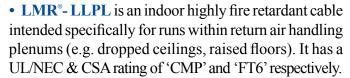


LMR®-195-LLPL Flexible Low Loss Plenum Coax

Ideal for...

- Indoor Plenum Feeder runs
- Drop in replacement for RG-142
- UL/NEC/CSA rated CMP/FT6
- Any wireless application (e.g. LMDS, MMDS, WLL, GPS, LMR, WLAN, WISP, WiMax, SCADA, Cellular, PCS, Paging) requiring an easily routed, low loss RF cable for in-building systems



- **Flexibility** and bendability are hallmarks of the LMR-195-LLPL 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-LLPL. 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-195-LLPL cables are designed for indoor Plenum applications. Black jacketed LMR-LLPL versions can be supplied for applications that originate outdoors (e.g., rooftop) and subsequently enter the building.
- Connectors: A variety of connectors are available for LMR-195-LLPL cable, including the most common interface types. Most employ crimp outer attachment using standard hex crimp sizes.
- Cable Assemblies: All LMR-195-LLPL cable types are available as pre-terminated cable assemblies. Refer to the section on FlexTech for further details.

	Part Description					
Part No.	Application	Jacket	Color	Stock Code		
LMRR-195-LLPL	Indoor/Outdoor Plenum CMP/FT-6	FRPVC	Orange	54211		

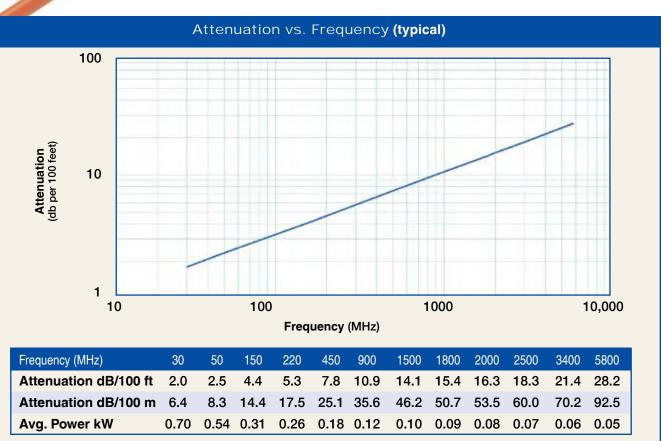
Construction Specifications							
Description	Material	ln.	(mm)				
Inner Conductor	Solid BC	0.037	(0.94)				
Dielectric	Low density PTFE	0.113	(2.87)				
Outer Conductor	Aluminum Tape	0.119	(3.02)				
Overall Braid	Tinned Copper	0.142	(3.61)				
Jacket	Orange FRPVC	0.195	(4.95)				

Mechanical Specifications							
Performance Property	Units	US	(metric)				
Bend Radius: installation	in. (mm)	0.5	(12.7)				
Bend Radius: repeated	in. (mm)	2.0	(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	°F	°C			
Installation Temperature Range	+23/+167	-5/+75			
Storage Temperature Range	+23/+167	-5/+75			
Operating Temperature Range	+23/+167	-5/+75			

Electrical Specifications							
Performance Property	Units	US	(metric)				
Velocity of Propagation	າ %	76					
Dielectric Constant	NA	1.73					
Time Delay	nS/ft (nS/m)	1.34	(4.40)				
Impedance	ohms	50					
Capacitance	pF/ft (pF/m)	26.7	(87.6)				
Inductance	uH/ft (uH/m)	0.067	(0.22)				
Shielding Effectiveness	dB	>90					
DC Resistance							
Inner Conductor	ohms/1000ft (/km)	7.6	(24.9)				
Outer Conductor	ohms/1000ft (/km)	4.9	(16.1)				
Voltage Withstand	Volts DC	1000					
Jacket Spark	Volts RMS	3000					
Peak Power	kW	2.5					





Calculate Attenuation =

(0.356297) •√ FMHz + (0.000183) • 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; Jacket = +75°C (167°F); Sea Level; dry air; atmospheric pressure; no solar loading



Connec Interface	tors Description	Part Number	Stock Code	VSWR** Freq. (GHz)	Coupling Nut	Inner Contact Attach		Finish* Body /Pin	Length in (mm)	Width in (mm)	Weight lb (g)
1. 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)
2. 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)
3. 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
Deburr Tool	DBT-U	3192-001	Removes center conductor rough edges
Cutting Tool	CCT-01	3190-1544	Cable end flush cut tool
Replacement Bl	ade RB-01	3190-1609	Replacement blade for cutting tool
Strip Tool	CST-195/200	3192-102	Combination prep tool for LMR-195 & 200
Replacement Bl	ade Kit RB-CST	3192-086	Replacement blade kit for all strip tools

