

Flexible Low Loss RF Cables - 50 Ohms

Specifications:

- Impedance: 50 ohms
- Foamed Polyethylene
- 100% Bonded Aluminum Foil
- Tinned Copper Braid - CuSn
- Flame-retardant UV rated PVC
- UV Rated Polyethylene Jacket



| Equivalent to Cable Type | | LMR100A | LMR195 | LMR240 | LMR400 | LMR600 |
|---|--------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Centre Conductor | Ø mm | 0.46 Solid BCCS | 0.94 Solid BC | 1.42 Solid BC | 2.74 Solid CCA | 4.47 Solid CCA |
| Insulation | Ø mm | 1.52 | 2.8 | 3.81 | 7.24 | 11.56 |
| 1st Shielding | Type | Bonded Aluminum Foil | Bonded Aluminum Foil | Bonded Aluminum Foil | Bonded Aluminum Foil | Bonded Aluminum Foil |
| 1st Outer Conductor | Ø mm | 0.10 x 80 CuSn | 0.11 x 112 CuSn | 0.12 x 144 CuSn | 0.15 x 192 CuSn | 0.18 x 240 CuSn |
| Outer Jacket → | Type | outdoor UV rated PVC | outdoor UV rated PVC | outdoor UV rated PVC | outdoor UV rated PE | outdoor UV rated PE |
| | Ø mm | 2.79 | 4.95 | 6.1 | 10.29 | 14.99 |
| Min. Bending Radius | Ø mm | 6.4 | 12.7 | 19.1 | 25.4 | 38.1 |
| Tensile Strength | kg | 6.8 | 18.2 | 36.3 | 72.5 | 158.9 |
| Attenuation (20 °C, dB/100 ft) | f = 30 MHz | 3.93 | 1.98 | 1.34 | 0.87 | 0.43 |
| | f = 50 MHz | 5.09 | 2.56 | 1.74 | 0.88 | 0.55 |
| | f = 100 MHz | 7.25 | 3.86 | 2.50 | 1.31 | 0.85 |
| | f = 150 MHz | 8.98 | 4.45 | 3.02 | 1.52 | 0.98 |
| | f = 220 MHz | 10.91 | 5.39 | 3.66 | 1.86 | 1.19 |
| | f = 450 MHz | 15.82 | 7.77 | 5.27 | 2.71 | 1.71 |
| | f = 900 MHz | 22.83 | 11.12 | 7.56 | 3.90 | 2.50 |
| | f = 1500 MHz | 30.08 | 14.54 | 9.88 | 5.12 | 3.32 |
| | f = 1800 MHz | 33.22 | 16.00 | 10.85 | 5.67 | 3.69 |
| | f = 2000 MHz | 35.20 | 16.89 | 11.49 | 5.97 | 3.90 |
| | f = 2500 MHz | 39.80 | 19.02 | 12.92 | 6.77 | 4.42 |
| f = 3000 MHz | 43.83 | 21.00 | 14.36 | 7.62 | 5.08 | |
| DC Resistance (Centre Conductor) | Ω /km | 266 | 24.94 | 10 | 3.07 | 1.74 |
| DC Resistance (Outer Conductor) | Ω /km | 31.2 | 16 | 12.76 | 6.88 | 3.94 |
| Insulation Resistance | Ω /km | 5000 | 5000 | 5000 | 5000 | 5000 |
| Dielectric Strength | Kv | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| Velocity ratio | % | 66% | 80% | 85% | 87% | 87% |
| Peak Power Rating | Kw | 0.60 | 2.5 | 5.60 | 16 | 40 |
| Cut Off Frequency | GHz | 90 | 41 | 31 | 16.2 | 10.3 |
| Voltage Withstand | VDC | 500 | 1000 | 1500 | 2500 | 4000 |
| Capacitance | | 101.1pF +/- 3 per M | 79.7pF +/- 3 per M | 79.4pF +/- 3 per M | 78.4pF +/- 3 per M | 76.8pF +/- 3 per M |
| Screening factor at 1 - 1000MHz | | > 90dB | > 90dB | > 90dB | > 90dB | > 90dB |
| Admissible ambient temperature | °C | -40°C to 80°C | -40°C to 80°C | -40°C to 80°C | -40°C to 80°C | -40°C to 80°C |