



RESIDUAL POWER PERCENTAGE (Cable Run Efficiency)

Given a power fed to the X value (any value expressed in Watts), the actual power output of the cable is shown in the table in the form of remaining percentage. (for example, if we use a cable such as M&P-ULTRAFLEX 13, entering 1000 Watts over a length of 35m, at a frequency of 144 MHz, there remains 74.7 % of 1000). **For maximum applicable power, see the Power Handling of the cable concerned.** From these values, have already been deducted the SRL values, typical of each one of our models, for the respective frequencies. **REMEMBER: Make sure to match the line accurately!**

| | | M&P-ULTRAFLEX 13/.500" | | | | | | | | | | | | | |
|-------------|--------|---|------|------|------|------|-------|------|------|------|-------|-------|-------|-------|--|
| feet | | 16,4 | 32,8 | 49,2 | 65,6 | 82 | 114,8 | 164 | 246 | 328 | 426,5 | 524,9 | 656,2 | 984,2 | |
| meters | | 5 | 10 | 15 | 20 | 25 | 35 | 50 | 75 | 100 | 130 | 160 | 200 | 300 | |
| Wave length | MHZ | Useful signal output (residual power %) | | | | | | | | | | | | | |
| 85.71 m | 3,5 | 99,1 | 98,3 | 97,6 | 96,8 | 96,1 | 94,6 | 92,4 | 88,8 | 85,4 | 81,5 | 77,7 | 73,0 | 62,4 | |
| 42.85 m | 7 | 98,9 | 97,9 | 96,9 | 95,9 | 94,9 | 93,0 | 90,2 | 85,7 | 81,4 | 76,5 | 71,9 | 66,3 | 54,0 | |
| 21.42 m | 14 | 98,6 | 97,3 | 96,0 | 94,7 | 93,5 | 91,0 | 87,5 | 81,9 | 76,6 | 70,8 | 65,4 | 58,8 | 45,1 | |
| 10.71 m | 28 | 98,1 | 96,4 | 94,7 | 93,0 | 91,4 | 88,2 | 83,6 | 76,4 | 69,9 | 62,8 | 56,4 | 48,9 | 34,2 | |
| 6 m | 50 | 97,6 | 95,4 | 93,2 | 91,1 | 89,0 | 85,0 | 79,3 | 70,7 | 63,0 | 54,9 | 47,8 | 39,7 | 25,0 | |
| 2 m | 144 | 95,8 | 91,8 | 88,1 | 84,4 | 80,9 | 74,7 | 65,6 | 53,1 | 43,1 | 33,4 | 26,0 | 18,5 | 7,9 | |
| 69 cm | 430 | 92,7 | 86,0 | 79,9 | 74,1 | 68,8 | 59,3 | 47,4 | 32,7 | 22,5 | 14,3 | 9,1 | 5,0 | | |
| 23.1 cm | 1296 | 86,5 | 75,2 | 65,4 | 56,9 | 49,5 | 37,4 | 24,5 | 12,0 | 5,7 | | | | | |
| 12.5 cm | 2400 | 81,2 | 66,4 | 54,2 | 44,2 | 36,1 | 24,0 | 12,9 | 4,3 | | | | | | |
| 10 cm | 3000 | 78,6 | 62,4 | 49,5 | 39,2 | 31,0 | 19,3 | 9,2 | | | | | | | |
| 7.5 cm | 4000 | 75,2 | 57,1 | 43,3 | 32,7 | 24,7 | 13,9 | 5,6 | | | | | | | |
| 6 cm | 5000 | 72,4 | 52,8 | 38,5 | 28,0 | 20,3 | 10,4 | 3,5 | | | | | | | |
| 5 cm | 6000 | 69,1 | 48,4 | 33,7 | 23,4 | 16,1 | 7,2 | | | | | | | | |
| 3.75 cm | 8000 | 64,6 | 42,2 | 27,4 | 17,6 | 11,1 | 4,0 | | | | | | | | |
| 3 cm | 10.000 | 58,7 | 35,1 | 20,5 | 11,5 | 5,9 | | | | | | | | | |
| 2.5 cm | 12.000 | 54,8 | 30,5 | 16,4 | 8,2 | 3,4 | | | | | | | | | |

M&P-ULTRAFLEX 13 /.500" Power Handling/Temperature (in Continuous Carrier)

| Wave length | MHZ | Temperature C° / F° | | | | | | | | | |
|-------------|--------|---------------------|---------|--------|---------|---------|---------|----------|----------|----------|----------|
| | | -10 / 14 | -5 / 23 | 0 / 32 | 10 / 50 | 20 / 68 | 30 / 86 | 40 / 104 | 50 / 122 | 60 / 140 | 70 / 158 |
| 166.66 m | 1,8 | 18000 | 18000 | 18000 | 1800 | 17278 | 15511 | 13800 | 11771 | 9743 | 7728 |
| 85.71 m | 3,5 | 18000 | 17946 | 17418 | 16314 | 15019 | 13483 | 11996 | 10232 | 8469 | 6718 |
| 42.85 m | 7 | 14479 | 13993 | 13581 | 12721 | 11710 | 10513 | 9353 | 7978 | 6603 | 5238 |
| 30 m | 10 | 12301 | 11888 | 11539 | 10807 | 9949 | 8932 | 7947 | 6778 | 5610 | 4450 |
| 21.42 m | 14 | 10512 | 10159 | 9860 | 9235 | 8502 | 7632 | 6790 | 5792 | 4794 | 3803 |
| 14.28 m | 21 | 8873 | 8574 | 8322 | 7795 | 7176 | 6442 | 5732 | 4889 | 4047 | 3210 |
| 10.71 m | 28 | 7527 | 7274 | 7060 | 6613 | 6088 | 5465 | 4862 | 4148 | 3433 | 2723 |
| 6 m | 50 | 5786 | 5591 | 5427 | 5083 | 4679 | 4201 | 3738 | 3188 | 2639 | 2093 |
| 3 m | 100 | 4297 | 4153 | 4031 | 3775 | 3475 | 3120 | 2776 | 2368 | 1960 | 1554 |
| 2.08 m | 144 | 3658 | 3535 | 3431 | 3214 | 2958 | 2656 | 2363 | 2016 | 1668 | 1323 |
| 1.5 m | 200 | 3312 | 3201 | 3107 | 2910 | 2679 | 2405 | 2140 | 1825 | 1511 | 1198 |
| 75 cm | 400 | 2279 | 2202 | 2137 | 2002 | 1843 | 1655 | 1472 | 1256 | 1039 | 824 |
| 69 cm | 430 | 2208 | 2134 | 2071 | 1940 | 1786 | 1603 | 1426 | 1217 | 1007 | 799 |
| 37.5 cm | 800 | 1556 | 1504 | 1460 | 1367 | 1259 | 1130 | 1005 | 858 | 710 | 563 |
| 30 cm | 1000 | 1383 | 1336 | 1297 | 1215 | 1118 | 1004 | 893 | 762 | 631 | 500 |
| 23.1 cm | 1296 | 1187 | 1147 | 1113 | 1043 | 960 | 862 | 767 | 654 | 541 | 429 |
| 12.5 cm | 2400 | 818 | 791 | 768 | 719 | 662 | 594 | 529 | 451 | 373 | 296 |
| 10 cm | 3000 | 719 | 695 | 675 | 632 | 582 | 522 | 465 | 396 | 328 | 260 |
| 7.5 cm | 4000 | 603 | 583 | 566 | 530 | 488 | 438 | 390 | 333 | 275 | 218 |
| 6 cm | 5000 | 529 | 512 | 497 | 465 | 428 | 384 | 342 | 292 | 241 | 192 |
| 5 cm | 6000 | 473 | 457 | 443 | 415 | 382 | 343 | 305 | 260 | 216 | 171 |
| 4.2 cm | 7000 | 428 | 413 | 401 | 376 | 346 | 311 | 276 | 236 | 195 | 155 |
| 3.75 cm | 8000 | 397 | 383 | 372 | 349 | 321 | 288 | 256 | 219 | 181 | 144 |
| 3.3 cm | 9000 | 368 | 356 | 345 | 323 | 298 | 267 | 238 | 203 | 168 | 133 |
| 3 cm | 10.000 | 342 | 330 | 320 | 300 | 276 | 248 | 221 | 188 | 156 | 124 |

Do not use the cable as power supply for both direct current and 50-60 HZ mains