

### Attenuation ( dB per 100 feet ; +25C )

|                  | 2 1/4" LDF | 1 5/8" LDF | 1 1/4" LDF | LMR-1700 | 7/8" LDF | LMR-1200 | LMR-900 | 1/2" LDF | LMR-600 | LMR-500 | 1/2" SuperFlex | 3/8" LDF | LMR-400 | 3/8" SuperFlex | Belden 9913 | ULTRA-LINK™ | RG213/RG214 | 1/4" SuperFlex | LMR-300 | LMR-240 | Belden RG8X | LMR-200 | ULTRA-LINK | LMR-195 | RG-58  | LMR-100A |
|------------------|------------|------------|------------|----------|----------|----------|---------|----------|---------|---------|----------------|----------|---------|----------------|-------------|-------------|-------------|----------------|---------|---------|-------------|---------|------------|---------|--------|----------|
| Frequency / Size | 2.350"     | 1.980"     | 1.550"     | 1.670"   | 1.090"   | 1.200"   | 0.870"  | 0.630"   | 0.590"  | 0.500"  | 0.520"         | 0.440"   | 0.405"  | 0.415"         | 0.405"      | 0.405"      | 0.405"      | 0.300"         | 0.300"  | 0.240"  | 0.242"      | 0.195"  | 0.195"     | 0.195"  | 0.195" | 0.110"   |
| 30 MHz           | 0.096*     | 0.120      | 0.147      | 0.149    | 0.197    | 0.209    | 0.288   | 0.369    | 0.421   | 0.54    | 0.561          | 0.567    | 0.7     | 0.654          | 0.8         | 0.7         | 1.2         | 0.98           | 1.1     | 1.3     | 2.0         | 1.8     | 2.5        | 2.0     | 2.5    | 3.9      |
| 50 MHz           | 0.125*     | 0.156      | 0.191      | 0.195    | 0.257    | 0.272    | 0.374   | 0.479    | 0.547   | 0.70    | 0.730          | 0.736    | 0.9     | 0.848          | 0.9         | --          | 1.6         | 1.27           | 1.4     | 1.7     | 2.5         | 2.3     | --         | 2.6     | 3.1    | 5.1      |
| 150 MHz          | 0.227*     | 0.280      | 0.340      | 0.347    | 0.458    | 0.481    | 0.658   | 0.845    | 0.964   | 1.22    | 1.29           | 1.30     | 1.5     | 1.49           | 1.6         | 1.5         | 2.8         | 2.23           | 2.4     | 3.0     | 4.7         | 4.0     | 5.1        | 4.4     | 6.2    | 8.9      |
| 220 MHz          | 0.281*     | 0.345*     | 0.416*     | 0.427    | 0.560*   | 0.589    | 0.803   | 1.05*    | 1.18    | 1.49    | 1.58*          | 1.59*    | 1.8     | 1.82*          | --          | --          | 3.5         | 2.72           | 2.9     | 3.7     | 6.0         | 4.8     | --         | 5.4     | 7.4    | 10.9     |
| 450 MHz          | 0.422      | 0.515      | 0.617      | 0.632    | 0.834    | 0.864    | 1.17    | 1.51     | 1.72    | 2.17    | 2.32           | 2.30     | 2.7     | 2.66           | 2.8         | 2.7         | 5.2         | 3.93           | 4.2     | 5.3     | 8.6         | 7.0     | 9.5        | 7.8     | 10.6   | 15.8     |
| 700 MHz          | --         | --         | --         | 0.609    | --       | 1.10     | 1.48    | --       | 2.18    | 2.77    | --             | --       | 3.42    | --             | --          | --          | --          | --             | 5.1     | 6.6     | --          | 8.7     | --         | 9.8     | --     | 20.0     |
| 900 MHz          | 0.641*     | 0.767*     | 0.912*     | 0.936    | 1.23*    | 1.27     | 1.70    | 2.21*    | 2.50    | 3.13    | 3.41*          | 3.36*    | 3.9     | 3.86*          | 4.2         | 4.19        | 8.0         | 5.67*          | 6.1     | 7.6     | 12.8        | 9.9     | 14.0       | 11.1    | 16.5   | 22.8     |
| 1,500 MHz        | 0.879*     | 1.050      | 1.22       | 1.26     | 1.66     | 1.69     | 2.24    | 2.93     | 3.31    | 4.13    | 4.57           | 4.43     | 5.1     | 5.12           | 5.6         | --          | --          | 7.47           | 7.9     | 9.9     | --          | 12.9    | --         | 14.5    | --     | 30.0     |
| 2,000 MHz        | 1.058*     | 1.250      | 1.45       | 1.50     | 1.97     | 1.99     | 2.63    | 3.45     | 3.90    | 4.84    | 5.41           | 5.21     | 6.0     | 6.01           | 6.7         | --          | --          | 8.73           | 9.2     | 11.5    | --          | 15.0    | --         | 16.9    | --     | 35.0     |
| 2,500 MHz        | --         | 1.440      | 1.68*      | 1.71     | 2.27*    | 2.26     | 2.98    | 3.91*    | 4.42    | 5.48    | 6.17*          | 5.91*    | 6.8     | 6.84*          | --          | 6.8*        | --          | 9.85*          | 10.4    | 12.9    | --          | 16.9    | 37*        | 19.0    | --     | 40.0     |

Attenuation at Any Frequency = [ k1 x SqRt (Fmhz) ] + [ k2 x Fmhz ] or use Performance Calculator at [www.timesmicrowave.com](http://www.timesmicrowave.com)

|    |  |  |  |         |  |         |         |  |         |         |  |  |         |  |  |  |  |  |         |         |  |         |  |         |  |         |
|----|--|--|--|---------|--|---------|---------|--|---------|---------|--|--|---------|--|--|--|--|--|---------|---------|--|---------|--|---------|--|---------|
| k1 |  |  |  | 0.02646 |  | 0.03737 | 0.05177 |  | 0.07555 | 0.09659 |  |  | 0.12229 |  |  |  |  |  | 0.19193 | 0.24208 |  | 0.32090 |  | 0.35686 |  | 0.70914 |
| k2 |  |  |  | 0.00016 |  | 0.00016 | 0.00016 |  | 0.00026 | 0.00026 |  |  | 0.00026 |  |  |  |  |  | 0.00033 | 0.00033 |  | 0.00033 |  | 0.00047 |  | 0.00174 |

### Power Handling ( kW ; +40C ; Sea Level )

|                  | 2 1/4" LDF | 1 5/8" LDF | 1 1/4" LDF | LMR-1700 | 7/8" LDF | LMR-1200 | LMR-900 | 1/2" LDF | LMR-600 | LMR-500 | 1/2" SuperFlex | 3/8" LDF | LMR-400 | 3/8" SuperFlex | Belden 9913 | ULTRA-LINK | RG213/RG214 | 1/4" SuperFlex | LMR-300 | LMR-240 | Belden RG8X | LMR-200 | ULTRA-LINK | LMR-195 | RG-58  | LMR-100A |
|------------------|------------|------------|------------|----------|----------|----------|---------|----------|---------|---------|----------------|----------|---------|----------------|-------------|------------|-------------|----------------|---------|---------|-------------|---------|------------|---------|--------|----------|
| Frequency / Size | 2.350"     | 1.980"     | 1.550"     | 1.670"   | 1.090"   | 1.200"   | 0.870"  | 0.630"   | 0.590"  | 0.500"  | 0.520"         | 0.440"   | 0.405"  | 0.415"         | 0.405"      | 0.405"     | 0.405"      | 0.300"         | 0.300"  | 0.240"  | 0.242"      | 0.195"  | 0.195"     | 0.195"  | 0.195" | 0.110"   |
| 30 MHz           | 39.5*      | 28.9       | 21.1       | 20.3     | 14.0     | 12.6     | 8.9     | 6.31     | 5.5     | 4.4     | 5.75           | 4.14     | 3.3     | 3.97           | 2.2         | --         | 1.8         | 2.28           | 2.1     | 1.49    | 0.35        | 1.02    | 4.0        | 0.89    | 0.40   | 0.23     |
| 50 MHz           | 30.2*      | 22.1       | 16.2       | 15.6     | 10.7     | 9.7      | 6.8     | 4.85     | 4.3     | 3.4     | 4.42           | 3.19     | 2.6     | 3.06           | 1.7         | --         | 1.2         | 1.76           | 1.6     | 1.15    | 0.28        | 0.79    | --         | 0.68    | 0.30   | 0.18     |
| 150 MHz          | 16.7*      | 12.3       | 9.09       | 8.7      | 6.04     | 5.5      | 3.9     | 2.75     | 2.4     | 1.9     | 2.49           | 1.81     | 1.5     | 1.74           | 0.90        | --         | 0.62        | 1.00           | 0.93    | 0.66    | 0.15        | 0.45    | 2.0        | 0.39    | 0.16   | 0.10     |
| 220 MHz          | 13.5*      | 13.5*      | 7.45*      | 7.1      | 4.94*    | 4.5      | 3.2     | 2.23*    | 1.9     | 1.6     | 2.04*          | 1.49*    | 1.2     | 1.44*          | --          | --         | --          | 0.825*         | 0.76    | 0.54    | --          | 0.37    | --         | 0.32    | --     | 0.08     |
| 450 MHz          | 8.91       | 6.71       | 5.01       | 4.8      | 3.32     | 3.1      | 2.2     | 1.53     | 1.3     | 1.1     | 1.38           | 1.02     | 0.83    | 0.975          | 0.45        | --         | 0.30        | 0.567          | 0.52    | 0.38    | 0.08        | 0.26    | 1.0        | 0.22    | 0.08   | 0.06     |
| 700 MHz          | --         | --         | --         | 3.8      | --       | 2.4      | 1.7     | --       | 1.1     | 0.85    | --             | --       | 0.66    | --             | --          | --         | --          | --             | 0.43    | 0.30    | --          | 0.21    | --         | 0.18    | --     | 0.05     |
| 900 MHz          | 5.90*      | 4.49*      | 3.39*      | 3.3      | 2.24     | 2.1      | 1.5     | 1.05*    | 0.93    | 0.75    | 0.944*         | 0.703*   | 0.58    | 0.674*         | 0.28        | --         | 0.18        | 0.393*         | 0.36    | 0.26    | 0.05        | 0.18    | 0.65       | 0.15    | 0.05   | 0.040    |
| 1,500 MHz        | 4.29*      | 3.30       | 2.52       | 2.4      | 1.66     | 1.6      | 1.1     | 0.793    | 0.70    | 0.57    | 0.705          | 0.530    | 0.44    | 0.507          | 0.20        | --         | --          | 0.299          | 0.28    | 0.20    | --          | 0.14    | --         | 0.12    | --     | 0.030    |
| 2,000 MHz        | 3.57*      | 2.76       | 2.13       | 2.0      | 1.40     | 1.3      | 1.0     | 0.673    | 0.59    | 0.49    | 0.597          | 0.451    | 0.37    | 0.431          | 0.16        | --         | --          | 0.255          | 0.24    | 0.17    | --          | 0.12    | --         | 0.10    | --     | 0.025    |
| 2,500 MHz        | --         | 2.40       | 1.84*      | 1.8      | 1.21*    | 1.2      | 0.9     | 0.594*   | 0.52    | 0.43    | 0.547*         | 0.398*   | 0.33    | 0.379*         | --          | --         | --          | 0.225*         | 0.21    | 0.15    | --          | 0.11    | --         | 0.09    | --     | 0.020    |

### General Performance Properties

|                                  | LMR-1700        | LMR-1200 | LMR-900 | LMR-600 | LMR-500 | LMR-400 | LMR-300 | LMR-240 | LMR-200 | LMR-195 | LMR-100A |
|----------------------------------|-----------------|----------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| Conductor: (note 1)              | 0.527*          | 0.349*   | 0.262*  | 0.176*  | 0.142*  | 0.108*  | 0.070*  | 0.056*  | 0.044*  | 0.037*  | 0.018*   |
| Dielectric: Cellular PE (note 2) | 1.350*          | 0.920*   | 0.680*  | 0.455*  | 0.370*  | 0.285*  | 0.190*  | 0.150*  | 0.116*  | 0.110*  | 0.060*   |
| Shield: Aluminum Tape (note 3)   | 1.356*          | 0.926*   | 0.686*  | 0.461*  | 0.376*  | 0.291*  | 0.196*  | 0.155*  | 0.121*  | 0.116*  | 0.065*   |
| Tinned Copper Braid              | 1.402*          | 0.972*   | 0.732*  | 0.490*  | 0.405*  | 0.320*  | 0.225*  | 0.178*  | 0.144*  | 0.139*  | 0.083*   |
| Jacket: Black PE (note 4)        | 1.670*          | 1.200*   | 0.870*  | 0.590*  | 0.500*  | 0.405*  | 0.300*  | 0.240*  | 0.195*  | 0.195*  | 0.110*   |
| Bend Radius (note 5)             | 13.5"           | 6.5"     | 3"      | 1.5"    | 1.25"   | 1"      | 0.75"   | 0.75"   | 0.50"   | 0.50"   | 0.25"    |
| Weight(lbs/foot)                 | 0.736           | 0.448    | 0.266   | 0.131   | 0.097   | 0.068   | 0.055   | 0.034   | 0.022   | 0.021   | 0.009    |
| Temperature Range                | -40°C to +85°C  |          |         |         |         |         |         |         |         |         |          |
| Impedance                        | 50 Ohms         |          |         |         |         |         |         |         |         |         |          |
| Velocity (%)                     | 89              | 88       | 87      | 87      | 86      | 85      | 85      | 84      | 83      | 80      | 66       |
| Capacitance (pF per Foot)        | 22.8            | 23.1     | 23.4    | 23.4    | 23.6    | 23.9    | 23.9    | 24.2    | 24.5    | 25.4    | 30.8     |
| DC Resistance: center conductor  | 0.21            | 0.32     | 0.54    | 0.53    | 0.82    | 1.39    | 2.12    | 3.20    | 5.36    | 7.58    | 81.0     |
| (ohms/1000') : shield            | 0.27            | 0.37     | 0.55    | 1.20    | 1.27    | 1.65    | 2.21    | 3.89    | 4.90    | 4.90    | 9.5      |
| Shielding                        | > 90 db         |          |         |         |         |         |         |         |         |         |          |
| Phase Stability                  | +/- 10 ppm/degC |          |         |         |         |         |         |         |         |         |          |

- NOTES:**
- (1) Center Conductor in LMR-900, LMR-1200 & LMR-1700 is Copper Tube  
Center Conductor in LMR-400, LMR-500 & LMR-600 is Copper Clad Aluminum  
Center Conductor in LMR-195, LMR-200, LMR-240 and LMR-300 is Bare Copper  
LMR-100A is BCCS
  - (2) Low loss closed cell polyethylene foam (LMR-100A solid polyethylene)
  - (3) Aluminum laminated tape bonded (LMR-100A unbonded) to the Dielectric with a Tinned Copper Overbraid
  - (4) Black UV protected polyethylene (LMR-100A black PVC)
  - (5) Less than 1 ohm impedance change at bend

Markings are the exclusive property of their respective owners.  
Competitor's Data As Published  
\*estimated from published data.