

LMR400 LWC400 50Ω “Lowloss Weatherproof Cable”

Benefits of LWC Cable

Low Cost: Equivalent in specification to LMR400 cable but more cost effective. More flexible than corrugated copper cables; eliminating the need for jumper cables.

The most cost effective choice for antenna feeders and jumper cables installation.

Low Loss: Loss comparable to corrugated copper cables.

Weatherproof : Black polyethylene UV protected jacket for long life. Bonded aluminum tape resists moisture ingress.

Much more flexible and installation friendly than corrugated cables.

Flexibility:

Attenuation (dB)

02/06/2008		100ft	LMR400	LWC400	LWC400	
Frequency/Size		0.405"	100meters	100meters	Per 1 meter	
30 MHz		0.7	2.2	2.20	.022	
50 MHz		0.9	2.9	2.90	.029	
100MHz				4.10	.041	
150 MHz		1.5	5.0			
220 MHz		1.8	6.1			
400MHz				8.40	.084	
450 MHz		2.7	8.9	8.90	.089	
700MHz				11.20	.112	
800MHz				12.00	.12	
900 MHz		3.9	12.8	12.80	.128	
1000MHz				13.50	.135	
1,500 MHz		5.1	16.8			
UMTS				20.20	.202	
2400MHz			22.2	21.7	.217	
5800MHz			35.5	35.5	.335	

Power Handling (kW; +40C; Sea Level; Continuous Duty Cycle)

		100ft				
Frequency/Size		0.405"				
30 MHz		3.33				
50 MHz		2.60				
150 MHz		1.50				
220 MHz		1.20				
450 MHz		0.83				
900 MHz		0.58				
1,500 MHz		0.44				
1800MHz		1.40				
2000MHz		0.37				
2500MHz		0.33				

5800MHz		0.21			
Velocity		85%			

Low Duty Cycle Transmissions – For less than 50% duty cycle. Power rating may be doubled.

General Performance Properties

		LWC400	
Conductor:		0.109"	2.74mm
Dielectric: Cellular PE		0.285"	7.24mm
Shield: Aluminum Tape		0.291"	7.39mm
Tinned Copper Braid		0.320"	8.13mm
Jacket: Black PE		0.405"	10.29mm
Bend Radius		1.0"	25.4mm
Weight per 100 meter roll			13kg
Packaging size 100 meter roll	Wooden roll	cm	40 x40 x18

Environmental Specifications

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

Notes

- (1) Center conductor in LMR400 and LMR600 is Copper Clad Aluminum.
- (2) Low loss, closed cell polyethylene foam, non-kinking.
- (3) Aluminum Laminated Tape bonded to the Dielectric with a Tinned Copper Overbraid.
- (4) Black, UV Protected Polyethylene.
- (5) Less than 1 ohm impedance change at bend.
- (6) LMR195 utilizes the same connectors as RG-58





Frequency scan on 02/06/2008 on important frequencies.

