

LMR Series microwave cable assemblies Dc-6 GHz



The LMR Series cable is broadband, flexible 50 Ohm coax designed for wireless communications equipment and applications. LMR Series, is optimized for low loss and even tighter bends, since it utilizes a stranded center conductor. We'll help you match the excellent flexibility, 90dB shielding and tight bend radius of LMR Series cable to the right connector for your wireless communication applications.

LMR LOW LOSS COAXIAL CABLE	LMR 195	LMR 240	LMR 400	LMR 600
Inner conductor	Cu Ø 0.94 mm	Cu Ø 1.42 mm	CuAl wire Ø 2.74 mm	CuAl wire Ø 4.47 mm
Dielectric	Foam PE Ø 2.79 mm	Foam PE Ø 3.81 mm	Foam PE Ø 7.24 mm	Foam PE Ø 11.56 mm
Jacket	PE or PVC Ø 4.95 mm	PE or PVC Ø 6.10 mm	PE or PVC Ø 10.29 mm	PE or PVC Ø 14.99 mm
Minimum bend radius	13 mm (stat) 51 mm (dyn)	19 mm (stat) 64 mm (dyn)	25 mm (stat) 100 mm (dyn)	38 mm (stat) 152 mm (dyn)
Impedance	50 Ω (± 2 Ω)	50 Ω (± 2 Ω)	50 Ω (± 2 Ω)	50 Ω (± 2 Ω)
Cut off frequency	6 GHz	6 GHz	6 GHz	6 GHz
Velocity of propagation	76%	84%	85%	87%
Shielding effectiveness	90 dB / m (typ)	90 dB / m (typ)	90 dB / m (typ)	90 dB / m (typ)
Temperature range	- 40 °C (min) + 85 °C (max)	- 40 °C (min) + 85 °C (max)	- 40 °C (min) + 85 °C (max)	- 40 °C (min) + 85 °C (max)
Weight (Kg/Km)	3	50	100	200
ATTENUATION (DB/M)				
150 MHz	0.15	0.1	0.05	0.03
220 MHz	0.18	0.12	0.06	0.04
450 MHz	0.25	0.17	0.09	0.06
900 MHz	0.37	0.25	0.13	0.09
1500 MHz	0.48	0.32	0.16	0.1
L Band	0.50 dB @1.518 GHz 0.51 dB @1.675 GHz	0.30 dB @1.518GHz 0.31 dB @1.675 GHz	0.16 dB @1.518GHz 0.17 dB @1.675 GHz	0.11 dB @1.518 GHz 0.11 dB @1.675 GHz
1800 MHz	0.53	0.35	0.19	0.12
S Band	0.55 dB @1.97 GHz 0.65 dB @2.69 GHz	0.40 dB @1.97 GHz 0.45 dB @2.69 GHz	0.20 dB @1.97 GHz 0.23 dB @2.69 GHz	0.10 dB @1.970 GHz 0.20 dB @2.690 GHz
2000 MHz	0.56	0.38	0.2	0.13
2500 MHz	0.63	0.42	0.22	0.15
C Band	0.70 dB @3.40 GHz 0.80 dB @4.20 GHz	0.50 dB @3.40 GHz 0.60 dB @4.20 GHz	0.30 dB @3.40 GHz 0.32 dB @4.20 GHz	0.22 dB @3.40 GHz 0.20 dB @4.20 GHz
5800 MHz	0.98	0.67	0.36	0.24
POWER (W)				
450 MHz	220	380	830	1350
900 MHz	160	260	580	930
1800 MHz	110	200	400	630
2000 MHz	100	170	370	590
2500 MHz	90	150	330	520

Connectors available : SMA, BMA, SMP, SSMP, MCX, MMCX, SMB, N, TNC, others upon request...

Option : Marking / protection / phase Matching

Custom length available upon request

Typical applications :

- Jumper Assemblies in Wireless Communication Systems
- Short Antenna Feeder runs
- Mobile Antennas

- WLL
- GPS
- LMR
- GPS

- LMR
- WLAN
- WISP
- WiMax

- SCADA