

LOW LOSS COAXIAL CABLE + FOIL & BRAID

Flexible Low Loss Coax Ideal for...

- Jumper Assemblies in Wireless Communications Systems
- Short Antenna Feeder runs
- Any application (e.g. WLL, GPS, LMR, Mobile Antennas) requiring an easily routed, low loss RF cable
- Cable Group G30






Calculate Attenuation = $(0.242080) \times \sqrt{\text{MHz}} + (0.000330) \times \text{MHz}$ (Cable Performance Calculators: online pc: www.timesmicrowave.com/calculator/ smart device: www.timesmicrowave.com/mobile/)

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

Attenuation at 20°C / 68°F												
@ MHz	30	50	150	220	450	900	1500	1800	2000	2500	5800	8000
dB/100m	4,4	5,7	9,9	12	17,3	24,8	32,4	35,6	37,7	42,4	66,8	79,7
dB/100ft	1,3	1,7	3,0	3,7	5,3	7,6	9,9	10,9	11,5	12,9	20,4	24,3
kW	1,49	1,15	0,66	0,54	0,38	0,26	0,20	0,18	0,17	0,15	0,10	0,08

CONSTRUCTION	METRIC	IMPERIAL	MATERIAL		
Jacket	Ø 6,10 mm	Ø 0 15/64"	LMR-240	Outdoor	PE Black
			LMR-240-DB	Outdoor/Watertight	PE Black
			LMR-240-FR	Indoor/Outdoor Riser	CMR FRPE Black
			LMR-240-FR-PVC	Indoor/Outdoor Riser	CMR FRPVC Black
			LMR-240-MA	Mobile Antennas	PVC Black
			LMR-240-PVC	General Purpose	PVC Black
			LMR-240-PVC-W	General Purpose	PVC White
Overall Braid	Ø 4,52 mm	Ø 0 11/64"	Tinned Copper		
Outer Conductor	Ø 3,94 mm	Ø 0 /32"	Aluminium Tape		
Dielectric	Ø 3,81 mm	Ø 0 5/32"	Foam PE		
Inner Conductor	Ø 1,42 mm	Ø 0 1/16"	Solid BC		

ELECTRICAL DATA			MECHANICAL DATA		
Time Delay	3,97 nS/m	1,21 nS/ft	Bend Radius: Single	19,1 mm	0 3/4"
Capacitance	79,4 pF/m	24,2 pF/ft	Bend Radius: Repeated	63,5 mm	2 1/2"
Inductance	0,20 µH/m	0,060 µH/ft	Bending Moment	0,339 N·m	0,25 ft·lbf
Impedance	50 Ohm (Ω)		Weight	50 g/m	0,54 oz/ft
Velocity of Propagation	83%		Tensile Strength	36,3 kg	80 lb
Dielectric Constant	1,42		Flat Plate Crush	0,36 kg/mm	20 lb/in
Shielding Effectiveness	> 90 dB		ENVIRONMENTAL DATA		
DC Resistance Inner ...	10,5 Ω/km	3,2 Ω/1000ft	Operating Temp.	-40/+85°C	-40/+185°F
... Outer Conductor	12,8 Ω/km	3,89 Ω/1000ft	Standards	MIL-C-17 (current issue)	
Voltage Withstand	1 500 V DC		  		
Jacket Spark	8 000 V RMS				
Peak Power	5,6 kW				