## TIMES MICROWAVE SYSTEMS

## 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-P	VC Indoor/Outdoor Riser CN	MR FRP	/C Black	54105				
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				

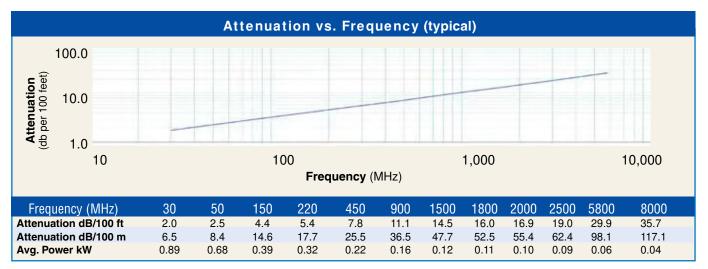
Environmental Specifications							
Performance Property	Cification F	.e °C					
Installation Temperature Range	-40/+185	-40/+85					
Storage Temperature Range	-94/+185	-70/+85					
Operating Temperature Range	-40/+185	-40/+85					

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	Material	(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 MIC

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**	Couplin	Inner c Contact	Outer	Finish* Body	Lenc	oth	Wie	dth	We	ight
Interface	Description		Code	Freq.		Nut	•	Attach	/Pin		nm)		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 (3	8.1)	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 (3	2.1)	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 (2	5.4)	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 (3	5.6)	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 (2	2.0)	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 2	8.4	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 (2	8.3)	0.87	(22.0)	0.045	(20.4)

<sup>\*</sup> 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**

ilistali 10013							
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

3192-102