



8 3/16" 75 Ohm Rigid Coaxial Transmission Line, FM Ratings and Efficiency in Percent

| Freq. MHz | ATTEN. in dB/100 ft | Average Power (Kilowatts) | 250 ft | 500 ft | 750 ft | 1000 ft | 1250 ft | 1500 ft | 1750 ft | 2000 ft |
|-----------|---------------------|---------------------------|--------|--------|--------|---------|---------|---------|---------|---------|
| 88.1 | 0.03082 | 283.472 | 98.24 | 96.51 | 94.82 | 93.15 | 91.51 | 89.90 | 88.32 | 86.77 |
| 88.3 | 0.03085 | 283.150 | 98.24 | 96.51 | 94.81 | 93.14 | 91.50 | 89.89 | 88.31 | 86.75 |
| 88.5 | 0.03089 | 282.830 | 98.24 | 96.51 | 94.81 | 93.13 | 91.49 | 89.88 | 88.30 | 86.74 |
| 88.7 | 0.03092 | 282.511 | 98.24 | 96.50 | 94.80 | 93.13 | 91.48 | 89.87 | 88.28 | 86.73 |
| 88.9 | 0.03096 | 282.193 | 98.23 | 96.50 | 94.79 | 93.12 | 91.47 | 89.86 | 88.27 | 86.71 |
| 89.1 | 0.03099 | 281.876 | 98.23 | 96.49 | 94.79 | 93.11 | 91.47 | 89.85 | 88.26 | 86.70 |
| 89.3 | 0.03103 | 281.561 | 98.23 | 96.49 | 94.78 | 93.10 | 91.46 | 89.84 | 88.25 | 86.69 |
| 89.5 | 0.03106 | 281.246 | 98.23 | 96.49 | 94.78 | 93.10 | 91.45 | 89.83 | 88.23 | 86.67 |
| 89.7 | 0.03110 | 280.932 | 98.23 | 96.48 | 94.77 | 93.09 | 91.44 | 89.82 | 88.22 | 86.66 |
| 89.9 | 0.03113 | 280.619 | 98.22 | 96.48 | 94.77 | 93.08 | 91.43 | 89.81 | 88.21 | 86.64 |
| 90.1 | 0.03117 | 280.308 | 98.22 | 96.48 | 94.76 | 93.08 | 91.42 | 89.79 | 88.20 | 86.63 |
| 90.3 | 0.03120 | 279.997 | 98.22 | 96.47 | 94.75 | 93.07 | 91.41 | 89.78 | 88.19 | 86.62 |
| 90.5 | 0.03124 | 279.688 | 98.22 | 96.47 | 94.75 | 93.06 | 91.40 | 89.77 | 88.17 | 86.60 |
| 90.7 | 0.03127 | 279.379 | 98.22 | 96.46 | 94.74 | 93.05 | 91.39 | 89.76 | 88.16 | 86.59 |
| 90.9 | 0.03130 | 279.072 | 98.21 | 96.46 | 94.74 | 93.05 | 91.38 | 89.75 | 88.15 | 86.57 |
| 91.1 | 0.03134 | 278.765 | 98.21 | 96.46 | 94.73 | 93.04 | 91.37 | 89.74 | 88.14 | 86.56 |
| 91.3 | 0.03137 | 278.460 | 98.21 | 96.45 | 94.73 | 93.03 | 91.37 | 89.73 | 88.12 | 86.55 |
| 91.5 | 0.03141 | 278.155 | 98.21 | 96.45 | 94.72 | 93.02 | 91.36 | 89.72 | 88.11 | 86.53 |
| 91.7 | 0.03144 | 277.852 | 98.21 | 96.44 | 94.71 | 93.02 | 91.35 | 89.71 | 88.10 | 86.52 |
| 91.9 | 0.03148 | 277.549 | 98.20 | 96.44 | 94.71 | 93.01 | 91.34 | 89.70 | 88.09 | 86.51 |
| 92.1 | 0.03151 | 277.248 | 98.20 | 96.44 | 94.70 | 93.00 | 91.33 | 89.69 | 88.08 | 86.49 |
| 92.3 | 0.03154 | 276.947 | 98.20 | 96.43 | 94.70 | 92.99 | 91.32 | 89.68 | 88.06 | 86.48 |
| 92.5 | 0.03158 | 276.647 | 98.20 | 96.43 | 94.69 | 92.99 | 91.31 | 89.67 | 88.05 | 86.47 |
| 92.7 | 0.03161 | 276.349 | 98.20 | 96.43 | 94.69 | 92.98 | 91.30 | 89.66 | 88.04 | 86.45 |
| 92.9 | 0.03165 | 276.051 | 98.19 | 96.42 | 94.68 | 92.97 | 91.29 | 89.65 | 88.03 | 86.44 |
| 93.1 | 0.03168 | 275.755 | 98.19 | 96.42 | 94.68 | 92.96 | 91.28 | 89.64 | 88.02 | 86.42 |
| 93.3 | 0.03172 | 275.459 | 98.19 | 96.41 | 94.67 | 92.96 | 91.28 | 89.62 | 88.00 | 86.41 |
| 93.5 | 0.03175 | 275.164 | 98.19 | 96.41 | 94.66 | 92.95 | 91.27 | 89.61 | 87.99 | 86.40 |
| 93.7 | 0.03178 | 274.870 | 98.19 | 96.41 | 94.66 | 92.94 | 91.26 | 89.60 | 87.98 | 86.38 |
| 93.9 | 0.03182 | 274.577 | 98.19 | 96.40 | 94.65 | 92.94 | 91.25 | 89.59 | 87.97 | 86.37 |
| 94.1 | 0.03185 | 274.285 | 98.18 | 96.40 | 94.65 | 92.93 | 91.24 | 89.58 | 87.96 | 86.36 |
| 94.3 | 0.03188 | 273.994 | 98.18 | 96.40 | 94.64 | 92.92 | 91.23 | 89.57 | 87.94 | 86.34 |
| 94.5 | 0.03192 | 273.704 | 98.18 | 96.39 | 94.64 | 92.91 | 91.22 | 89.56 | 87.93 | 86.33 |
| 94.7 | 0.03195 | 273.415 | 98.18 | 96.39 | 94.63 | 92.91 | 91.21 | 89.55 | 87.92 | 86.32 |
| 94.9 | 0.03199 | 273.127 | 98.18 | 96.38 | 94.63 | 92.90 | 91.20 | 89.54 | 87.91 | 86.30 |
| 95.1 | 0.03202 | 272.840 | 98.17 | 96.38 | 94.62 | 92.89 | 91.20 | 89.53 | 87.90 | 86.29 |
| 95.3 | 0.03205 | 272.553 | 98.17 | 96.38 | 94.61 | 92.89 | 91.19 | 89.52 | 87.88 | 86.28 |
| 95.5 | 0.03209 | 272.268 | 98.17 | 96.37 | 94.61 | 92.88 | 91.18 | 89.51 | 87.87 | 86.26 |
| 95.7 | 0.03212 | 271.983 | 98.17 | 96.37 | 94.60 | 92.87 | 91.17 | 89.50 | 87.86 | 86.25 |
| 95.9 | 0.03215 | 271.699 | 98.17 | 96.37 | 94.60 | 92.86 | 91.16 | 89.49 | 87.85 | 86.24 |
| 96.1 | 0.03219 | 271.416 | 98.16 | 96.36 | 94.59 | 92.86 | 91.15 | 89.48 | 87.84 | 86.22 |
| 96.3 | 0.03222 | 271.134 | 98.16 | 96.36 | 94.59 | 92.85 | 91.14 | 89.47 | 87.82 | 86.21 |
| 96.5 | 0.03225 | 270.853 | 98.16 | 96.35 | 94.58 | 92.84 | 91.13 | 89.46 | 87.81 | 86.20 |
| 96.7 | 0.03229 | 270.573 | 98.16 | 96.35 | 94.58 | 92.84 | 91.13 | 89.45 | 87.80 | 86.18 |
| 96.9 | 0.03232 | 270.294 | 98.16 | 96.35 | 94.57 | 92.83 | 91.12 | 89.44 | 87.79 | 86.17 |
| 97.1 | 0.03235 | 270.015 | 98.15 | 96.34 | 94.57 | 92.82 | 91.11 | 89.43 | 87.78 | 86.16 |
| 97.3 | 0.03239 | 269.737 | 98.15 | 96.34 | 94.56 | 92.81 | 91.10 | 89.42 | 87.76 | 86.14 |
| 97.5 | 0.03242 | 269.461 | 98.15 | 96.34 | 94.55 | 92.81 | 91.09 | 89.41 | 87.75 | 86.13 |
| 97.7 | 0.03245 | 269.185 | 98.15 | 96.33 | 94.55 | 92.80 | 91.08 | 89.40 | 87.74 | 86.12 |
| 97.9 | 0.03249 | 268.910 | 98.15 | 96.33 | 94.54 | 92.79 | 91.07 | 89.39 | 87.73 | 86.10 |

Standard Conditions:

Attenuation: Ambient Temperature 20°C (68°F), Dry Air, Sea Level Atmospheric Pressure, VSWR 1.0, 0KW

Average Power: Ambient Temperature 40°C (104°F), Inner Conductor Temperature 100°C (212°F), Dry Air, Sea Level Atmospheric Pressure, VSWR 1.0



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8 3/16" 75 Ohm Rigid Coaxial Transmission Line, FM Ratings and Efficiency in Percent

| Freq. MHz | ATTEN. in dB/100 ft | Average Power (Kilowatts) | 250 ft | 500 ft | 750 ft | 1000 ft | 1250 ft | 1500 ft | 1750 ft | 2000 ft |
|-----------|---------------------|---------------------------|--------|--------|--------|---------|---------|---------|---------|---------|
| 98.1 | 0.03252 | 268.635 | 98.15 | 96.33 | 94.54 | 92.79 | 91.06 | 89.38 | 87.72 | 86.09 |
| 98.3 | 0.03255 | 268.362 | 98.14 | 96.32 | 94.53 | 92.78 | 91.06 | 89.37 | 87.71 | 86.08 |
| 98.5 | 0.03259 | 268.089 | 98.14 | 96.32 | 94.53 | 92.77 | 91.05 | 89.36 | 87.69 | 86.06 |
| 98.7 | 0.03262 | 267.817 | 98.14 | 96.31 | 94.52 | 92.76 | 91.04 | 89.34 | 87.68 | 86.05 |
| 98.9 | 0.03265 | 267.547 | 98.14 | 96.31 | 94.52 | 92.76 | 91.03 | 89.33 | 87.67 | 86.04 |
| 99.1 | 0.03269 | 267.276 | 98.14 | 96.31 | 94.51 | 92.75 | 91.02 | 89.32 | 87.66 | 86.03 |
| 99.3 | 0.03272 | 267.007 | 98.13 | 96.30 | 94.51 | 92.74 | 91.01 | 89.31 | 87.65 | 86.01 |
| 99.5 | 0.03275 | 266.739 | 98.13 | 96.30 | 94.50 | 92.74 | 91.00 | 89.30 | 87.64 | 86.00 |
| 99.7 | 0.03279 | 266.471 | 98.13 | 96.30 | 94.50 | 92.73 | 91.00 | 89.29 | 87.62 | 85.99 |
| 99.9 | 0.03282 | 266.204 | 98.13 | 96.29 | 94.49 | 92.72 | 90.99 | 89.28 | 87.61 | 85.97 |
| 100.1 | 0.03285 | 265.938 | 98.13 | 96.29 | 94.48 | 92.71 | 90.98 | 89.27 | 87.60 | 85.96 |
| 100.3 | 0.03288 | 265.673 | 98.12 | 96.28 | 94.48 | 92.71 | 90.97 | 89.26 | 87.59 | 85.95 |
| 100.5 | 0.03292 | 265.408 | 98.12 | 96.28 | 94.47 | 92.70 | 90.96 | 89.25 | 87.58 | 85.93 |
| 100.7 | 0.03295 | 265.145 | 98.12 | 96.28 | 94.47 | 92.69 | 90.95 | 89.24 | 87.57 | 85.92 |
| 100.9 | 0.03298 | 264.882 | 98.12 | 96.27 | 94.46 | 92.69 | 90.94 | 89.23 | 87.56 | 85.91 |
| 101.1 | 0.03301 | 264.620 | 98.12 | 96.27 | 94.46 | 92.68 | 90.94 | 89.22 | 87.54 | 85.90 |
| 101.3 | 0.03305 | 264.358 | 98.12 | 96.27 | 94.45 | 92.67 | 90.93 | 89.21 | 87.53 | 85.88 |
| 101.5 | 0.03308 | 264.098 | 98.11 | 96.26 | 94.45 | 92.67 | 90.92 | 89.20 | 87.52 | 85.87 |
| 101.7 | 0.03311 | 263.838 | 98.11 | 96.26 | 94.44 | 92.66 | 90.91 | 89.19 | 87.51 | 85.86 |
| 101.9 | 0.03314 | 263.579 | 98.11 | 96.26 | 94.44 | 92.65 | 90.90 | 89.18 | 87.50 | 85.84 |
| 102.1 | 0.03318 | 263.320 | 98.11 | 96.25 | 94.43 | 92.65 | 90.89 | 89.17 | 87.49 | 85.83 |
| 102.3 | 0.03321 | 263.063 | 98.11 | 96.25 | 94.43 | 92.64 | 90.88 | 89.16 | 87.47 | 85.82 |
| 102.5 | 0.03324 | 262.806 | 98.10 | 96.25 | 94.42 | 92.63 | 90.88 | 89.15 | 87.46 | 85.81 |
| 102.7 | 0.03327 | 262.550 | 98.10 | 96.24 | 94.42 | 92.62 | 90.87 | 89.14 | 87.45 | 85.79 |
| 102.9 | 0.03331 | 262.295 | 98.10 | 96.24 | 94.41 | 92.62 | 90.86 | 89.13 | 87.44 | 85.78 |
| 103.1 | 0.03334 | 262.040 | 98.10 | 96.23 | 94.41 | 92.61 | 90.85 | 89.12 | 87.43 | 85.77 |
| 103.3 | 0.03337 | 261.787 | 98.10 | 96.23 | 94.40 | 92.60 | 90.84 | 89.11 | 87.42 | 85.75 |
| 103.5 | 0.03340 | 261.534 | 98.10 | 96.23 | 94.39 | 92.60 | 90.83 | 89.10 | 87.41 | 85.74 |
| 103.7 | 0.03344 | 261.281 | 98.09 | 96.22 | 94.39 | 92.59 | 90.82 | 89.09 | 87.40 | 85.73 |
| 103.9 | 0.03347 | 261.030 | 98.09 | 96.22 | 94.38 | 92.58 | 90.82 | 89.08 | 87.38 | 85.72 |
| 104.1 | 0.03350 | 260.779 | 98.09 | 96.22 | 94.38 | 92.58 | 90.81 | 89.07 | 87.37 | 85.70 |
| 104.3 | 0.03353 | 260.529 | 98.09 | 96.21 | 94.37 | 92.57 | 90.80 | 89.06 | 87.36 | 85.69 |
| 104.5 | 0.03356 | 260.279 | 98.09 | 96.21 | 94.37 | 92.56 | 90.79 | 89.05 | 87.35 | 85.68 |
| 104.7 | 0.03360 | 260.030 | 98.08 | 96.21 | 94.36 | 92.56 | 90.78 | 89.04 | 87.34 | 85.67 |
| 104.9 | 0.03363 | 259.782 | 98.08 | 96.20 | 94.36 | 92.55 | 90.77 | 89.03 | 87.33 | 85.65 |
| 105.1 | 0.03366 | 259.535 | 98.08 | 96.20 | 94.35 | 92.54 | 90.77 | 89.02 | 87.32 | 85.64 |
| 105.3 | 0.03369 | 259.289 | 98.08 | 96.20 | 94.35 | 92.54 | 90.76 | 89.01 | 87.30 | 85.63 |
| 105.5 | 0.03373 | 259.043 | 98.08 | 96.19 | 94.34 | 92.53 | 90.75 | 89.00 | 87.29 | 85.61 |
| 105.7 | 0.03376 | 258.797 | 98.08 | 96.19 | 94.34 | 92.52 | 90.74 | 88.99 | 87.28 | 85.60 |
| 105.9 | 0.03379 | 258.553 | 98.07 | 96.18 | 94.33 | 92.51 | 90.73 | 88.98 | 87.27 | 85.59 |
| 106.1 | 0.03382 | 258.309 | 98.07 | 96.18 | 94.33 | 92.51 | 90.72 | 88.98 | 87.26 | 85.58 |
| 106.3 | 0.03385 | 258.066 | 98.07 | 96.18 | 94.32 | 92.50 | 90.72 | 88.97 | 87.25 | 85.56 |
| 106.5 | 0.03388 | 257.824 | 98.07 | 96.17 | 94.32 | 92.49 | 90.71 | 88.96 | 87.24 | 85.55 |
| 106.7 | 0.03392 | 257.582 | 98.07 | 96.17 | 94.31 | 92.49 | 90.70 | 88.95 | 87.23 | 85.54 |
| 106.9 | 0.03395 | 257.341 | 98.06 | 96.17 | 94.31 | 92.48 | 90.69 | 88.94 | 87.21 | 85.53 |
| 107.1 | 0.03398 | 257.100 | 98.06 | 96.16 | 94.30 | 92.47 | 90.68 | 88.93 | 87.20 | 85.51 |
| 107.3 | 0.03401 | 256.861 | 98.06 | 96.16 | 94.30 | 92.47 | 90.67 | 88.92 | 87.19 | 85.50 |
| 107.5 | 0.03404 | 256.622 | 98.06 | 96.16 | 94.29 | 92.46 | 90.67 | 88.91 | 87.18 | 85.49 |
| 107.7 | 0.03407 | 256.383 | 98.06 | 96.15 | 94.29 | 92.45 | 90.66 | 88.90 | 87.17 | 85.48 |
| 107.9 | 0.03411 | 256.146 | 98.06 | 96.15 | 94.28 | 92.45 | 90.65 | 88.89 | 87.16 | 85.46 |

Standard Conditions:

Attenuation: Ambient Temperature 20°C (68°F), Dry Air, Sea Level Atmospheric Pressure, VSWR 1.0, 0KW

Average Power: Ambient Temperature 40°C (104°F), Inner Conductor Temperature 100°C (212°F), Dry Air, Sea Level Atmospheric Pressure, VSWR 1.0