# Wire Antennas for Ham Radio

70 Antenna Ideas

Iulian Rosu YO3DAC / VA3IUL,

http://www.gsl.net/va3iul

#### **ANTENNAS**

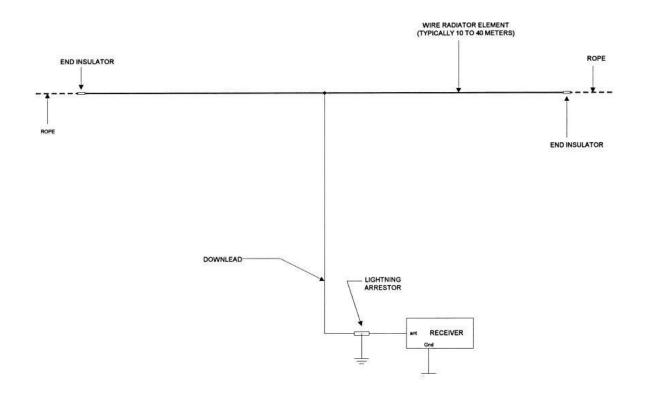
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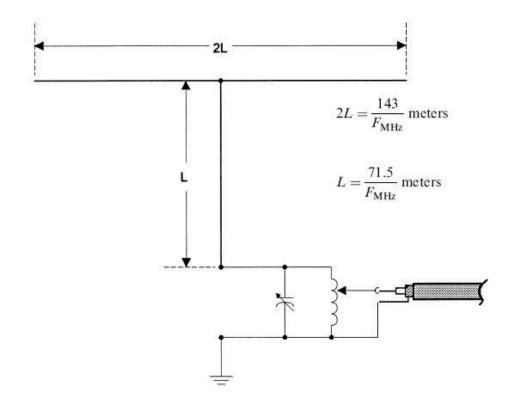
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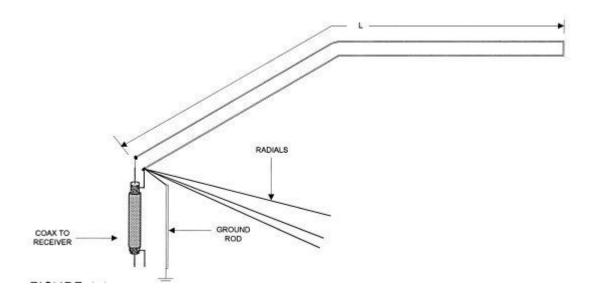
#### 1. Tee Antenna



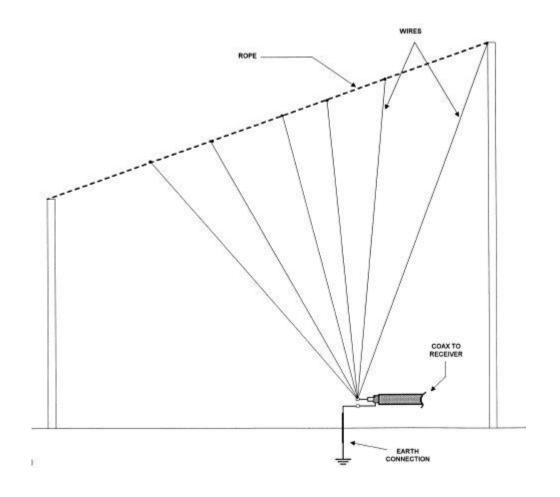
#### 2. Half-Lamda Tee Antenna



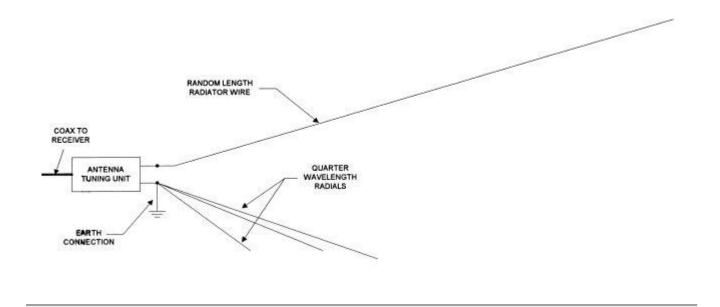
#### 3. Twin-Led Marconi Antenna



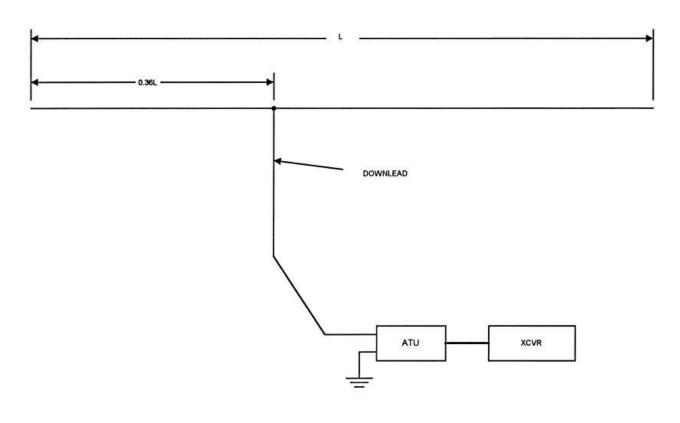
#### 4. Swallow-Tail Antenna



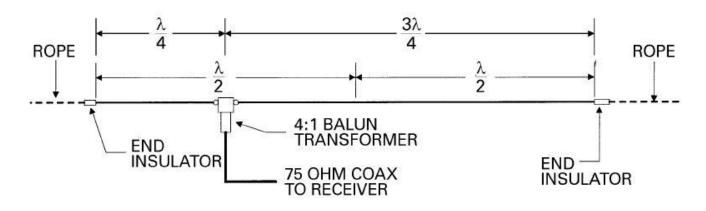
# 5. Random Length Radiator Wire Antenna



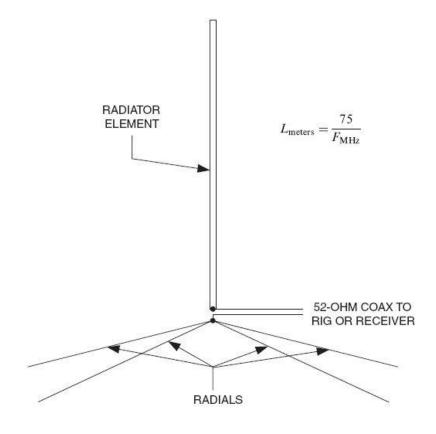
#### 6. Windom Antenna



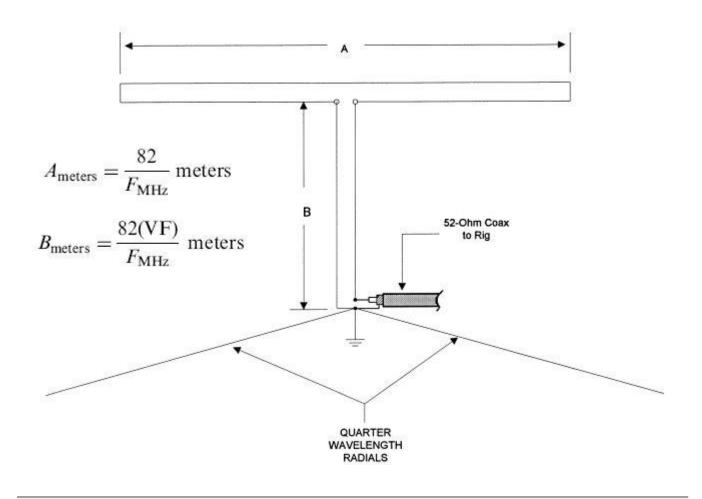
#### 7. Windom Antenna - Feed with coax cable



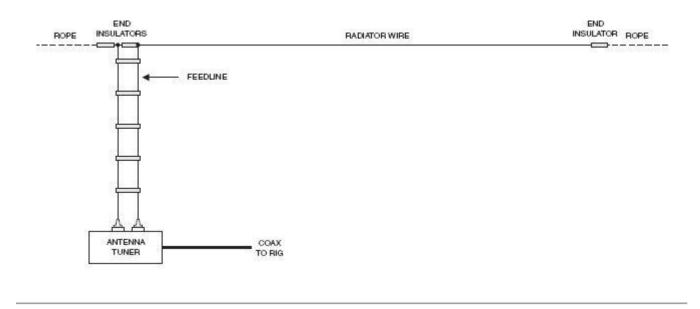
# 8. Quarter Wavelength Vertical Antenna



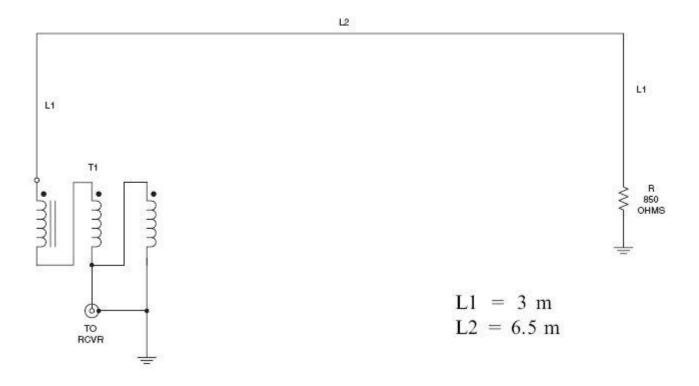
#### 9. Folded Marconi Tee Antenna



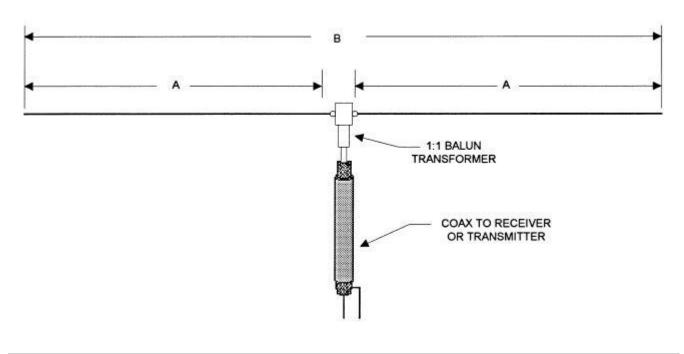
# 10. Zeppelin Antenna



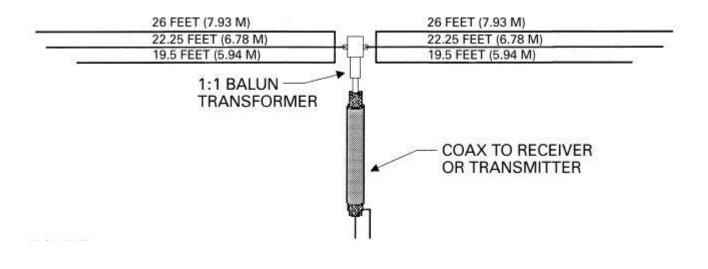
#### 11. EWE Antenna



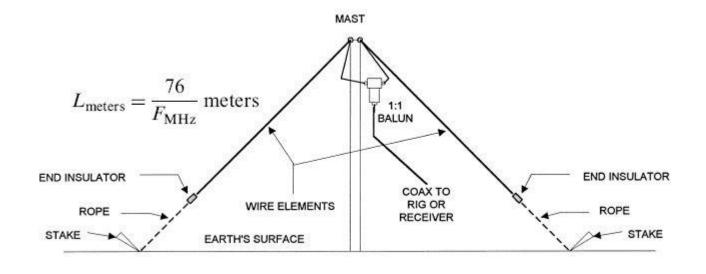
# 12. Dipole Antenna - Balun



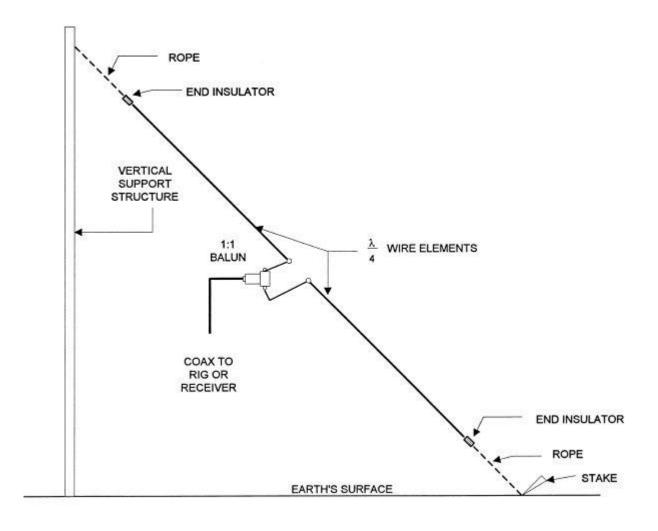
#### 13. Multiband Dipole Antenna



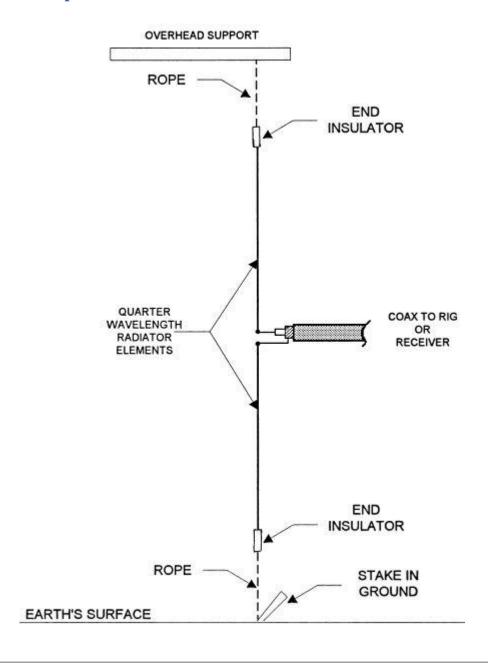
#### 14. Inverted-Vee Antenna



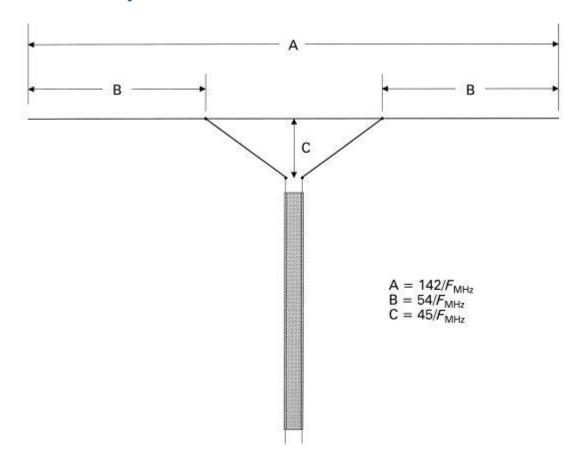
# 15. Sloping Dipole Antenna



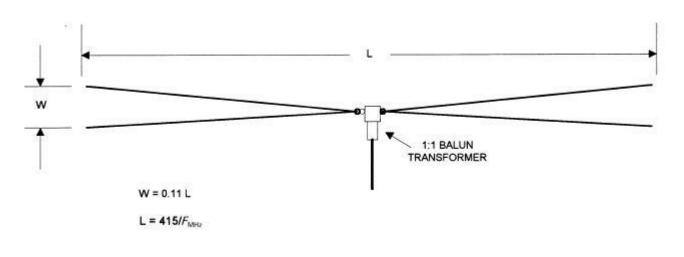
#### 16. Vertical Dipole



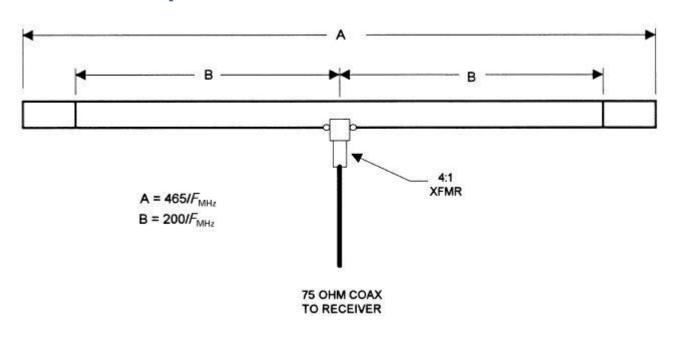
# 17. Delta Fed Dipole Antenna



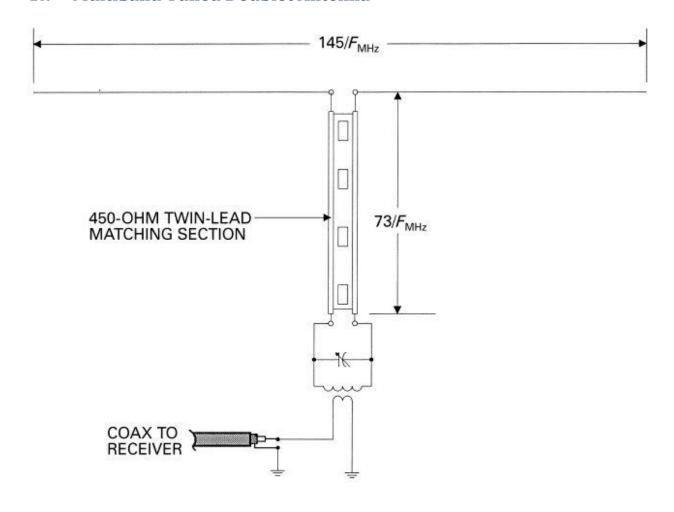
# 18. Bow-Tie Dipole Antenna



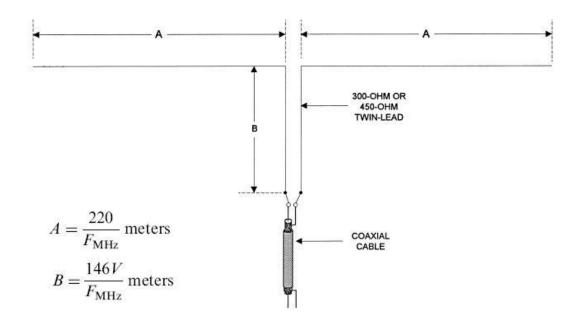
#### 19. Bow-Tie Dipole Antenna



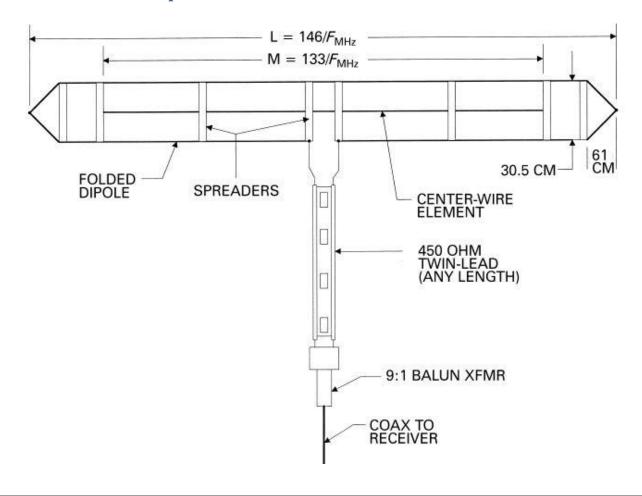
# 20. Multiband Tuned Doublet Antenna



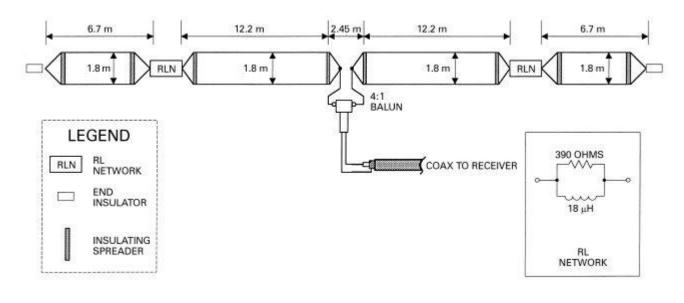
#### 21. **G5RV** Antenna



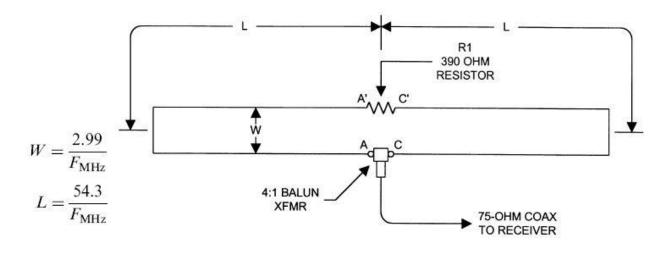
#### 22. Wideband Dipole Antenna



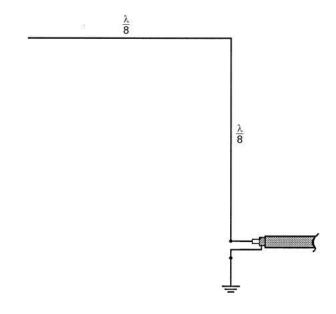
#### 23. Wideband Dipole for Receiving



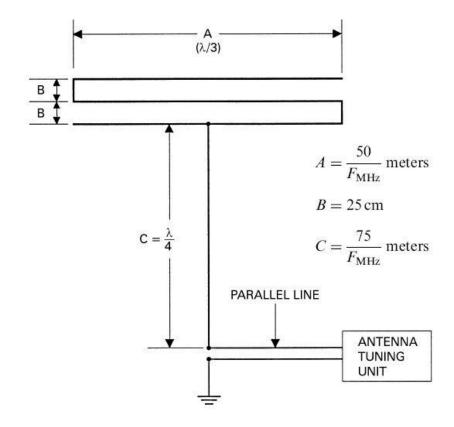
# 24. Tilted Folded Dipole Antenna



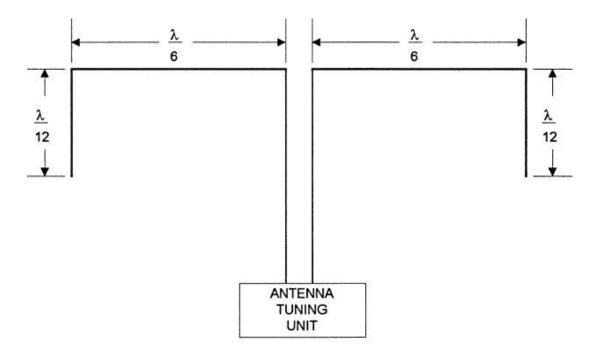
# 25. Right Angle Marconi Antenna



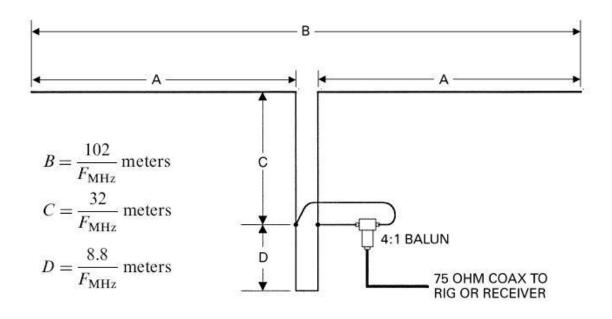
# 26. Linearly Loaded Tee Antenna



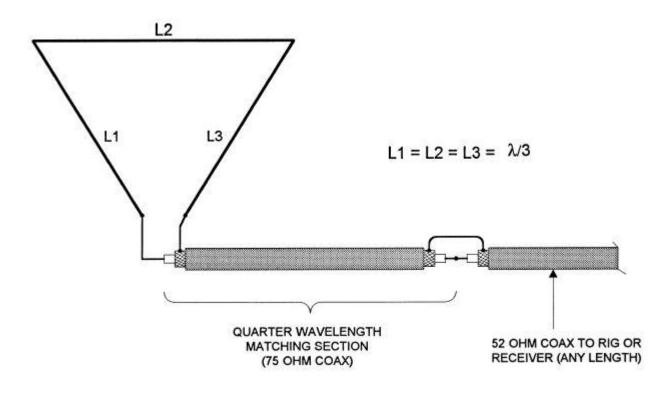
#### 27. Reduced Size Dipole Antenna



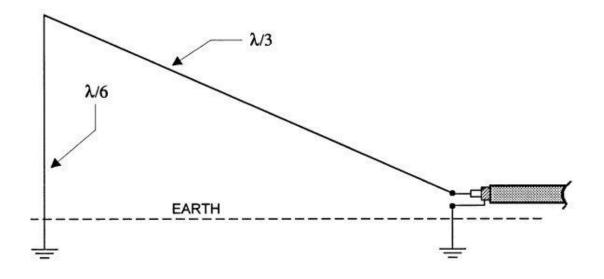
# 28. Doublet Dipole Antenna



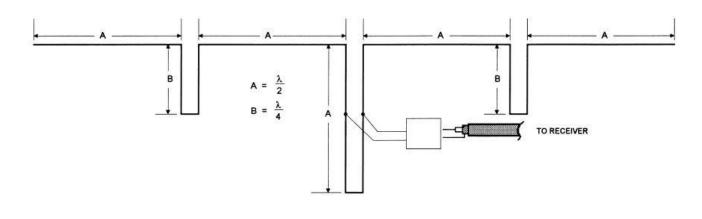
#### 29. Delta Loop Antenna



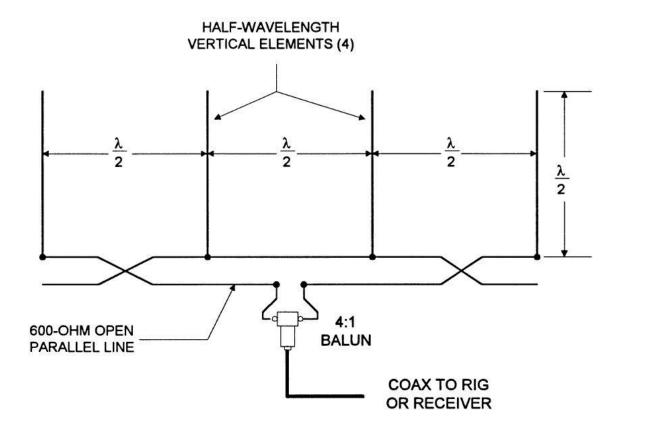
# 30. Half Delta Loop Antenna



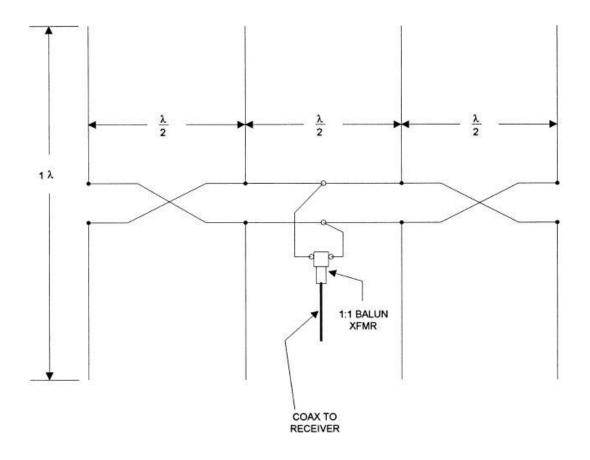
#### 31. Collinear Franklin Antenna



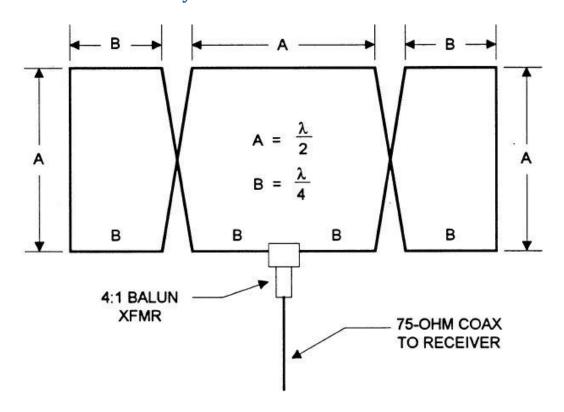
#### 32. Four Element Broadside Antenna



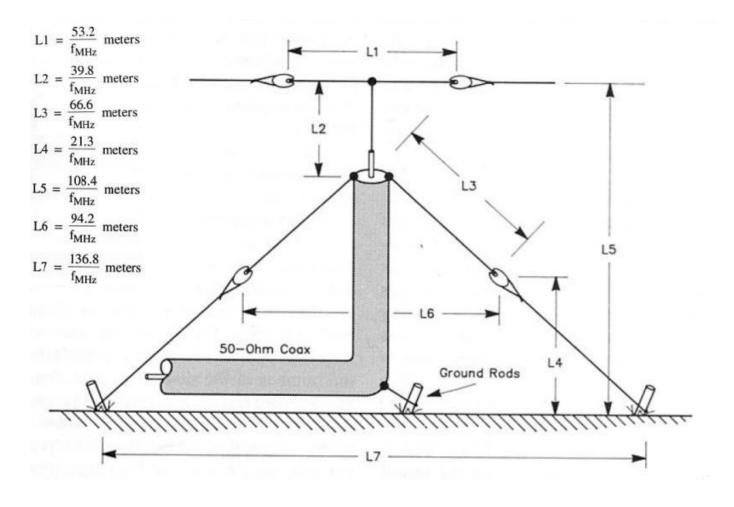
#### 33. The Lazy-H Array Antenna



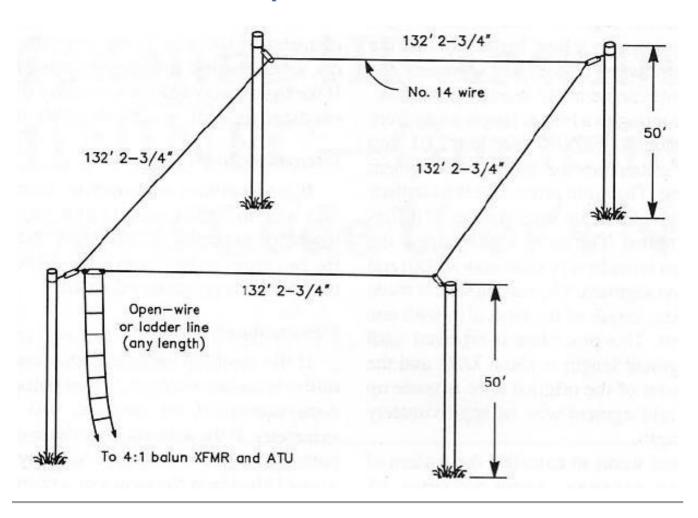
# 34. Sterba Curtain Array Antenna



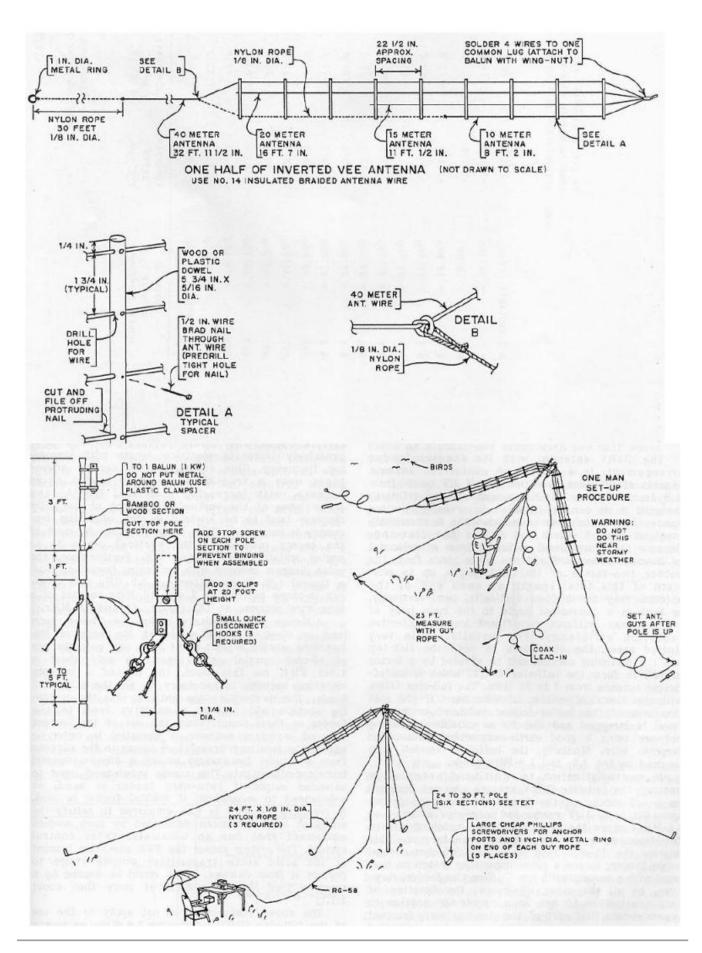
#### 35. T-L DX Antenna



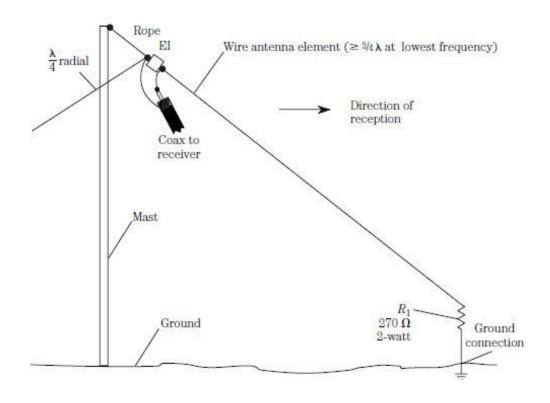
#### 36. 1.9 MHz Full-wave Loop Antenna



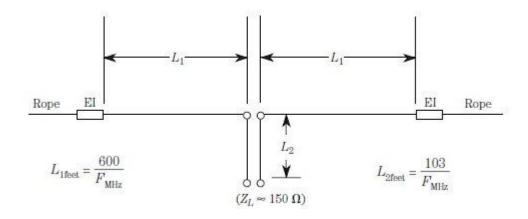
#### 37. Multi-Band Portable Antenna



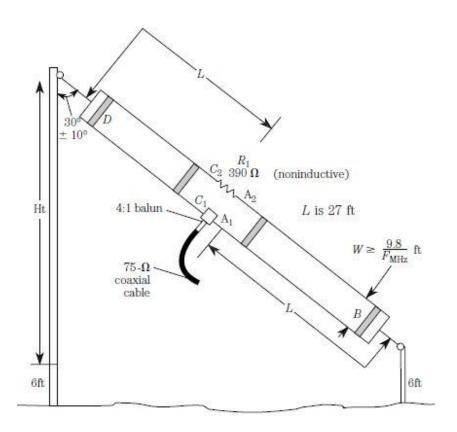
#### 38. Terminated Sloper Antenna



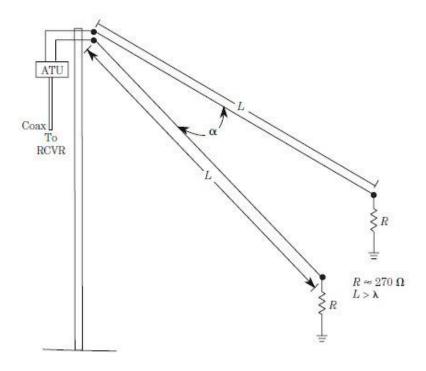
#### 39. Double Extended Zepp Antenna



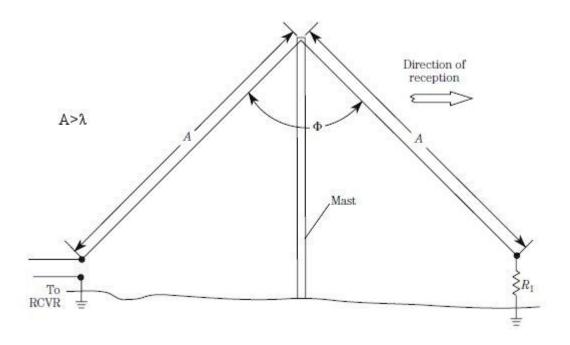
# 40. TCFTFD Dipole Antenna



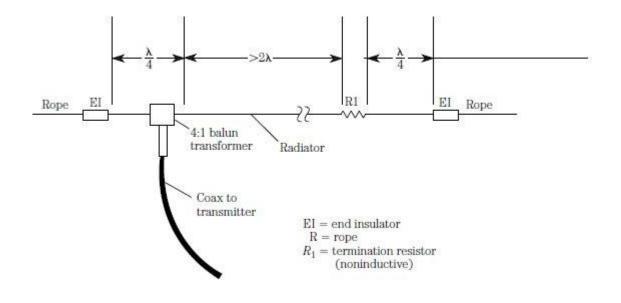
# 41. Vee-Sloper Antenna



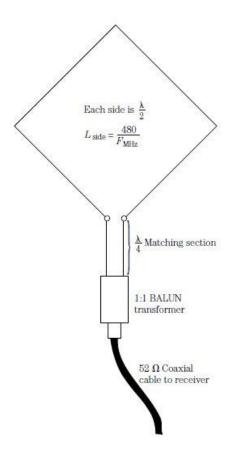
#### 42. Rhombic Inverted-Vee Antenna



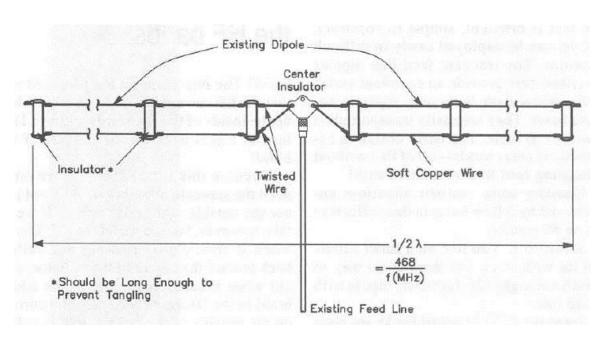
# 43. Counterpoise Longwire



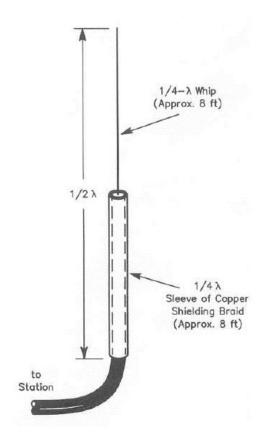
#### 44. Bisquare Loop Antenna



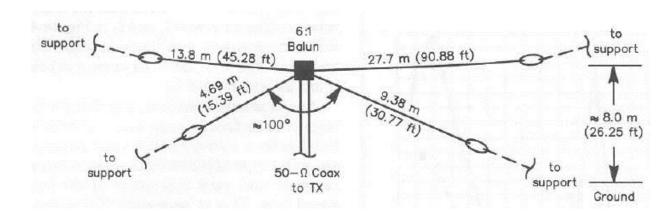
# 45. Piggyback Antenna for 10m



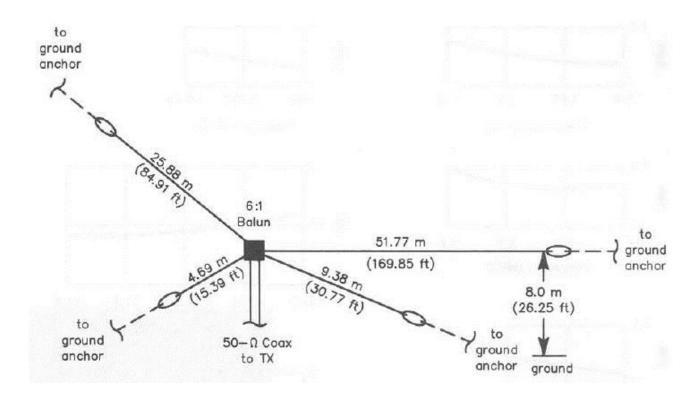
#### 46. Vertical Sleeve Antenna for 10m



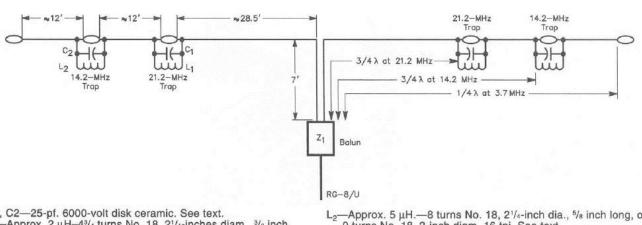
#### 47. Double Windom Antenna



#### **Double Windom for 9 Bands** 48.

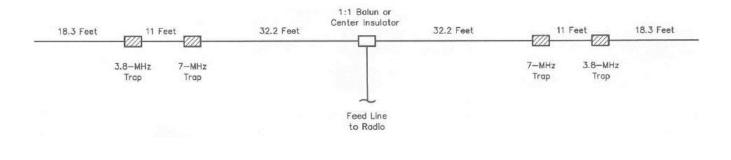


#### 49. Collinear Trap Antenna

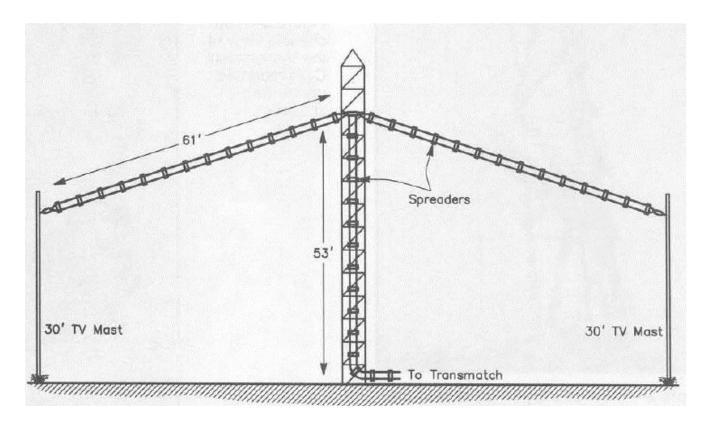


 $L_2$  —Approx. 5  $\mu H.$  —8 turns No. 18, 21/4-inch dia., 5/8 inch long, or 9 turns No. 18, 2-inch diam. 16 tpi. See text. Z \_1 —1 to 1 balun.

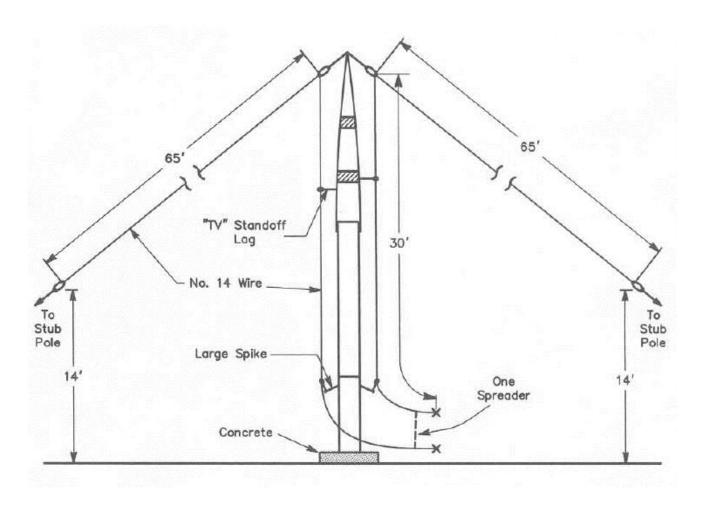
#### 50. Short Dipole Antenna for 40m - 80m - 160m



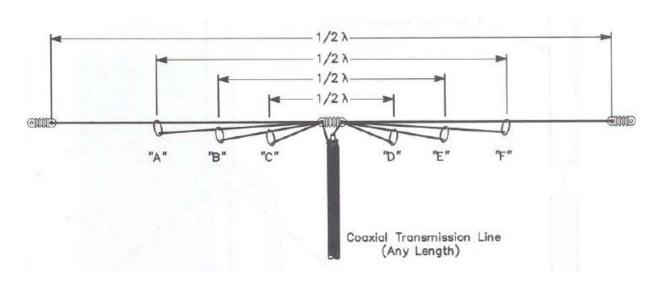
#### 51. Center Fed-Zepp Antenna for 80m - 40m



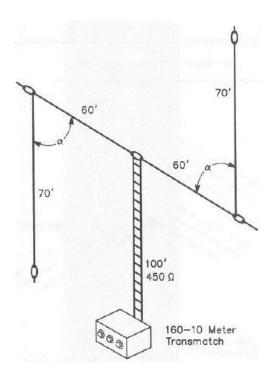
#### 52. All-Bands Antenna



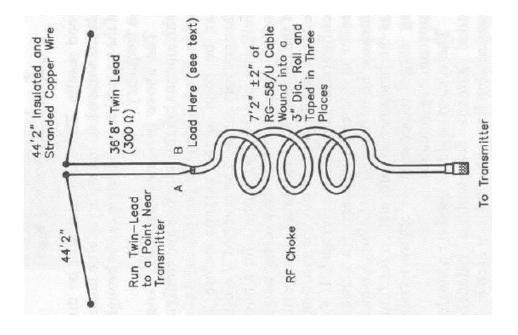
# 53. All-Bands Dipole Antenna



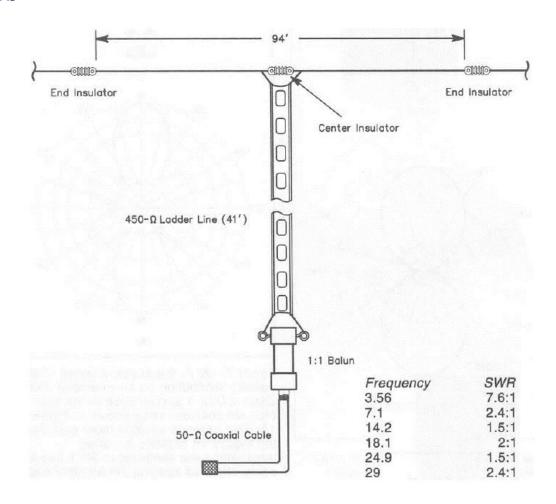
#### 54. Multiband Z Antenna



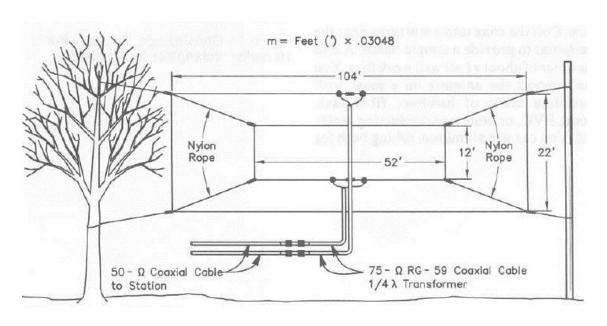
#### 55. Multiband Dipole Antenna



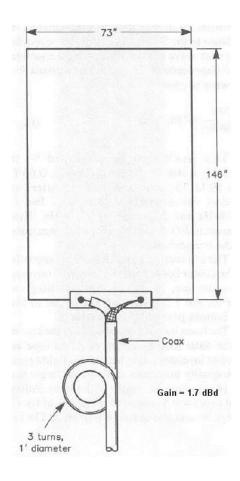
#### 56. Five-Bands No-Tuner Antenna



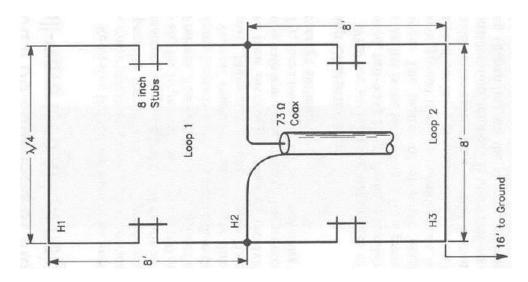
#### 57. Dualband Full-wave Loop Antenna for 80m-40m



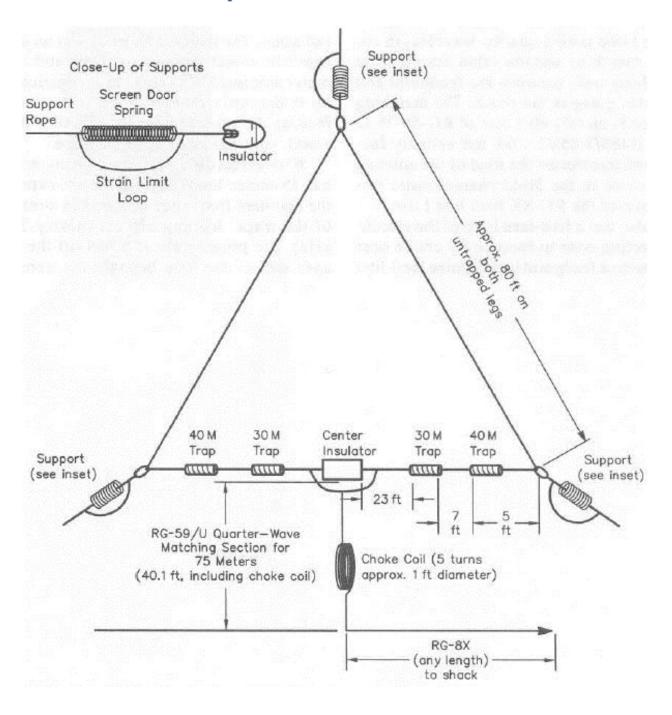
# 58. Loop Antenna for 10m



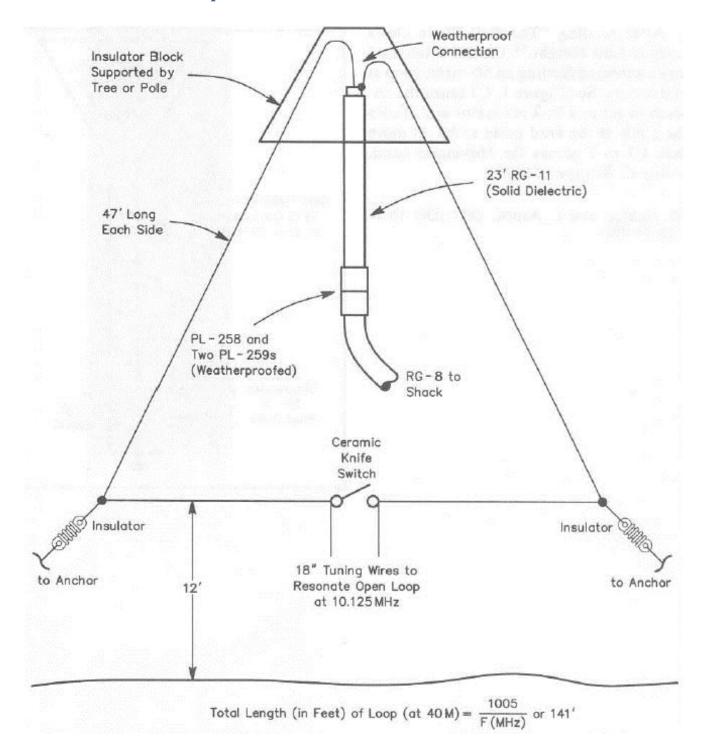
Lazy Quad Antenna for 10m



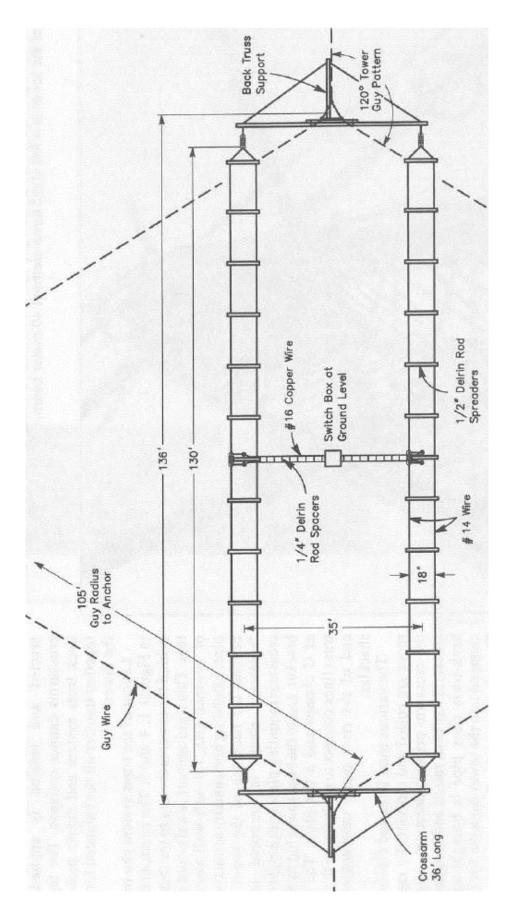
#### 59. Tri-band Delta Loop Antenna for 80m - 40m - 30m



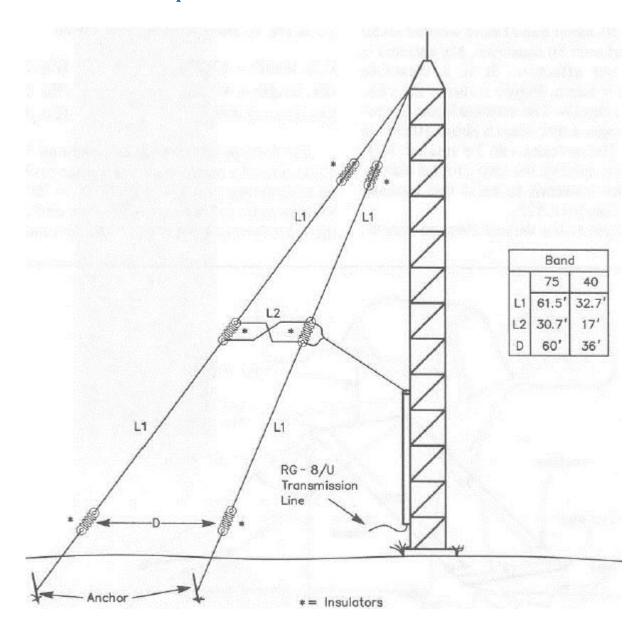
#### 60. Dual-band Loop Antenna for 30m - 40m



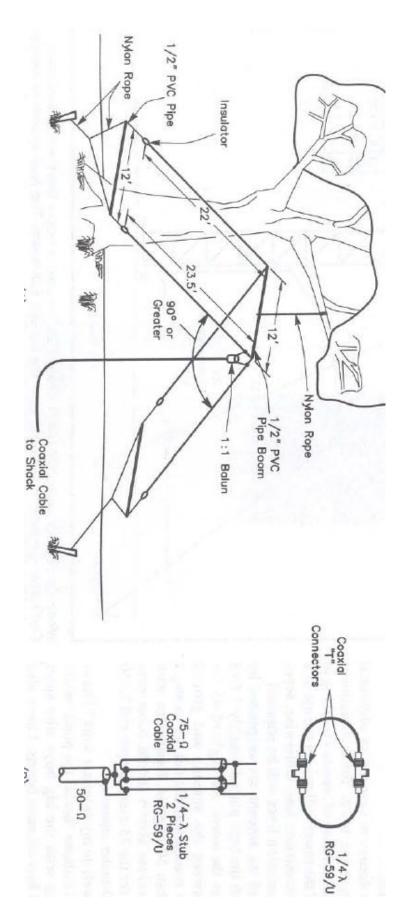
# 61. Wire-Beam Antenna for 80m



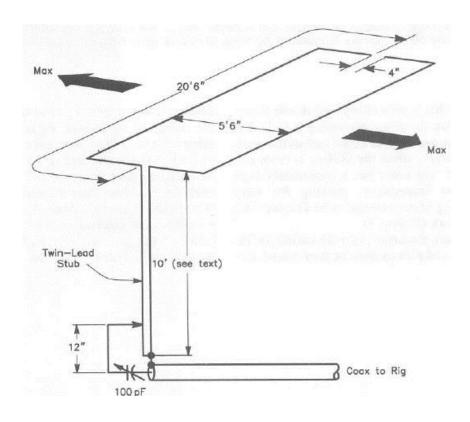
# **62.** Dual-Band Sloper Antenna



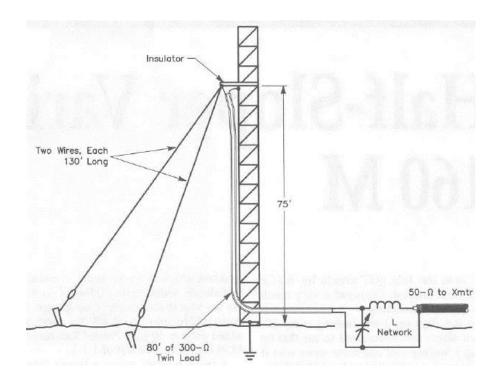
#### 63. Inverted-V Beam Antenna for 30m



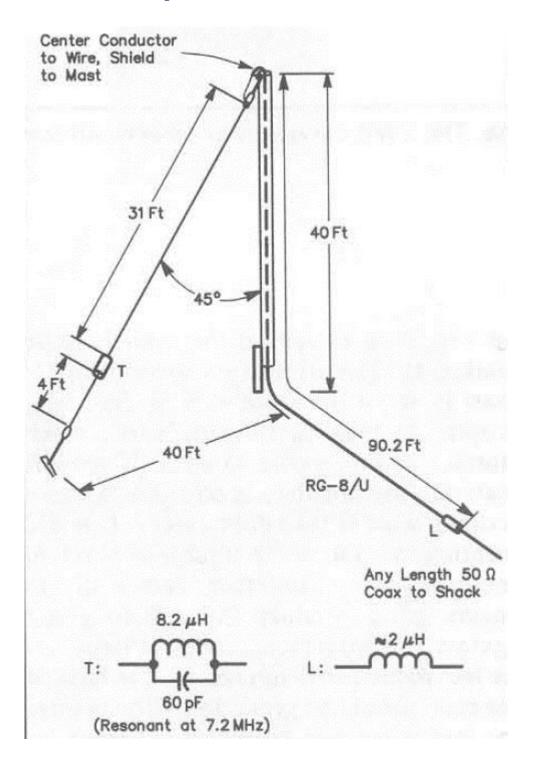
# 64. ZL-Special Beam Antenna for 15m



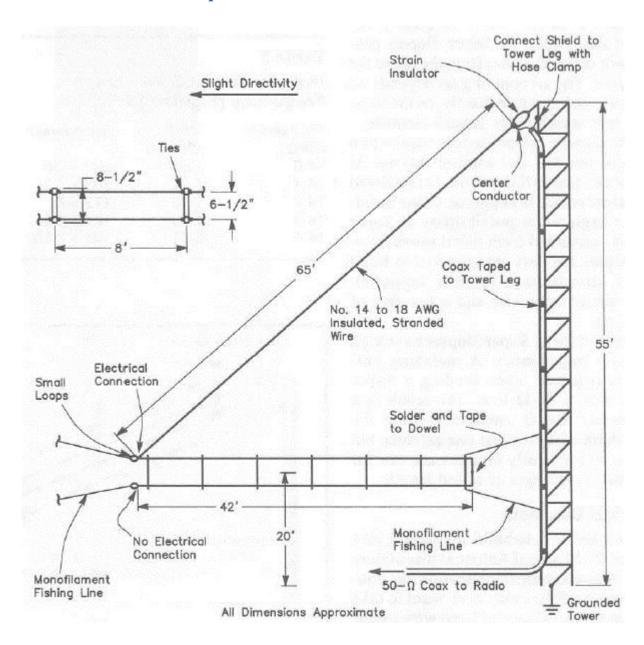
#### 65. Half-Sloper Antenna for 160m



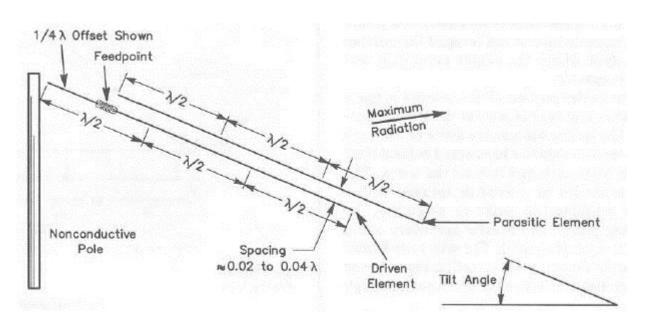
#### 66. Two-Bands Half Sloper for 80m - 40m



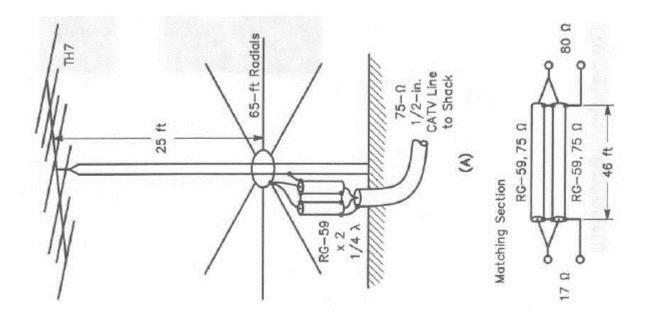
#### 67. Linear Loaded Sloper Antenna for 160m



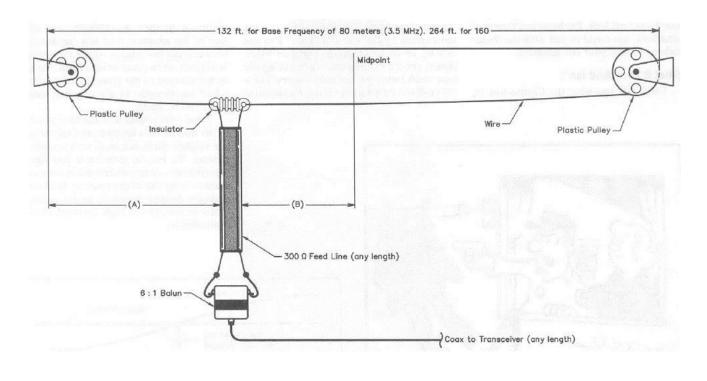
#### 68. Super-Sloper Antenna



#### 69. Tower Pole as a Vertical Antenna for 80m



#### 70. Clothesline Antenna



#### References:

Antenna Toolkit - J. Carr Practical Antenna Handbook - J. Carr More Antenna Classics - C. Hutchinson ARRL Antenna Handbook 1990-2007 ARRL Handbook 1990-2009 ARRL Antenna Compendium

#### Compilado de:

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