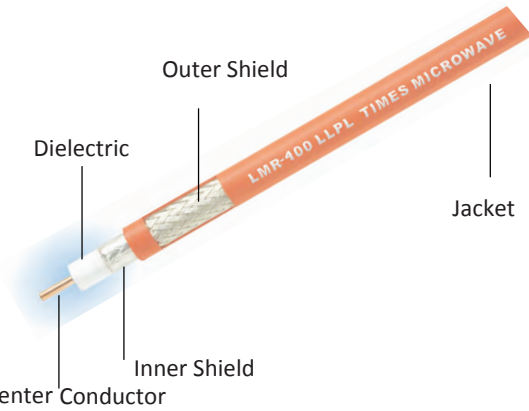


# LMR-LLPL Cables

## Cable Feature:



Flexibility	Fair/Good
Cost	Medium
Attenuation	Low
Power Handling	Medium/High
Temperature	Medium
Connector Availability	Very Good

	LMR-400-LLPL	LMR-500-LLPL	LMR-600-LLPL	LMR-900-LLPL	LMR-1200-LLPL
<b>AA Drawing Number</b>	AA-8317	AA-8278	AA-8279	AA-8280	AA-8281
<b>Part Number</b>	54070	54060	54061	54062	54063
<b>Physical Specifications</b>					
Description	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)
Center Conductor	Solid BCCAl	Solid BCCAl	Solid BCCAl	BC Tube	BC Tube
	0.095 (2.41)	0.123 (3.12)	0.150 (3.81)	0.227 (5.77)	0.310 (7.87)
Dielectric	PTFE	PTFE	PTFE	PTFE	PTFE
	0.285 (7.24)	0.370 (9.40)	0.455 (11.56)	0.680 (17.27)	0.920 (23.37)
Inner Shield	MT	MT	MT	MT	MT
	0.291 (7.39)	0.376 (9.55)	0.461 (11.71)	0.686 (17.42)	0.926 (23.52)
Interlayer	/	/	/	/	/
Outer Shield	TC	TC	TC	TC	TC
	0.320 (8.13)	0.405 (10.29)	0.490 (12.45)	0.732 (18.59)	0.972 (24.69)
Jacket	FRPVC	FRPVC	FRPVC	FRPVC	FRPVC
	0.405 (10.28)	0.500 (12.70)	0.590 (14.99)	0.870 (22.10)	1.200 (30.48)
<b>Mechanical Specifications</b>					
Bend Radius	4.0 (101.6)	5.0 (127.0)	6.0 (152.4)	9.0 (228.6)	12.0 (304.8)
Weight	0.114 lb/ft	0.194 lb/ft	0.240 lb/ft	0.542 lb/ft	0.700 lb/ft
Operating Temperature Range	-5/+75 °C	-5/+75 °C	-5/+75 °C	-5/+75 °C	-5/+75 °C
<b>Electrical Specifications</b>					
Impedance	50 ohms	50 ohms	50 ohms	50 ohms	50 ohms
Shielding Effectiveness	90 dB	90 dB	90 dB	90 dB	90 dB
Dielectric Constant	1.73	1.73	1.73	1.73	1.73
Velocity of Propagation	0.76	0.76	0.76	0.76	0.76
Capacitance	26.7pF/ft	26.7pF/ft	26.7pF/ft	26.7pF/ft	26.7pF/ft
DC Voltage (kV)	5	7	8	5	9
<b>Attenuation: dB/100ft (100m) (+25 °C Ambient; Sea Level)</b>					
13.56 MHz	0.47 (1.55)	0.38 (1.25)	0.32 (1.05)	0.20 (0.67)	0.16 (0.52)
50 MHz	0.91 (2.99)	0.74 (2.42)	0.62 (2.03)	0.40 (1.30)	0.31 (1.02)
100 MHz	1.29 (4.25)	1.05 (3.44)	0.88 (2.89)	0.57 (1.86)	0.44 (1.45)
1000 MHz	4.22 (13.83)	3.45 (11.30)	2.91 (9.55)	1.92 (6.30)	1.51 (4.95)
1500 MHz	5.21 (17.09)	4.27 (14.01)	3.62 (11.86)	2.40 (7.88)	1.89 (6.20)
2000 MHz	6.06 (19.89)	4.98 (16.34)	4.22 (13.85)	2.82 (9.26)	2.22 (7.29)
2500 MHz	6.83 (22.39)	5.62 (18.43)	4.77 (15.65)	3.20 (10.51)	2.53 (8.29)
3000 MHz	7.53 (24.68)	6.20 (20.34)	5.27 (17.30)	3.56 (11.67)	2.81 (9.21)
K1	0.127694	0.103100	0.086250	0.054930	0.042798
K2	0.000177	0.000185	0.000183	0.000183	0.000155
<b>Power (Watts) (+25 °C Ambient; Sea Level)</b>					
13.56 MHz	10052	14391	19407	38959	58185
50 MHz	5212	7452	10038	20069	29945
100 MHz	3672	5244	7057	14060	20962
1000 MHz	1131	1602	2140	4163	6172
1500 MHz	915	1294	1725	3330	4929
2000 MHz	787	1110	1477	2835	4191
2500 MHz	700	985	1309	2499	3689
3000 MHz	635	893	1184	2251	3320

\* BCCAl = Bare Copper Clad Aluminum