

LMR®-195 Flexible Low Loss Communications Coax Ideal for...

- Jumper Assemblies in Wireless Communications Systems
- Short Antenna Feeder runs
- Any application (e.g. WLL, GPS, LMR, WLAN, WISP, WiMax, SCADA, Mobile Antennas) requiring an easily routed, low loss RF cable
- Drop-in replacement for RG-58 and RG-142

Part Description						
Part Number	Application	Jacket	Color	Code		
LMR-195	Outdoor	PE	Black	54110		
LMR-195-DB	Outdoor/Watertight	PE	Black	54113		
LMR-195-FR	Indoor/Outdoor Riser CMR	FRPE	Black	54111		
LMR-195-FR-W	Indoor/Outdoor Riser CMR	FRPE	White	54158		
LMR-195-FR-PVC Indoor/Outdoor Riser CMR FRPVC Black 5						
LMR-195-MA	Mobile Antennas	PVC	Black	54210		
LMR-195-PVC	General Purpose	PVC	Black	54215		
LMR-195-PVC-	W General Purpose	PVC	White	54199		

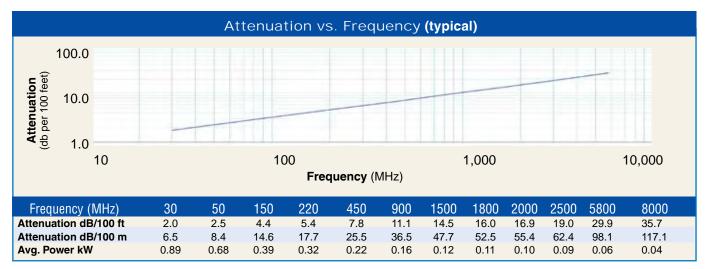
Environmental Specifications						
Performance Property	°F	°C				
Installation Temperature Range	-40/+185	-40/+85				
Storage Temperature Range	-94/+185	-70/+85				
Operating Temperature Range	-40/+185	-40/+85				

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)	0.2	(0.27)				
Weight	lb/ft (kg/m)	0.021	(0.03)				
Tensile Strength	lb (kg)	40	(18.2)				
Flat Plate Crush	lb/in. (kg/mm)	15	(0.27)				

Construction Specifications							
Description	(mm)						
Inner Conductor	Solid BC	0.037	(0.94)				
Dielectric	Foam PE	0.110	(2.79)				
Outer Conductor	Aluminum Tape	0.116	(2.95)				
Overall Braid	Tinned Copper	0.139	(3.53)				
Jacket	(see table)	0.195	(4.95)				

LIME 195 TIMES MICE

Electrical Specifications							
Performance Property	Units	US	(metric)				
Velocity of Propagation	%	80					
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 DC Resistance	dB	>90					
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					





Connect	tors	Part	Stock	VSI	NR**	Coupline	Inner Contact	Outer	Finish* Body	ما	ngth	Wi	dth	We	ight
Interface	Description		Code	Freq.		Nut	•	Attach	/Pin		(mm)		mm)	lb	(g)
1. N Male	Straight Plug	TC-195-NMH-X	3190-2880	<1.25:1	(2.5)	Knurl	Solder	Crimp	S/G	1.5	(38.1)	0.75	(19.1)	0.073	(33.1)
2. N Male	Right Angle	TC-195-NMH-RA-D	3190-2425	<1.35:1	(6)	Hex/Knur	l Solder	Crimp	A/G	1.3	(32.1)	1.19	(30.1)	0.083	(37.5)
3. SMA Male	Straight Plug	TC-195-SM-SS-X	3190-2878	<1.25:1	(2.5)	Hex	Solder	Crimp	SS/G	1.0	(25.4)	0.32	(8.1)	0.015	(6.8)
4. TNC Male	Straight Plug	TC-195-TM-X	3190-2879	<1.25:1	(2.5)	Knurl	Solder	Crimp	S/G	1.4	(35.6)	0.59	(15.0)	0.045	(20.4)
5. SMA Male	Straight Plug	EZ-195-SM-X	3190-6140	<1.30:1	(6)	Hex	Spring Finge	r Crimp	A/G	0.9	(22.0)	0.37	(9.4)	0.019	(8.6)
6. BNC Male	Straight Plug	EZ-195-BM-X	3190-6141	<1.30:1	(4)	Knurl	Spring Finger	Crimp	A/G	1.1	28.4	0.60	(14.5)	0.045	(20.4)
7. TNC Male	Reverse Pola	rity EZ-195-TM-RP-	X3190-6142	<1.35:1	(6)	Hex	Spring Finger	Crimp	A/G	1.1	(28.3)	0.87	(22.0)	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 Combination Strip Tool Deburr Tool	CCT-02 CST-195/200 DBT-U	3192-165 3192-102 3192-001	Cable end flush cut tool Prep tool for LMR-195/200 Removes center conductor rough edges
Replacement Blade Kit	RB-CST	3192-086	Replacement blade kit for all CST cutting tools



Calculate Attenuation = (0.356859)√FMHz + (0.000470) • 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