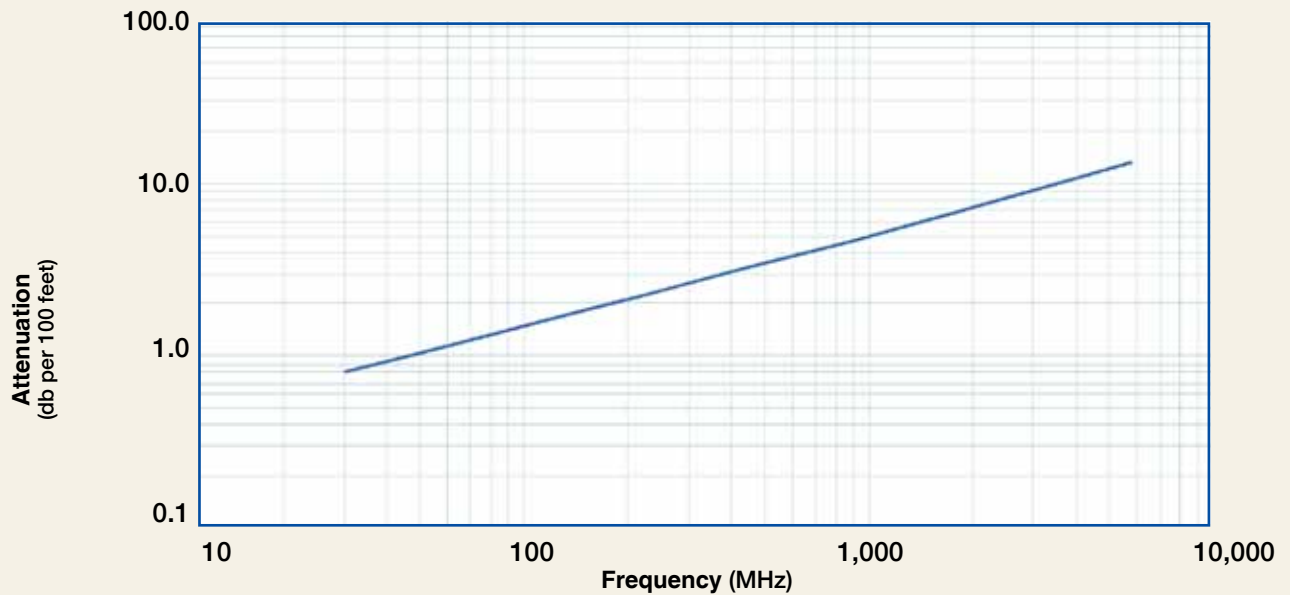
Environmental Specifications			
Performance Property	°F	°C	
Installation Temperature Range	-40/+185	-40/+85	
Storage Temperature Range	-94/+185	-70/+85	
Operating Temperature Range	-40/+185	-40/+85	

Construction Specifications				
Description	Material	In.	(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	(See table)	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)	

Electrical Specifications				
Performance Property	Units	US	(metric)	
Velocity of Propagation	%	83		
Dielectric Constant	NA	1.38		
Time Delay	nS/ft (nS/m)	1.20	(3.92)	
Impedance	ohms	50		
Capacitance	pF/ft (pF/m)	23.9	(78.40)	
Inductance	uH/ft (uH/m)	0.060	(0.21)	
Shielding Effectiveness	dB	>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	8000		
Peak Power	kW	16		

Attenuation vs. Frequency (typical)



Frequency (MHz)	30	50	150	220	450	900	1500	1800	2000	2500	5800
Attenuation dB/100 ft	0.8	1.1	1.8	2.2	3.3	4.7	6.2	6.8	7.2	8.1	13.0
Attenuation dB/100 m	2.7	3.5	6.1	7.4	10.7	15.4	20.2	22.3	23.6	26.6	42.6
Avg. Power kW	2.77	2.14	1.22	1.00	0.69	0.48	0.36	0.33	0.31	0.28	0.17

Calculate Attenuation = $(0.146748) \cdot \sqrt{FMHz} + (0.000312) \cdot FMHz$ (interactive calculator available at http://www.timesmicrowave.com/cable_calculators)
Attenuation: VSWR=1.0; Ambient = +25°C (77°F) **Power:** VSWR=1.0; Ambient = +40°C; Inner Conductor = 100°C (212°F);
 Sea Level; dry air; atmospheric pressure; no solar loading