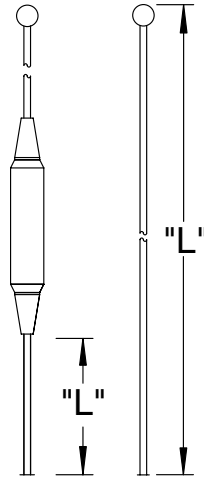




CUTTING CHART FOR LOAD COIL ANTENNAS



- 1) Locate the proper cutting chart for your antenna on one of the charts listed on this chart.
- 2) The charts list the rod length in inches.
- 3) Due to the continuing improvement of our entire antenna line, the cutting chart you have received with our antenna should not be used as valid data for future antenna shipments.
- 4) For collinear antennas, cut the bottom rod per the illustration:
- 5) Antenex antennas are designed and sold for the commercial installer. If you are not a qualified installer, it is suggested you contact your local radio dealer or distributor for professional installation.

| C27 27-31 MHz DC Ground Base Load QW | | |
|--|-----------------------|------------------------|
| Frequency Mhz | Rod Length w/o Spring | Rod Length with Spring |
| 27.0 | 49" | 47" |
| 27.5 | 47-1/2" | 45-1/2" |
| 28.0 | 46" | 44" |
| 28.5 | 44-1/4" | 42-1/4" |
| 29.0 | 42-3/4" | 40-3/4" |
| 30.0 | 39-3/4" | 37-1/4" |
| 30.5 | 38-1/2" | 36-1/2" |
| 31.0 | 37-1/4" | 35-1/4" |

| C30 30-35 MHz DC Ground Base Load QW | | |
|--|-----------------------|------------------------|
| Frequency Mhz | Rod Length w/o Spring | Rod Length with Spring |
| 30.0 | 49" | 47" |
| 30.5 | 47" | 45-1/4" |
| 31.0 | 45-1/2" | 43-3/4" |
| 31.5 | 44" | 42-1/2" |
| 32.0 | 42-3/4" | 41" |
| 32.5 | 41-1/4" | 39-3/4" |
| 33.0 | 40" | 38-1/4" |
| 33.5 | 38-3/4" | 37" |
| 34.0 | 37-3/4" | 36" |
| 34.5 | 36-1/2" | 34-1/2" |
| 35.0 | 35-1/2" | 33-1/2" |

| C34 34-37 MHz Ground Base Load QW | | |
|---|-----------------------|------------------------|
| Frequency Mhz | Rod Length w/o Spring | Rod Length with Spring |
| 34.0 | 49" | 47-1/2" |
| 34.5 | 47-3/4" | 46" |
| 35.0 | 46-1/2" | 44-3/4" |
| 35.5 | 45-1/4" | 43-1/2" |
| 36.0 | 44" | 42-1/2" |
| 36.5 | 42-3/4" | 41-1/4" |
| 37.0 | 41-3/4" | 40" |

| C37 37-40 MHz DC Ground Base Load QW | | |
|--|-----------------------|------------------------|
| Frequency Mhz | Rod Length w/o Spring | Rod Length with Spring |
| 37.0 | 49" | 46-1/2" |
| 37.5 | 47" | 45" |
| 38.0 | 46" | 44-1/4" |
| 38.5 | 45" | 43-1/2" |
| 39.0 | 44" | 42-3/4" |
| 39.5 | 43-1/4" | 41-1/2" |
| 40.0 | 42-1/4" | 40-3/4" |

| C40 40-47 MHz DC Ground Base Load QW | | |
|--|-----------------------|------------------------|
| Frequency Mhz | Rod Length w/o Spring | Rod Length with Spring |
| 40.0 | 49" | 47-1/2" |
| 40.5 | 48-1/4" | 46-3/4" |
| 41.0 | 47-1/2" | 46" |
| 41.5 | 46-1/2" | 45" |
| 42.0 | 45-3/4" | 44-1/4" |
| 42.5 | 45" | 43-1/2" |
| 43.0 | 44" | 42-3/4" |
| 43.5 | 43-1/4" | 41-3/4" |
| 44.0 | 42-1/2" | 41" |
| 44.5 | 41-3/4" | 40-1/4" |
| 45.0 | 41" | 39-1/2" |
| 45.5 | 40-1/4" | 38-3/4" |
| 46.0 | 39-1/2" | 38" |
| 46.5 | 38-3/4" | 37-1/4" |
| 47.0 | 38" | 36-3/4" |

| C47 47-50 MHz DC Ground Base Load QW | | |
|--|-----------------------|------------------------|
| Frequency Mhz | Rod Length w/o Spring | Rod Length with Spring |
| 47.0 | 49" | 47-3/4" |
| 47.5 | 48-1/4" | 47-1/4" |
| 48.0 | 47-1/4" | 46-3/4" |
| 48.5 | 47-1/4" | 46-1/4" |
| 49.0 | 46-3/4" | 45-3/4" |
| 49.5 | 46-1/4" | 45-1/4" |
| 50.0 | 45-3/4" | 44-3/4" |

| B52 52-174 MHz Unity 1/4 Wave | | |
|---|-----------------------|------------------------|
| Frequency Mhz | Rod Length w/o Spring | Rod Length with Spring |
| 54 | 53-1/4" | 19-1/8" |
| 56 | 51-1/4" | 18-7/8" |
| 58 | 49-1/2" | 18-1/2" |
| 60 | 47-3/4" | 18-1/4" |
| 62 | 46-1/4" | 18" |
| 64 | 45-1/4" | 17-5/8" |
| 66 | 44-5/8" | 17-3/8" |
| 72 | 40-3/4" | 17" |
| 78 | 37-5/8" | 16-7/8" |
| 84 | 34-7/8" | 16-5/8" |
| 90 | 32-5/8" | 16-3/8" |
| 96 | 30-1/2" | 16-1/4" |
| 102 | 28-3/4" | 16" |
| 108 | 27-1/8" | 15-3/4" |
| 114 | 25-5/8" | 15-1/2" |
| 132 | 20-1/8" | 14-5/8" |
| 134 | 19-7/8" | 14-1/2" |

| B66 66-174 MHz Unity 1/4 Wave | | |
|---|-----------------------|------------------------|
| Frequency Mhz | Rod Length w/o Spring | Rod Length with Spring |
| 66 | 44-5/8" | 18-1/4" |
| 72 | 40-3/4" | 18" |
| 78 | 37-5/8" | 17-5/8" |
| 84 | 34-7/8" | 17-3/8" |
| 90 | 32-5/8" | 17" |
| 96 | 30-1/2" | 16-7/8" |
| 102 | 28-3/4" | 16-5/8" |
| 108 | 27-1/8" | 16-3/8" |
| 114 | 25-5/8" | 16-1/4" |
| 120 | 24-3/8" | 16" |
| 126 | 23-1/8" | 15-3/4" |
| 132 | 20-1/8" | 15-1/2" |
| 134 | 19-7/8" | 15-1/2" |
| 136 | 19-1/2" | 15" |
| 138 | 19-1/8" | 14-5/8" |
| 140 | 18-7/8" | 14-1/2" |
| 142 | 18-1/2" | |

| B1323 132-174 MHz 3dB Loaded 5/8 Wave | | |
|---|-----------------------|------------------------|
| Frequency Mhz | Rod Length w/o Spring | Rod Length with Spring |
| 132 | 55" | 53-5/8" |
| 134 | 54-5/8" | 52-1/2" |
| 136 | 53-5/8" | 51-1/4" |
| 138 | 53-1/2" | 50" |
| 140 | 52-3/4" | 49-3/8" |
| 142 | 52" | 48-1/2" |
| 144 | 49" | 46-3/4" |
| 146 | 48-1/4" | 45-1/4" |
| 148 | 47" | 45" |
| 150 | 46-1/4" | 44" |
| 152 | 45-1/2" | 43" |
| 154 | 44-1/4" | 42" |
| 156 | 43-1/4" | 41" |
| 158 | 43" | 40-1/2" |
| 160 | 42-1/4" | 39-3/4" |
| 162 | 41-1/2" | 38-3/4" |
| 164 | 40-3/4" | 38-1/8" |
| 166 | 40" | 37-1/4" |
| 168 | 39-1/2" | 36-1/2" |
| 170 | 38-3/4" | 35-1/2" |
| 172 | 38" | 35-1/2" |
| 174 | 37-1/2" | 34-3/4" |

| B1442N 144-174 MHz 1/2 Wave NGP 2dB | | |
|---|-----------------------|------------------------|
| Frequency Mhz | Rod Length w/o Spring | Rod Length with Spring |
| 132 | 53" | 51" |
| 134 | 51" | 49" |
| 136 | 49-1/2" | 47-1/2" |
| 138 | 48" | 45-1/2" |
| 140 | 46-1/2" | 43-1/2" |
| 142 | 45" | 42" |
| 144 | 44" | 40-3/4" |
| 146 | 42-1/2" | 39-1/2" |
| 148 | 41-1/2" | 38-1/2" |
| 150 | 40-1/4" | 37" |
| 152 | 39" | 36" |
| 154 | 38" | 35" |
| 156 | 37" | 34" |
| 158 | 35-1/2" | 33" |
| 160 | 34-1/2" | 32" |
| 162 | 33-1/2" | 31" |
| 164 | 32-3/4" | 30-1/4" |
| 166 | 32" | 29-1/2" |
| 168 | 31-1/2" | 29" |
| 170 | 31" | 28-1/2" |
| 172 | 30-1/4" | 27-3/4" |
| 174 | 29-1/2" | 27" |

| B1443 144-174 MHz 3dB Loaded 5/8 Wave | | |
|---|-----------------------|------------------------|
| Frequency Mhz | Rod Length w/o Spring | Rod Length with Spring |
| 132 | 54-5/8" | 52-5/8" |
| 134 | 53-1/2" | 51-3/8" |
| 136 | 52-3/8" | 50-1/8" |
| 138 | 51-1/4" | 49" |
| 140 | 50-1/4" | 48" |
| 142 | 49-3/8" | 47" |
| 144 | 48-1/8" | 45-5/8" |
| 146 | 47-1/4" | 44-3/4" |
| 148 | 46-3/8" | 43-3/4" |
| 150 | 45-1/2" | 42-7/8" |
| 152 | 44-7/8" | 42-1/8" |
| 154 | 43-3/4" | 41-1/2" |
| 156 | 42-7/8" | 40-3/8" |
| 158 | 42-1/8" | 39-1/2" |
| 160 | 41-1/4" | 38-7/8" |
| 162 | 40-1/2" | 38" |
| 164 | 39-1/2" | 37-1/8" |
| 166 | 38-3/4" | 36-1/4" |
| 168 | 38" | 35-3/8" |
| 170 | 37-1/8" | 34-3/8" |
| 172 | 36-3/8" | 33-5/8" |
| 174 | 35-7/8" | 32-7/8" |

| B2002N 200-225 MHz NGP Base Loaded 1/2 Wave | | |
|---|-----------------------|------------------------|
| Frequency Mhz | Rod Length w/o Spring | Rod Length with Spring |
| 200 | 29-5/8" | 26-3/4" |
| 205 | 28-1/8" | 25-1/2" |
| 210 | 26-1/2" | 23-3/4" |
| 215 | 25" | 22-1/2" |
| 220 | 23-3/8" | 21-1/2" |
| 225 | 21-7/8" | 20-3/8" |

| B2003 200-225 MHz 3dB Loaded 5/8 Wave | | |
|---|-----------------------|------------------------|
| Frequency Mhz | Rod Length w/o Spring | Rod Length with Spring |
| 200 | 33" | 29-3/4" |
| 205 | 32" | 28-3/4" |
| 210 | 31" | 27-3/4" |
| 215 | 30" | 26-3/4" |
| 220 | 29" | 25-3/4" |
| 225 | 28" | 24-3/4" |

| B4065C 406-430 MHz 5dB 5/8 Over 5/8 | | |
|---|-----------------------|------------------------|
| Frequency Mhz | Rod Length w/o Spring | Rod Length with Spring |
| 406 | 16-3/4" | 13-1/8" |
| 410 | 16-3/8" | 12-1/2" |
| 415 | 15-7/8" | 12" |
| 420 | 15-3/8" | 11" |
| 425 | 14-7/8" | 11" |
| 430 | 14-3/8" | 10-1/2" |

| B4065CN 406-430 MHz NGP 5/8 Over 5/8 Wave | | |
|---|-----------------------|------------------------|
| Frequency Mhz | Rod Length w/o Spring | Rod Length with Spring |
| 406 | 13-3/8" | 13-5/8" |
| 410 | 13" | 13-1/8" |
| 415 | 12-1/2" | 12-9/16" |
| 420 | 12" | 12" |
| 425 | 11-9/16" | 11-1/2" |
| 430 | 11-1/8" | 11" |

| B4305C 430-450 MHz 5dB 5/8 Over 5/8 | | |
|---|-----------------------|------------------------|
| Frequency Mhz | Rod Length w/o Spring | Rod Length with Spring |
| 430 | 14-3/8" | 12-9/16" |
| 435 | 13-7/8" | 12-1/8" |
| 440 | 13-3/8" | 11-11/16" |
| 445 | 12-7/8" | 11-1/4" |
| 450 | 12-3/8" | 10-7/8" |

| B4305CN 430-450 MHz 5dB NGP 5/8 Over 5/8 | | |
|--|-----------------------|------------------------|
| Frequency Mhz | Rod Length w/o Spring | Rod Length with Spring |
| 430 | 14" | 16-1/2" |
| 435 | 13-1/2" | 15-1/2" |
| 440 | 13" | 14-1/2" |
| 445 | 12-1/2" | 13-1/2" |
| 450 | 12" | 12-1/2" |

| B4505C 450-470 MHz 5dB 5/8 Over 5/8 Wave | | |
|--|-----------------------|------------------------|
| Frequency Mhz | Rod Length w/o Spring | Rod Length with Spring |
| 450 | 12-7/8" | 11-3/4" |
| 455 | 12-3/8" | 11-1/8" |
| 460 | 11-5/8" | 10-7/8" |
| 465 | 11-1/8" | 10-1/2" |
| 470 | 10-5/8" | 10-1/4" |

| B4505CN 450-470 MHz 5dB NGP 5/8 Over 5/8 | | |
|--|-----------------------|------------------------|
| Frequency Mhz | Rod Length w/o Spring | Rod Length with Spring |
| 450 | 14-3/8" | 11" |
| 455 | 13-7/8" | 10-5/8" |
| 460 | 13-3/8" | 10-1/4" |
| 465 | 13" | 9-7/8" |
| 470 | 12-5/8" | 9-1/2" |

| B4705C 470-490 MHz 5dB 5/8 Over 5/8 WAVE | | |
|--|-----------------------|------------------------|
| Frequency Mhz | Rod Length w/o Spring | Rod Length with Spring |
| 470 | 13-7/8" | 12-1/2" |
| 475 | 13-3/8" | 12" |
| 480 | 12-7/8" | 11-1/2" |
| 485 | 12-1/2" | 11" |
| 490 | 11-3/4" | 10-1/2" |

| B4705CN 470-490 MHz 5dB NGP 5/8 Over 5/8 | | |
|--|-----------------------|------------------------|
| Frequency Mhz | Rod Length w/o Spring | Rod Length with Spring |
| 470 | 10-7/8" | 10-1/4" |
| 475 | 10-1/2" | 9-7/8" |
| 480 | 10-1/8" | 9-1/2" |
| 485 | 9-13/16" | 9-1/8" |
| 490 | 9-1/2" | 8-3/4" |

| B4905CN 490-512 MHz 5dB NGP 5/8 Over 5/8 | | |
|--|-----------------------|------------------------|
| Frequency Mhz | Rod Length w/o Spring | Rod Length with Spring |
| 490 | 13" | |
| 495 | 12-1/2" | |
| 500 | 11-7/8" | |
| 505 | 11-1/4" | |
| 510 | 10-3/4" | |

| B4905C 490-512 MHz 5dB 5/8 Over 5/8 Wave | | |
|--|-----------------------|------------------------|
| Frequency Mhz | Rod Length w/o Spring | Rod Length with Spring |
| 490 | 11-5/8" | 10-5/16" |
| 495 | 11-1/4" | 10-1/16" |
| 500 | 10-7/8" | 9-13/16" |
| 505 | 10-1/2" | 7-7/16" |
| 512 | 10-3/16" | 9-1/4" |

Whatever your installation requires, Antenex has the right mount, cables, connectors and accessories for you!



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