

## 1/2-WAVE COLINEAR "EMERGENCY FIELD" 2-METER 146 MHz FM J-POLE

This low power antenna will be coming with me this summer on the motorcycle. I used shrink tubing in place of the electric tape in the diagram.

[Some comments about the FIELD antenna.](#)

### EMERGENCY FIELD ANTENNA: 2 METER OMNIDIRECTIONAL 1/2 WAVE COLINEAR DESIGN

**PARTS LIST:**

1/2" WOOD DOWEL  
CUT TO 2"

HOOK-UP WIRE  
20 GAUGE SOLID  
INSULATED  
ABOUT 10'

TWIN LEAD WIRE  
300ohm  
NOT FOAM TYPE  
ABOUT 20"

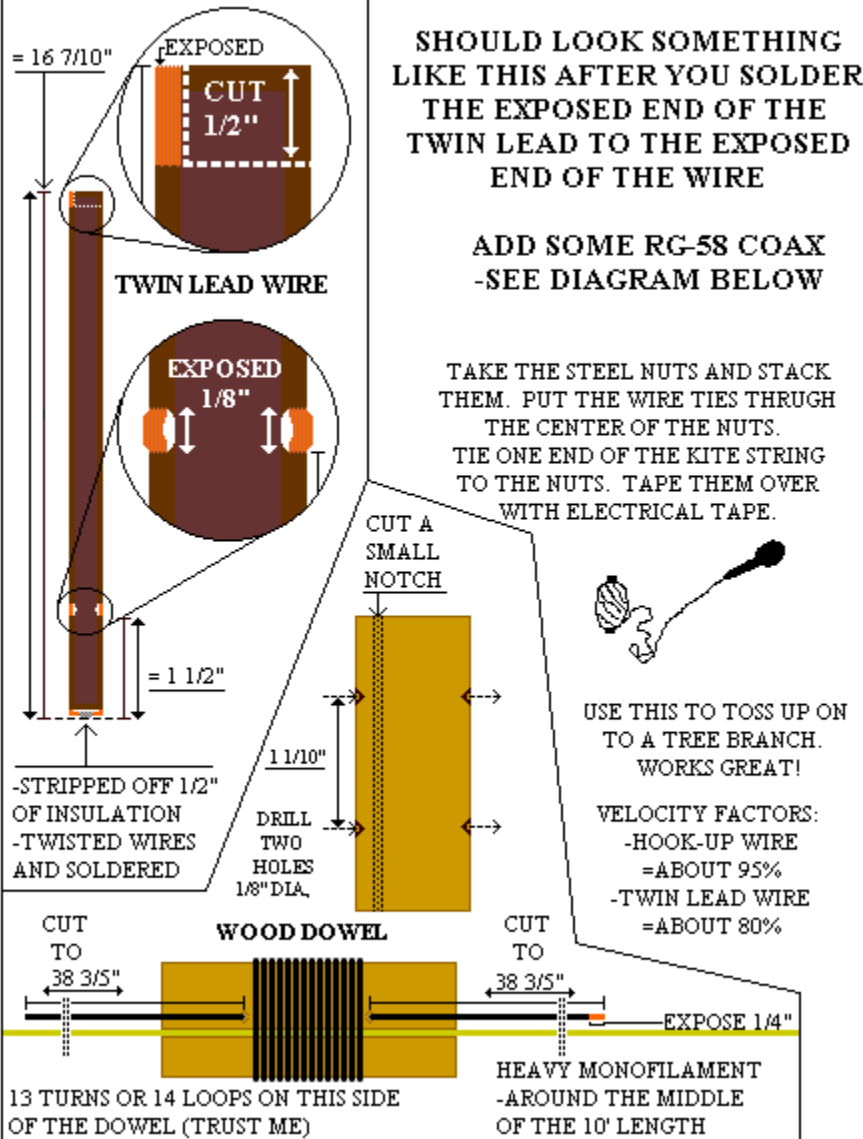
WEED-WHACKER  
MONOFILAMENT  
ABOUT 10'

ELECTRICAL  
TAPE

KITE STRING

3/4" STEEL NUTS  
ABOUT 3

3 WIRE TIES



SHOULD LOOK SOMETHING  
LIKE THIS AFTER YOU SOLDER  
THE EXPOSED END OF THE  
TWIN LEAD TO THE EXPOSED  
END OF THE WIRE

ADD SOME RG-58 COAX  
-SEE DIAGRAM BELOW

TAKE THE STEEL NUTS AND STACK  
THEM. PUT THE WIRE TIES THROUGH  
THE CENTER OF THE NUTS.  
TIE ONE END OF THE KITE STRING  
TO THE NUTS. TAPE THEM OVER  
WITH ELECTRICAL TAPE.



USE THIS TO TOSS UP ON  
TO A TREE BRANCH.  
WORKS GREAT!

VELOCITY FACTORS:  
-HOOK-UP WIRE  
=ABOUT 95%  
-TWIN LEAD WIRE  
=ABOUT 80%

MAKE A LOOP IN EACH  
END OF THE  
MONOFILAMENT

CAREFULLY WRAP  
EVERYTHING  
WITH THE  
ELECTRICAL TAPE  
(TAKE YOUR TIME)

THIS ANTENNA HAS THE  
GAIN OF A SMALL  
BEAM AND COST  
ALMOST NOTHING  
TO MAKE!

GOOD LUCK!



STEVE KB1DIG

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