

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, WLAN, WISP, WiMax, SCADA, Mobile Antennas) requiring an easily routed, low loss RF cable
- Cable Group G7 (RG-316/RG-174)






Calculate Attenuation = $(0.709140) \times \sqrt{\text{FMHz}} + (0.001740) \times \text{FMHz}$ (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 | 12,9 | 16,7 | 29,4 | 35,8 | 51,9 | 74,9 | 98,7 | 109,0 | 115,5 | 130,6 | 210,3 | 253,8 |
| dB/100ft | 3,9 | 5,1 | 8,9 | 10,9 | 15,8 | 22,8 | 30,1 | 33,2 | 35,2 | 39,8 | 64,1 | 77,3 |
| kW | 0,230 | 0,180 | 0,100 | 0,083 | 0,057 | 0,039 | 0,029 | 0,027 | 0,025 | 0,022 | 0,013 | 0,010 |

| CONSTRUCTION | METRIC | IMPERIAL | MATERIAL | | |
|-----------------|-----------|-----------|----------------|-------------------|------------|
| Jacket | Ø 2,79 mm | Ø 0 7/64" | LMR-100A-FR | Indoor/Outdoor FR | FRPE Black |
| | | | LMR-100A-PVC | General Purpose | PVC Black |
| | | | LMR-100A-PVC-W | General Purpose | PVC White |
| | | | LMR-100A-UF | Indoor | TPE Black |
| | | | LMR-100A-PUR | Indoor | PUR Black |
| Overall Braid | Ø 2,11 mm | Ø 0 5/64" | Tinned Copper | | |
| Outer Conductor | Ø 1,65 mm | Ø 0 1/16" | Aluminium Tape | | |
| Dielectric | Ø 1,55 mm | Ø 0 1/16" | Solid PE | | |
| Inner Conductor | Ø 0,49 mm | Ø 0 1/64" | Solid BCCS | | |

| ELECTRICAL DATA | | | MECHANICAL DATA | | |
|-------------------------|-------------|---------------|--|--------------------------|------------|
| Time Delay | 5,05 nS/m | 1,54 nS/ft | Bend Radius: Single | 6,4 mm | 0 1/4" |
| Capacitance | 101,1 pF/m | 30,8 pF/ft | Bend Radius: Repeated | 25,4 mm | 1" |
| Inductance | 0,25 µH/m | 0,077 µH/ft | Bending Moment | 0,136 N·m | 0,1 ft·lbf |
| Impedance | 50 Ohm (Ω) | | Weight | 22,3 g/m | 0,24 oz/ft |
| Velocity of Propagation | 66% | | Tensile Strength | 6,8 kg | 15 lb |
| Dielectric Constant | 2,30 | | Flat Plate Crush | 0,18 kg/mm | 10 lb/in |
| Shielding Effectiveness | > 90 dB | | ENVIRONMENTAL DATA | | |
| DC Resistance Inner ... | 266 Ω/km | 81,0 Ω/1000ft | Operating Temp. | -40/+85°C | -40/+185°F |
| ... Outer Conductor | 31,2 Ω/km | 9,5 Ω/1000ft | Standards | MIL-C-17 (current issue) | |
| Voltage Withstand | 500 V DC | |    | | |
| Jacket Spark | 2 000 V RMS | | | | |
| Peak Power | 0,6 kW | | | | |