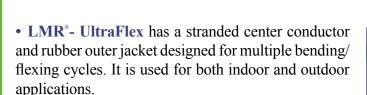


LMR®-195-UF UltraFlex Communications Coax

Ideal for...

- Jumper Assemblies in Wireless Communications Systems
- Short Antenna Feeder runs
- Any application that requires periodic/repeated flexing



- Flexibility and bendability are hallmarks of the LMR-195-UF cable design. The flexible outer conductor enables the tightest bend radius available for any cable of similar size and performance.
- Low Loss is another hallmark feature of LMR-195-UF. Size for size LMR has the lowest loss of any flexible cable and comparable loss to semirigid hardline 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-195-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 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-195-UF cable types are available as pre-terminated cable assemblies. Refer to the section on FlexTech for further details.

		Part Description Stock			
Part Number	Application	Jacket	Color		
LMR-195-UF	Indoor/Outdoor	TPE	Black	54212	

Construction Specifications						
Description	Material	ln.	(mm)			
Inner Conductor	Stranded BC	0.038	(0.97)			
Dielectric	Foam Polyethylene	0.110	(2.79)			
Outer Conductor	Aluminum Tape	0.116	(2.95)			
Overall Braid	Tinned Copper	0.139	(3.53)			
Jacket	Black Thermoplastic Elastomer	0.195	(4.95)			

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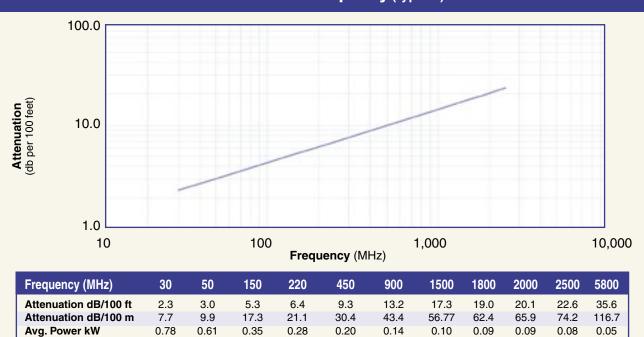
Mechanical Specifications							
Performance Property	Units	US	(metric)				
Bend Radius: installation	in. (mm)	0.5	(12.7)				
Bend Radius: repeated	in. (mm)	2	(50.8)				
Bending Moment	ft-lb (N-m)	0.1	(0.14)				
Weight	lb/ft (kg/m)	0.021	(0.03)				
Tensile Strength	lb (kg)	40	(18.2)				
Flat Plate Crush	lb/in. (kg/mm)	10	(0.18)				

Environmental Specifications					
Performance Property	۴	°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	Units	US	(metric)			
Cutoff Frequency	GHz		41			
Velocity of Propagation	%		76			
Dielectric Constant	NA		1.56			
Time Delay	nS/ft (nS/m)	1.27	(4.17)			
Impedance	ohms		50			
Capacitance	pF/ft (pF/m)	25.4	(83.3)			
Inductance	uH/ft (uH/m) 0.064		(0.21)			
Shielding Effectiveness	dB	>90				
DC Resistance						
Inner Conductor	ohms/1000ft (/km)	9.5	(31.2)			
Outer Conductor	ohms/1000ft (/km)	4.9	(16.1)			
Voltage Withstand	Volts DC	1000				
Jacket Spark	Volts RMS	3000				
Peak Power	kW		2.5			



Attenuation vs. Frequency (typical)



Calculate Attenuation = (0.424232) • √FMHz + (0.000563) • 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



Connectors

Interface	Description	Part Number	Stock Code	VSWR** Co Freq. (GHz)	oupling Nut	Inner Contact Attach	Outer Contact Attach	Finish* Body /Pin	Length in (mm)	Width in (mm)	Weight Ibs (g)
N male	Straight Plug	TC-195-NM	3190-1555	<1.25:1 (2.5)	Knurl	Solder	Crimp	S/G	1.5 (38.1)	0.75 (19.1)	0.073 (33.1)
SMA male	Straight Plug	TC-195-SM	3190-1553	<1.25:1 (2.5)	Hex	Solder	Crimp	SS/G	1.0 (25.4)	0.32 (8.1)	0.015 (6.8)
TNC male	Straight Plug	TC-195-TM	3190-1554	<1.25:1 (2.5)	Knurl	Solder	Crimp	S/G	1.4 (35.6)	0.59 (15.0)	0.045 (20.4)

^{*} Finish metals: N=Nickel, S=Silver, G=Gold, SS=Stainless Steel, A=Alballoy **VSWR spec based on 3 foot cable with a connector pair





Install Tools

Туре	Part Number	Stock Code	Description
Crimp Tool	CT-240/200/195/100	3190-667	Crimp tool for LMR-100, 195, 200 and 240 connectors
Cutting Tool	CCT-01	3190-1544	Cable end flush cut tool
Replacement Blade	RB-01	3190-1609	Replacement blade for cutting tool