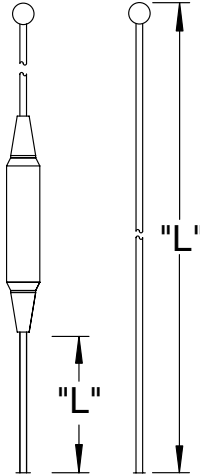




## CUTTING CHART FOR LOAD COIL ANTENNAS

- 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<br>Mhz                 | Rod Length<br>w/o Spring | Rod Length<br>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<br>Mhz                 | Rod Length<br>w/o Spring | Rod Length<br>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"                  | 40-3/4"                   |
| 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<br>Mhz              | Rod Length<br>w/o Spring | Rod Length<br>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<br>Mhz                 | Rod Length<br>w/o Spring | Rod Length<br>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<br>Mhz                 | Rod Length<br>w/o Spring | Rod Length<br>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<br>Mhz                 | Rod Length<br>w/o Spring | Rod Length<br>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<br>Mhz          | Rod Length<br>w/o Spring | Rod Length<br>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<br>Mhz          | Rod Length<br>w/o Spring | Rod Length<br>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<br>Mhz                | Rod Length<br>w/o Spring | Rod Length<br>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<br>Mhz             | Rod Length<br>w/o Spring | Rod Length<br>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<br>Mhz                | Rod Length<br>w/o Spring | Rod Length<br>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<br>Mhz                     | Rod Length<br>w/o Spring | Rod Length<br>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<br>Mhz                | Rod Length<br>w/o Spring | Rod Length<br>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<br>Mhz             | Rod Length<br>w/o Spring | Rod Length<br>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<br>Mhz                  | Rod Length<br>w/o Spring | Rod Length<br>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<br>Mhz             | Rod Length<br>w/o Spring | Rod Length<br>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<br>Mhz                 | Rod Length<br>w/o Spring | Rod Length<br>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 5dB 5/8 Over 5/8 Wave |                          |                           |
| Frequency<br>Mhz              | Rod Length<br>w/o Spring | Rod Length<br>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<br>Mhz                 | Rod Length<br>w/o Spring | Rod Length<br>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 5dB 5/8 Over 5/8 WAVE |                          |                           |
| Frequency<br>Mhz              | Rod Length<br>w/o Spring | Rod Length<br>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 5dB NGP 5/8 Over 5/8 |                          |                           |
| Frequency<br>Mhz             | Rod Length<br>w/o Spring | Rod Length<br>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 5dB NGP 5/8 Over 5/8 |                          |  |
| Frequency<br>Mhz             | Rod Length<br>w/o Spring |  |
| 490                          | 13"                      |  |
| 495                          | 12-1/2"                  |  |
| 500                          | 11-7/8"                  |  |
| 505                          | 11-1/4"                  |  |
| 510                          | 10-3/4"                  |  |

| B4905C                        |                          |                           |
|-------------------------------|--------------------------|---------------------------|
| 490-512 5dB 5/8 Over 5/8 Wave |                          |                           |
| Frequency<br>Mhz              | Rod Length<br>w/o Spring | Rod Length<br>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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