

# LMR<sup>®</sup>-lite

ISO 9001 Certified

*NEW 50 Ohm Lightweight Low Loss High Performance Coaxial Cables;*

- LMR-LW195
- LMR-LW200
- LMR-LW240
- LMR-LW400
- LMR-LW600



LMR<sup>®</sup>-lite 50 ohm lightweight low loss coaxial cables employ an aluminum braid shield instead of the traditional tinned copper shield. Specially designed and engineered with an excellent combination of electrical, physical and mechanical properties that reduces weight and cost dramatically without sacrificing performance, the optimized aluminum braid shield on LMR<sup>®</sup>-lite provides for an extremely cost effective solution for many applications. Since the outer conductor is the same aluminum/polyester/aluminum tape as standard LMR<sup>®</sup> cable, the resulting attenuation is the same.

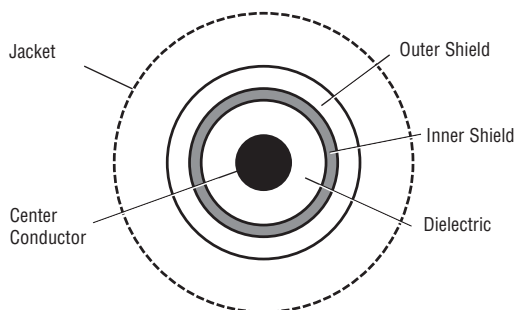
LMR<sup>®</sup>-lite uses the same connectors, tools and installation accessories as standard LMR<sup>®</sup> cable making it a complete system that can be used virtually anywhere high performance coaxial cables are needed. This includes internal equipment wiring, interconnects, cabinet, base station and antenna feeders, in-building runs and rooftop installations.

LMR<sup>®</sup>-lite cables are suitable for use in virtually all types of wireless applications including land mobile, cellular, PCS, paging, WISP, WiFi, WiMax, WLL, wireless data, SCADA and more.

#### Features:

- 30% Weight Savings
- Lower Cost
- Easier Handling for Faster Installation
- Compatible with Standard LMR<sup>®</sup> Connectors, Prep Tools and Accessories
- 5 Year Warranty

# LMR<sup>®</sup>-lite Specifications:



## Construction

**Center Conductor:** Solid Bare Copper for LMR-LW195 through LMR-LW240  
Copper-Clad Aluminum for LMR-LW400 and LMR-LW600

**Dielectric:** Closed Cell Low Density Foam PE

**Inner Shield:** Aluminum/Polyester/Aluminum

**Outer Shield:** Aluminum Braid

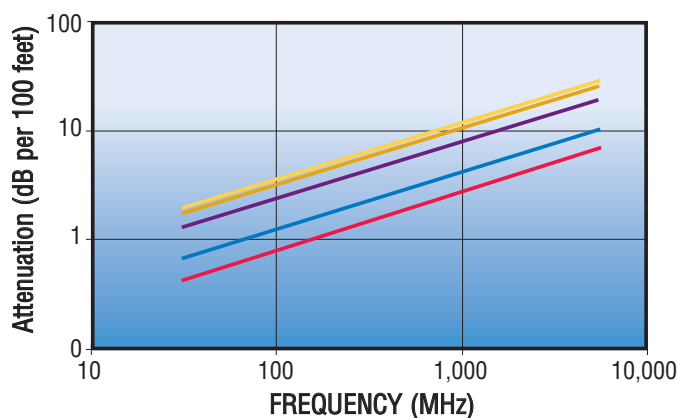
**Jacket:** Black UV & Sunlight Resistant Polyethylene

## Benefits

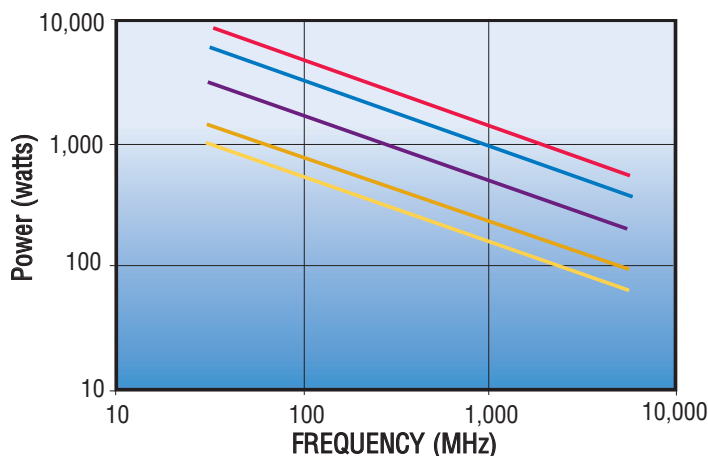
- Low Loss
- -40°C to +85°C Operating Range
- Lightweight for Low Shipping Cost and Ease of Handling
- Excellent Environmental Stability
- Uses same Connectors and Accessories as Standard LMR<sup>®</sup> Cable

	LMR-LW 195	LMR-LW 200	LMR-LW 240	LMR-LW 400	LMR-LW 600
<b>Physical Specifications</b>					
Overall Diameter: in (mm)	0.195 (4.95)	0.195 (4.95)	0.240 (6.10)	0.405 (10.29)	0.590 (14.99)
Bend Radius: in (mm)	0.5 (12.7)	0.5 (12.7)	0.75 (19.1)	1.0 (25.4)	1.5 (38.1)
Weight: lbs/1000ft (lb/km)	14.7 (48)	14.7 (48)	25.8 (85)	50.4 (165)	99.0 (325)
<b>Environmental Specifications</b>					
Operating Temp. Range	-40°F + 185°F (-40°C + 85°C)				
<b>Electrical Specifications</b>					
Velocity of Propagation	80	83	84	85	87
Impedance	50 Ohms				
Capacitance: pF/ft (pF/m)	24.3 (79.7)	24.5 (80.4)	24.2 (79.4)	23.9 (78.0)	23.4 (76.8)
Center Conductor DC Resistance	7.6 (24.9)	5.4 (17.6)	3.2 (10.5)	1.4 (4.6)	0.53 (1.7)
Shield (s) DC Resistance	18.1 (59.4)	18.1 (59.4)	14.1 (47.2)	6.1 (20.0)	4.4 (14.6)
Test Frequency	.03 GHz to 5.8 GHz				

### ATTENUATION vs. FREQUENCY



### MAXIMUM POWER HANDLING vs. FREQUENCY



LMR-LW195 — Yellow  
LMR-LW200 — Orange  
LMR-LW240 — Purple  
LMR-LW400 — Blue  
LMR-LW600 — Red



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