BUILDING A 160 METER WINDOM

A Off-Center-Fed Dipole

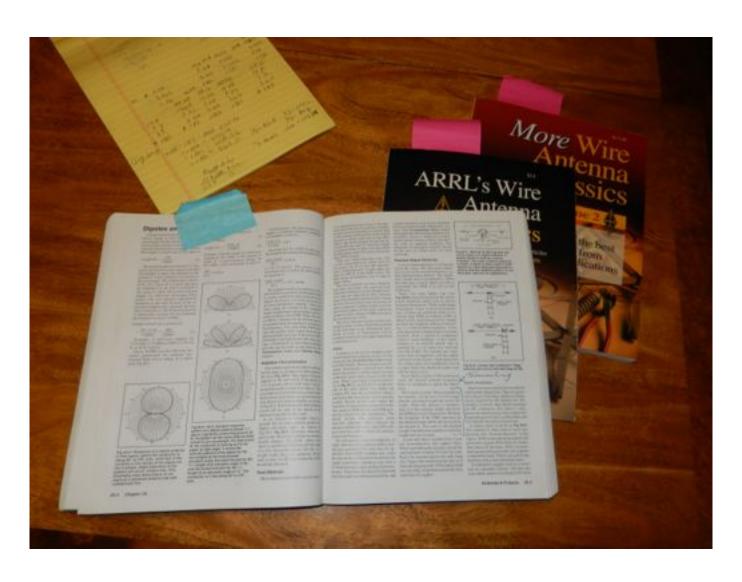
By

WT9Q

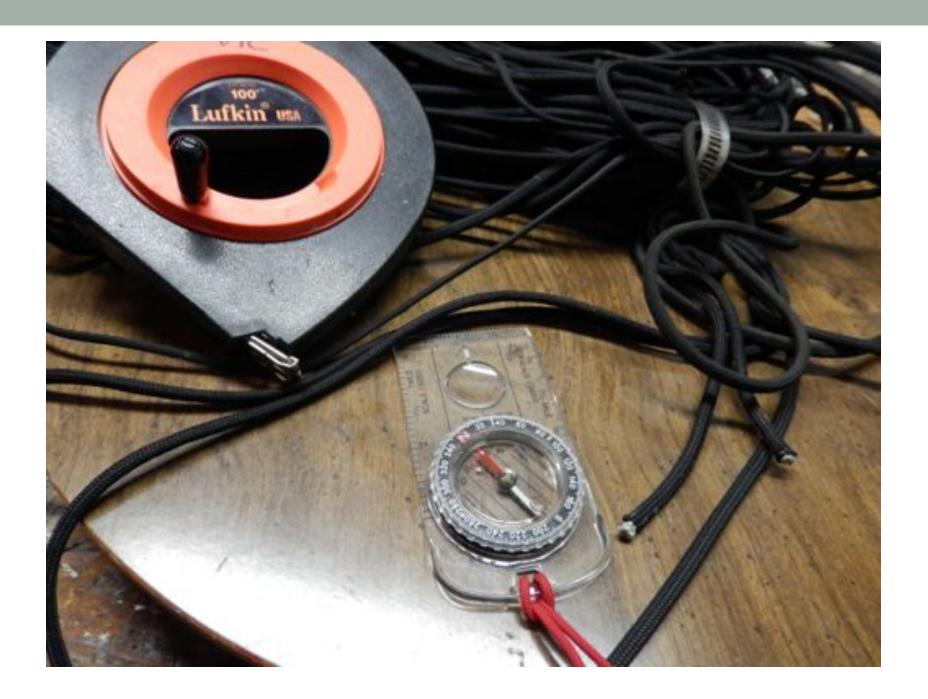
What is a Windom

- Designed in 1928 by Loren Windom W8GZ
- Multi-band wire antenna
- Dipole with one leg 1/3 and the other leg 2/3's long
- Fed with ladder line
- Carolina Windom fed with coax

Homework









166 feet is a long run

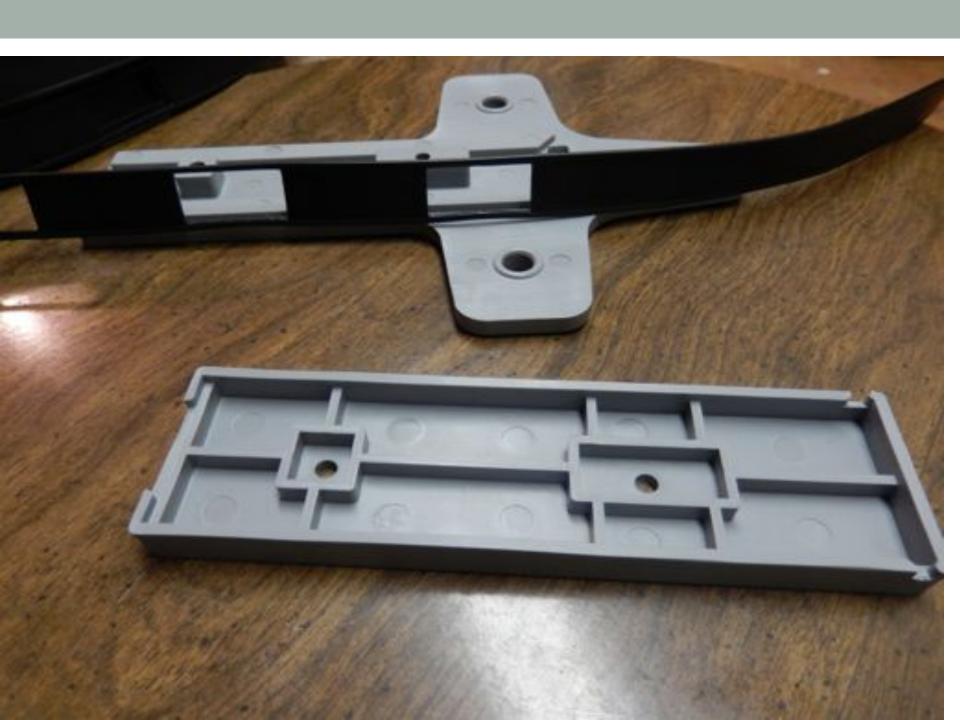


Ladder Loc, Pulley, Insulators, Thimbles



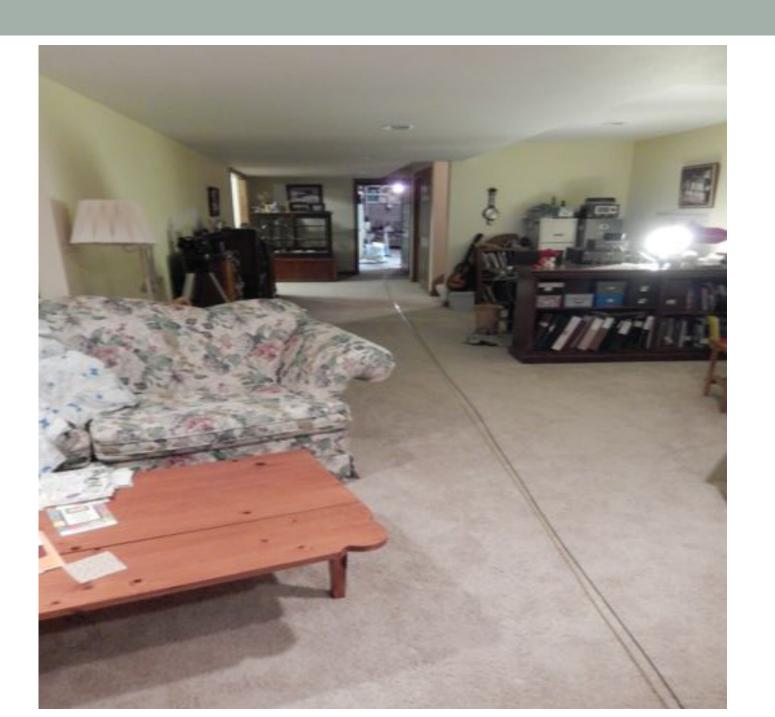
Start an Inventory













Pencil soldering iron won't do





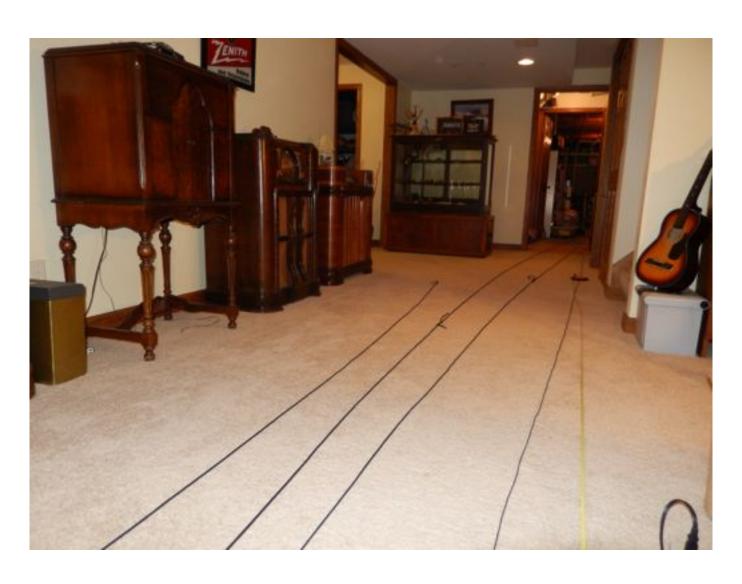


Use Super 88 because Dick said so-K9CAN





UV-resistant Dacron double weave



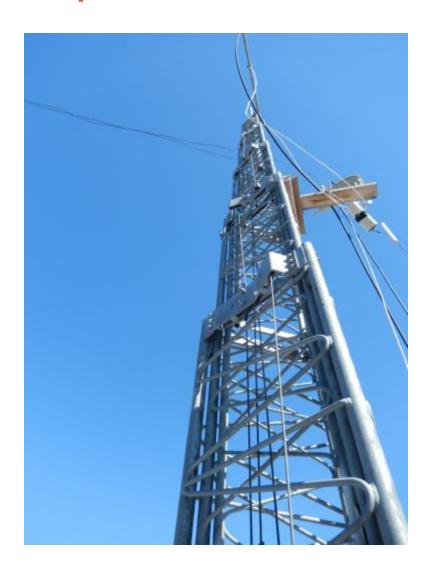
10 ft Sections of 1"Conduit







US Tower Corp TMM-541 SS Crank-up



Hard Hat Added



Extension ladder readily available?



Folded Dipole 10 Meter Contact





A Screen Shot









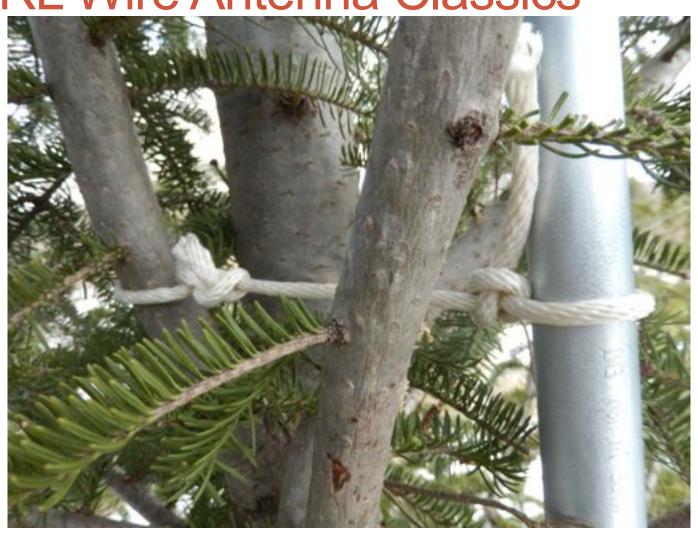


Support the weak spot





Our Friend the Tree ARRL Wire Antenna Classics



Clean Cut Broken Limbs



The Tree Will Heal Better



Coax Fed to Lower Level (basement)



Put a
Twist in
The
Ladder
Line



Attach totally biodegradable counter weight









Two Antennas Got Married

The ceremony wasn't much but the reception was great.

Center CW Band SWR

Band	Windom SWR	Folded SWR		
160 Meters	2.3	6		
80 Meters	2.5	1.5		
40 Meters	6.1	2.5		
30 Meters	3.1	1.4		
20 Meters	2.5	1.2		
17 Meters	6.1	1.5		
15 Meters	1.2	2		
12 Meters	2.1	1.2		
10 Meters	6	1.3		

Signal Reports

- Lot of 59 and 599 reports
- Comments on 160, 20, and 15 Meters
 - Good signal into X. Really good signal
 - Great signal tonight
 - Your 59. Very strong signal today
 - Few 59 plus reports
- Sometimes Answered on first call in pile ups

The Wireman Receipt-Davis wire

to \$10 New Window Tally			The Wireman, pdf - Adolle Keader				1419
	Quantity	Item Code	Description		Price Each	Amount	
	300 50 1 1 2 2	5000CQ531 5002553 8000805 8000810 8000890 8000800A FRESCRIT	SILKY 13 GA TECS 40% 450000M 18 GA 16STR, CCS LADQUIDLACK HQ-2 END INSULATORS (PR) 33F PULLEY SWIVEL SS THIMBLE PR PITS 14GA AND ABOVE SHIPPING CHARGES LPS Packago 1 Tracking #: 12714(19034540195)		0.28 0.60 14.59 2.33 3.65 1.00 21.81	84.00T 80.00T 84.95T 3.35T 7.30T 2.00T 21.81	
			Out-of-mite sale, exempt from sales tax		0.00%	0.00	
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				1	100000	000167	
			E-mail	7	Total	\$363.41	

Menards Receipt



Even Better If:

- Solve RFI Issue
- Stronger Tee Bar at Tower Top
 - Conduit is already bent
- Longer runs of Dacron rope
- Higher
 - Higher at center is possible
- Remote tuner at ladder line
 - Yaesu FT-920 built-in auto tuner doesn't meet todays standards
 - Fussy (rain, dew)
 - Slow
 - Limited memory