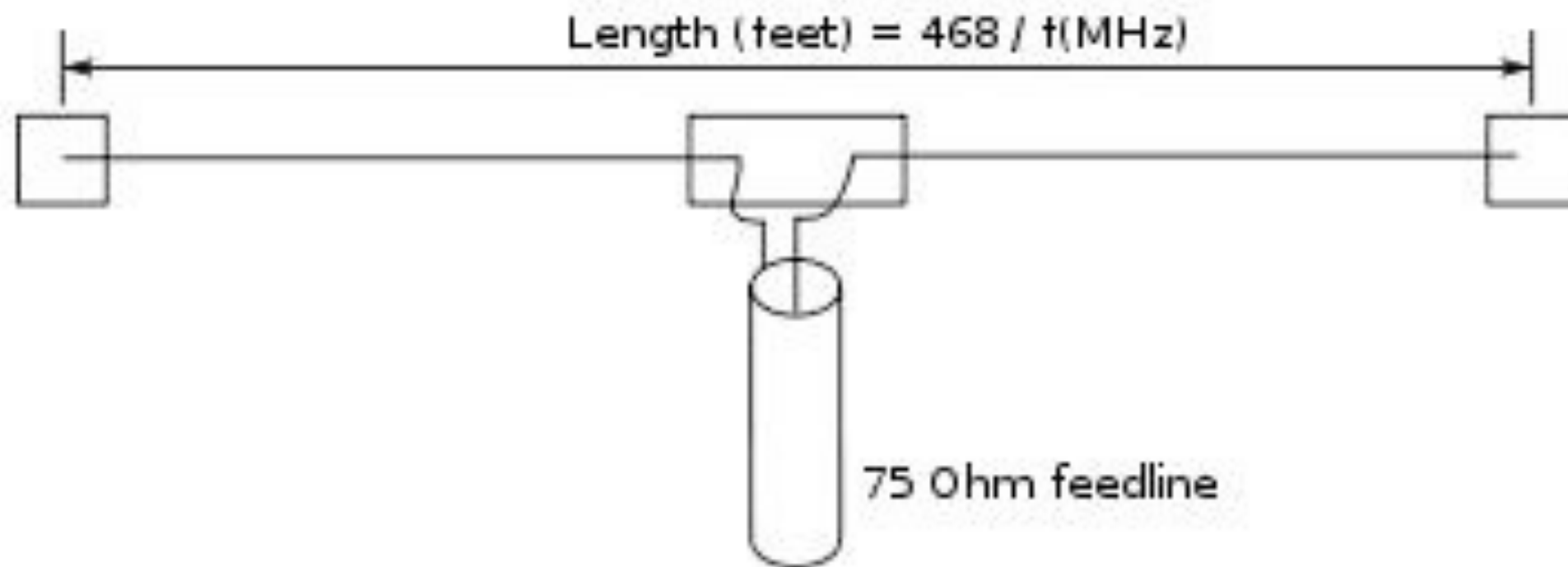




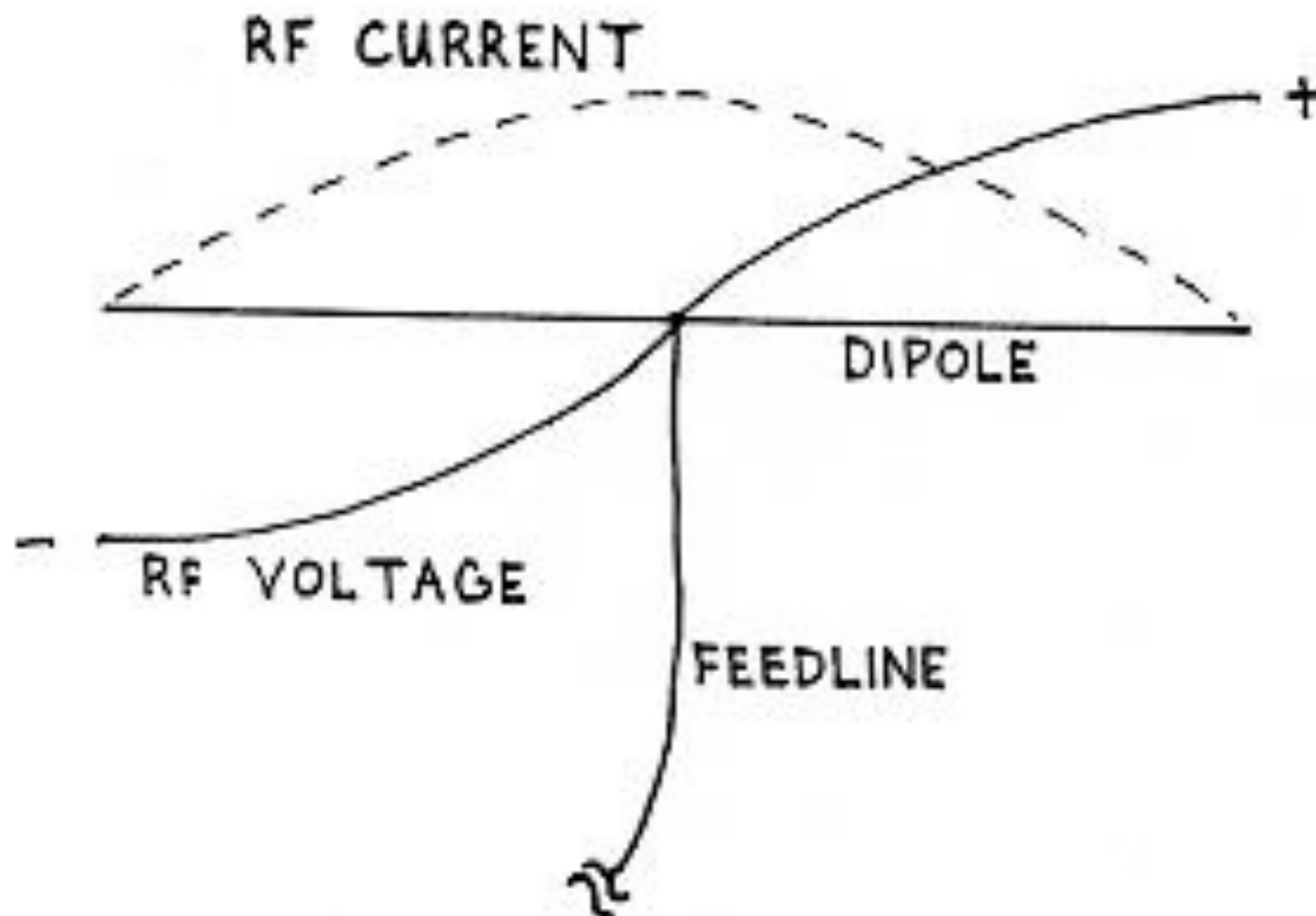
LE ANTENNE FILARI

Riccardo Rossi I5CDF

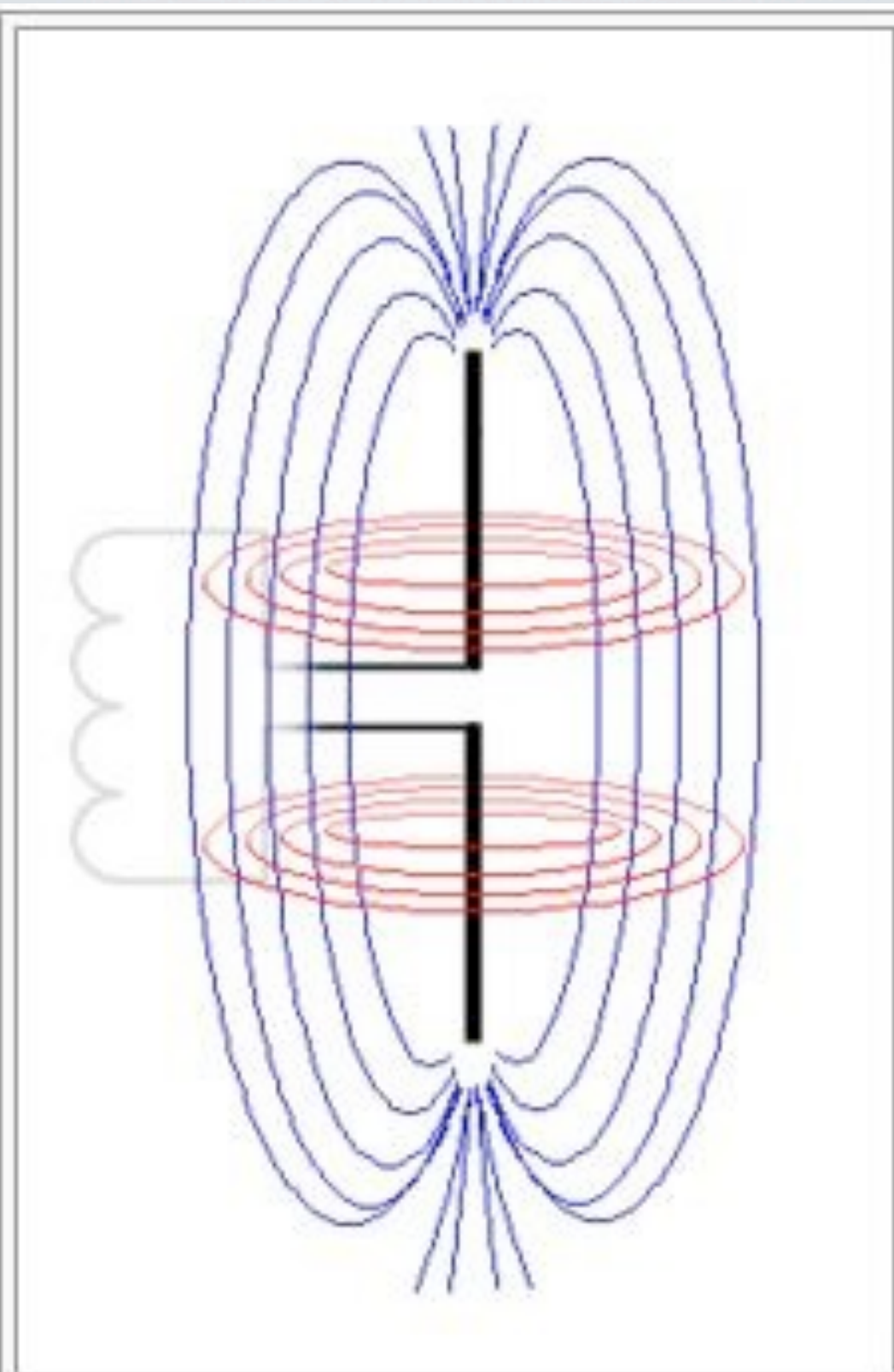


IL DIPOLO

Calcolo delle dimensioni



IL DIPOLO



Schema di un'antenna a dipolo, con in
campi elettrici (blu) e magnetici (rosso)



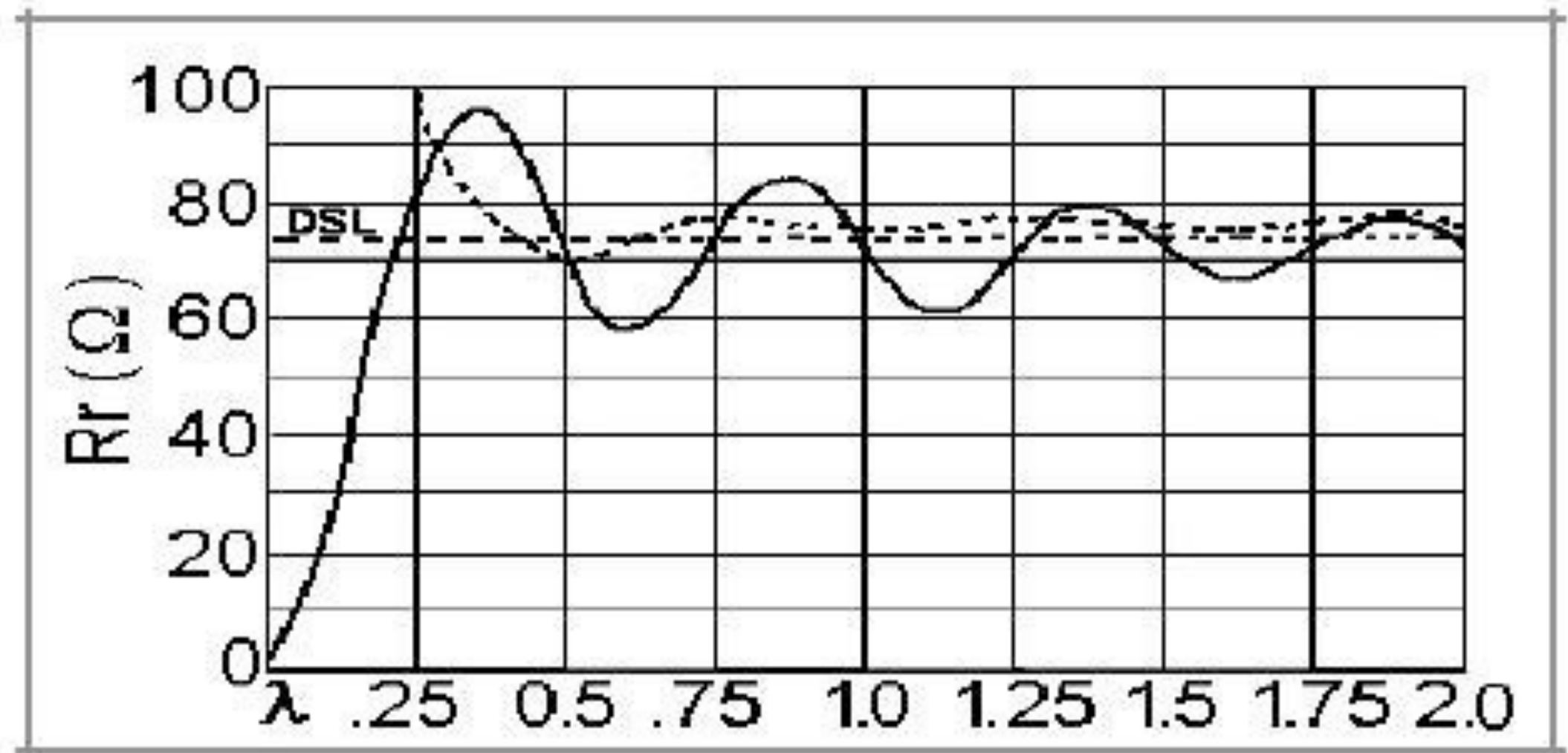
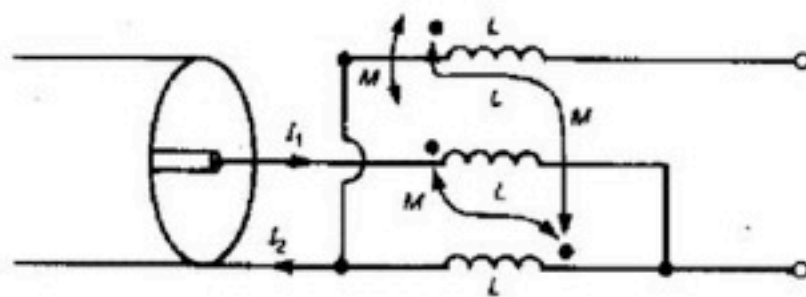
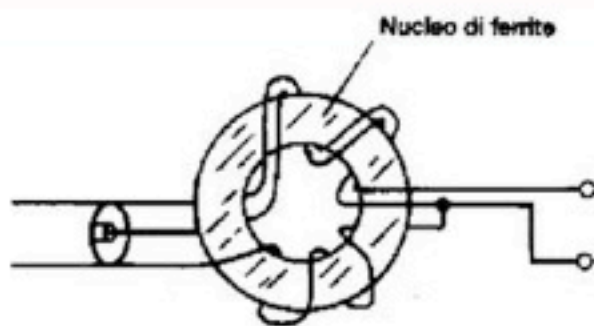
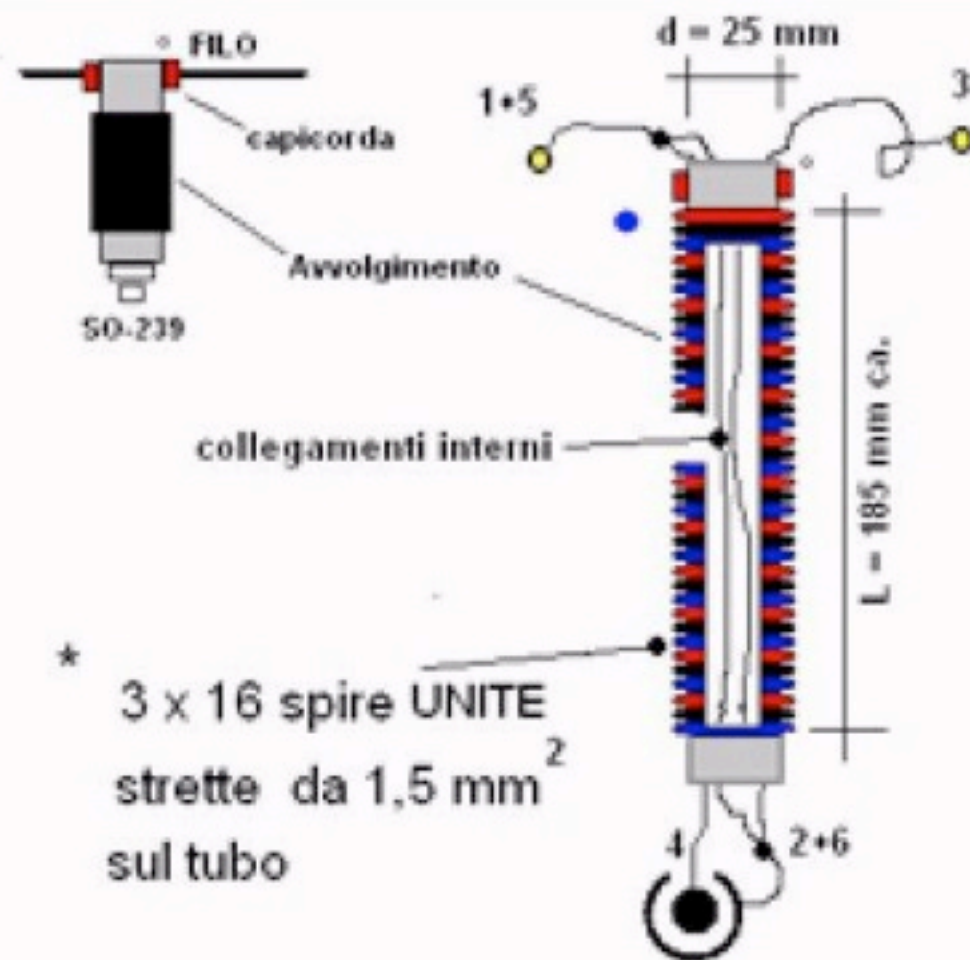


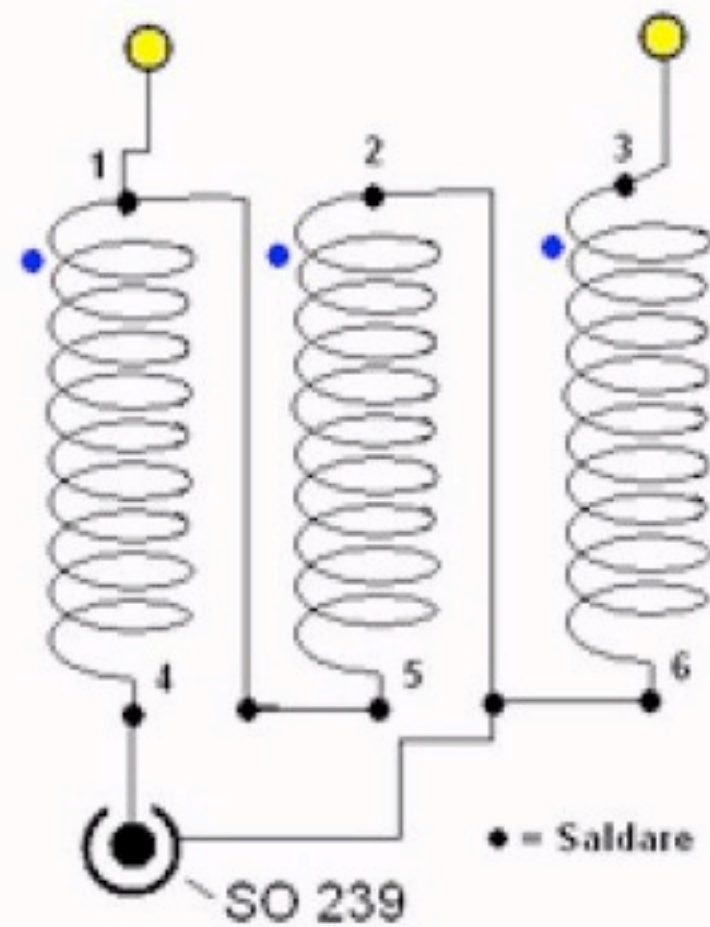
Tavola per determinare la R_r in un'antenna posta ad una certa altezza dal suolo.

La linea tratteggiata indicata con DSL si riferisce al dipolo nello spazio libero.

La curva a tratti è relativa ad antenne verticali, quella continua ad antenne orizzontali.

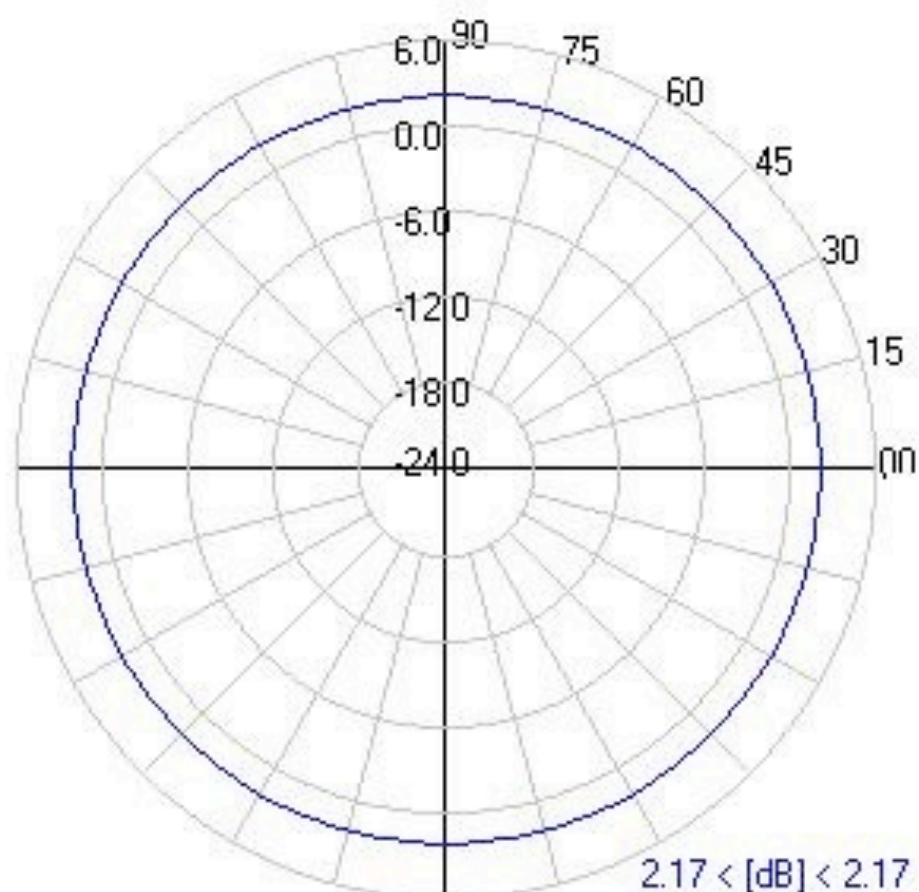
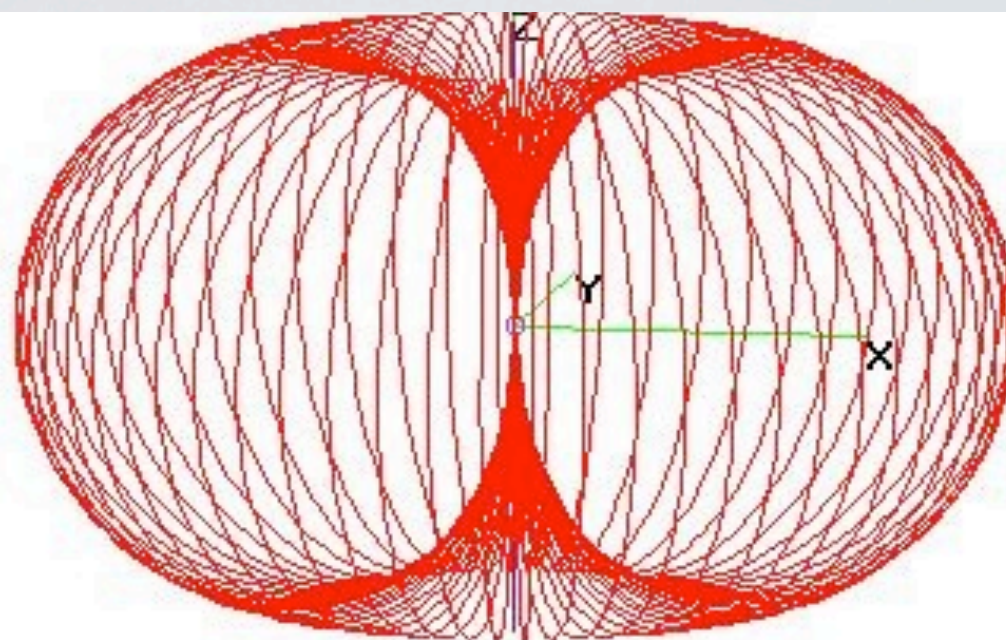


50 ohm Bilanciati

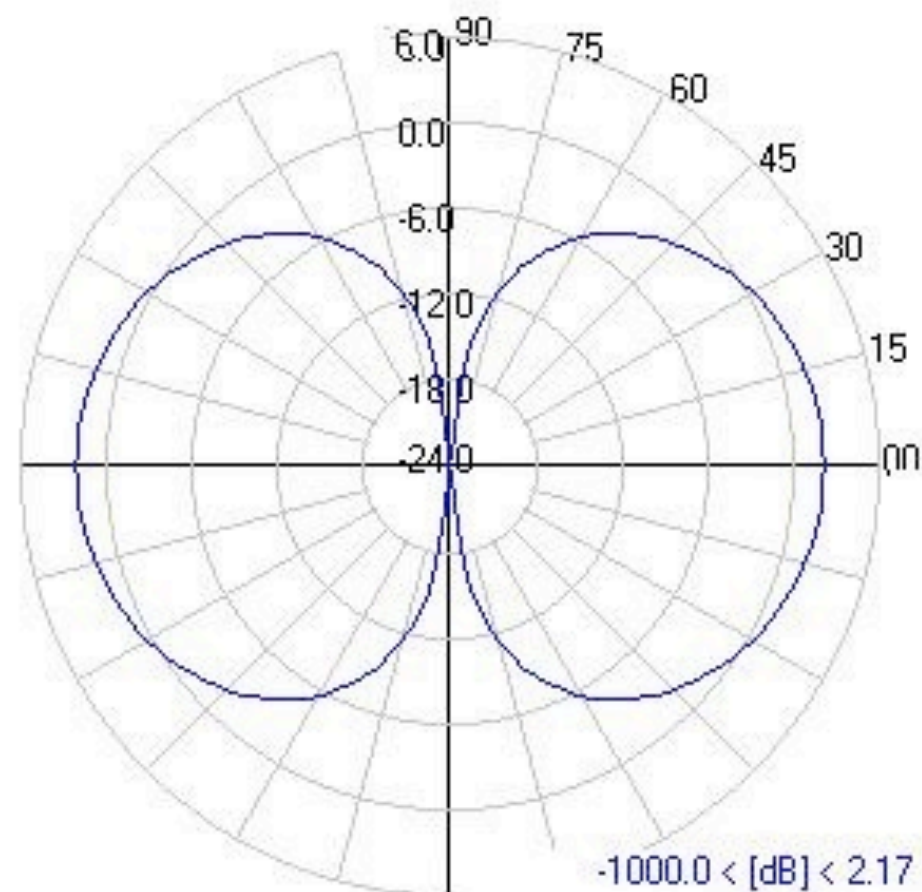


BALUN 1:1

BALUN 1:1



AZIMUTH



ELEVATION

DIPOLO VERTICALE

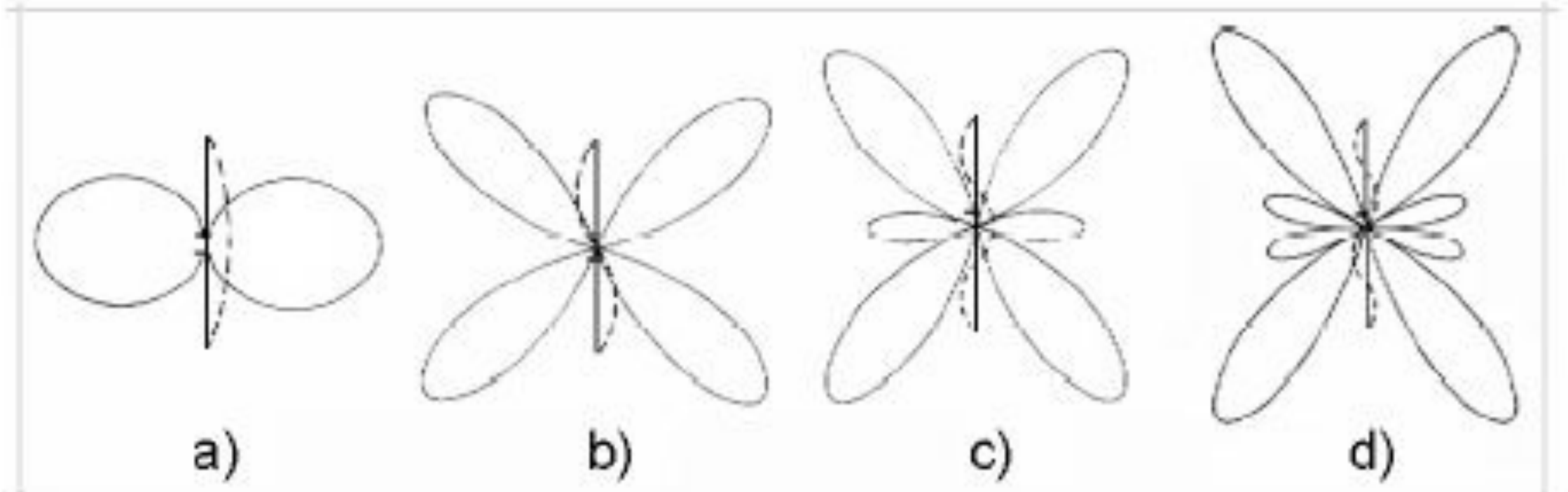
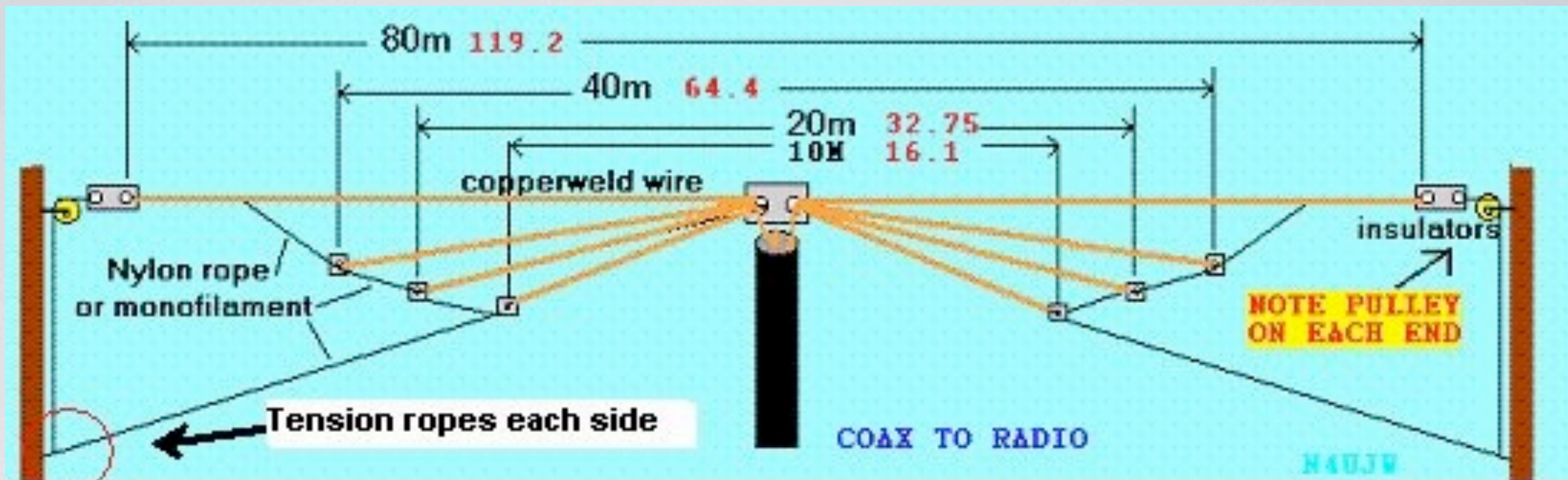


Diagramma di radiazione in campo per dipolo $\lambda/2$ (a), λ (b), $3\lambda/4$ (c), 2λ (d).

LE ARMONICHE



Tension rope is not tied to pulley rope in picture. It is tied near location of pulley rope down on supports within easy reach. It is tied last after final SWR adjustment and the antenna is in it's final position.

Suggested total lengths:

80 meters - 120 feet

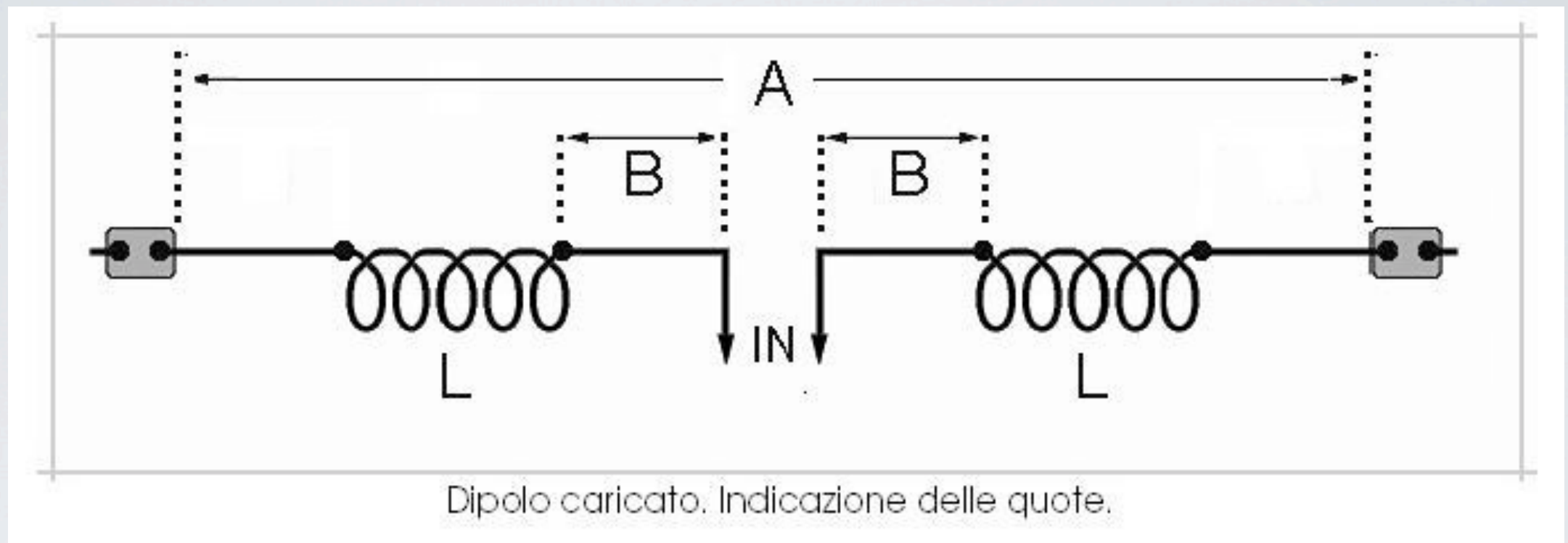
40 meters - 65 to 66 feet

20 meters - 34 feet

10 meters - 17 feet

These lengths are not exact. Some tuning may be required. Use the standard formula $468 / \text{freq mhz}$ for total feet for each band (freq) of interest. Adjust each length longer or shorter as needed.

DIPOLI A VENTAGLIO



DIPOLO ACCORCIATO

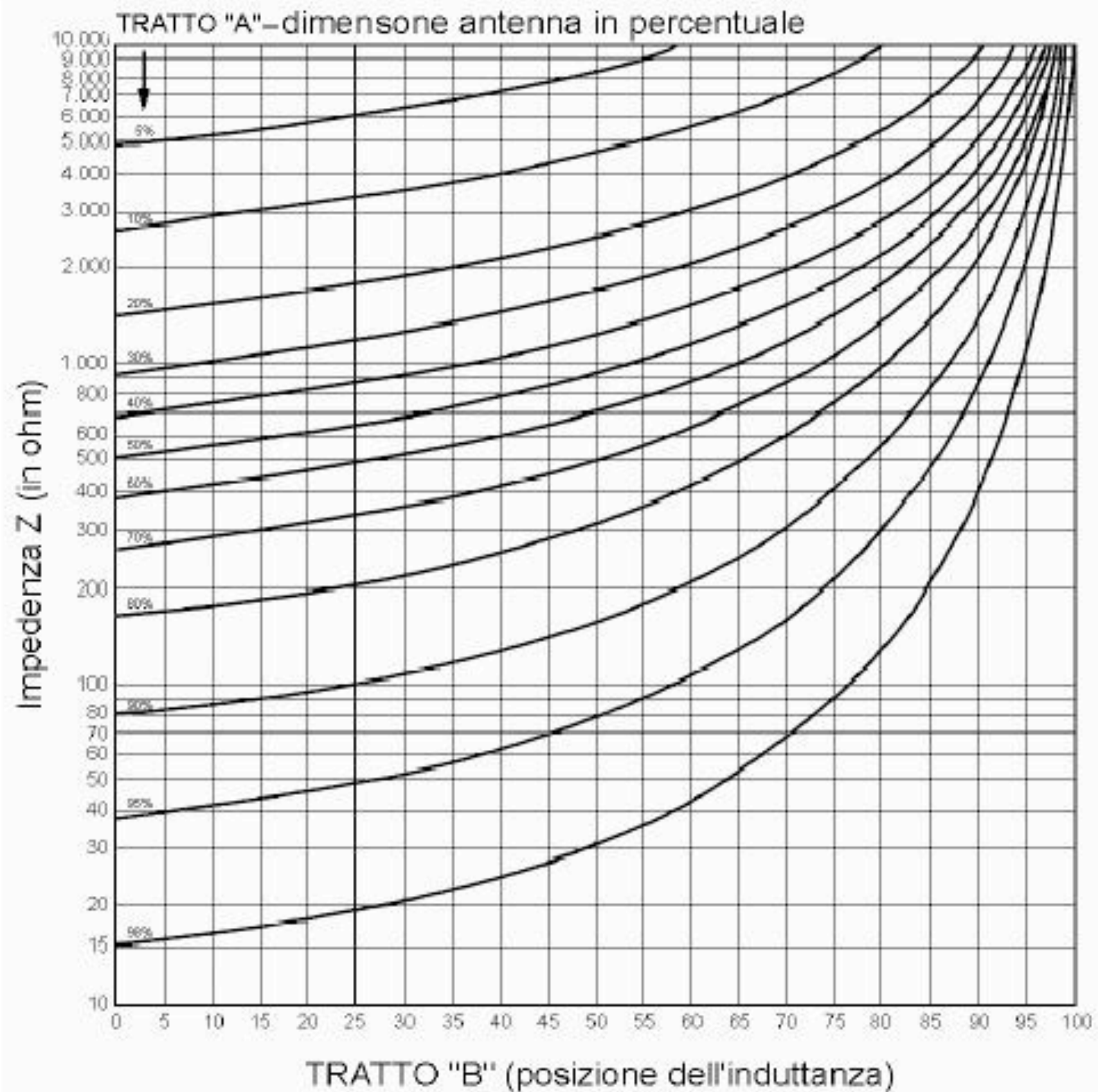


Tavola per determinare il valore approssimato dell'induttanza.

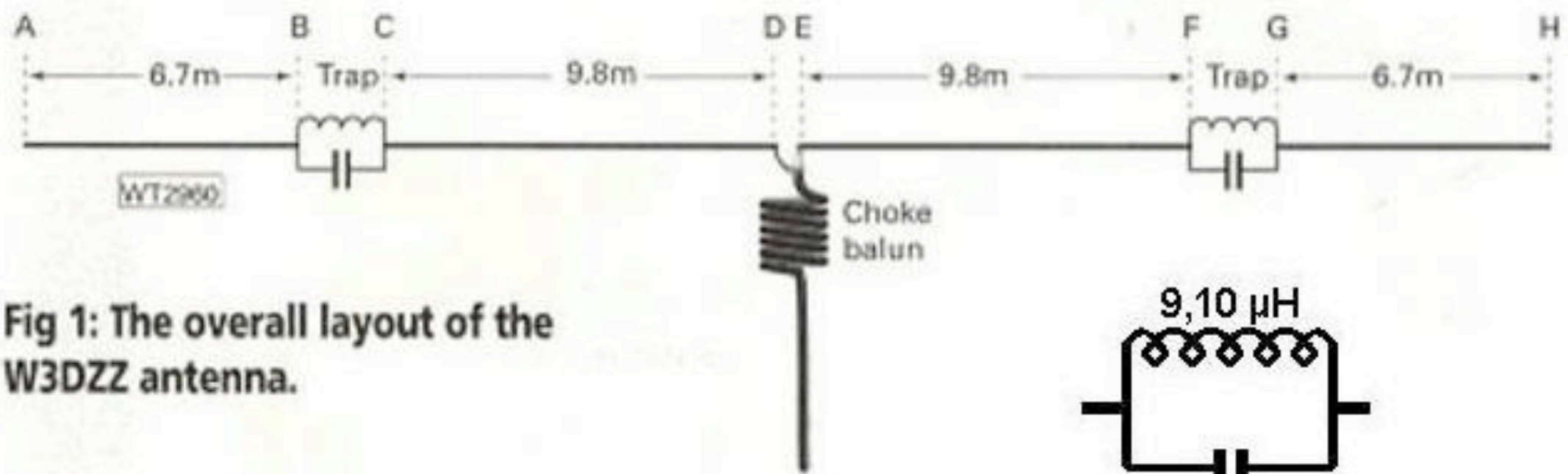
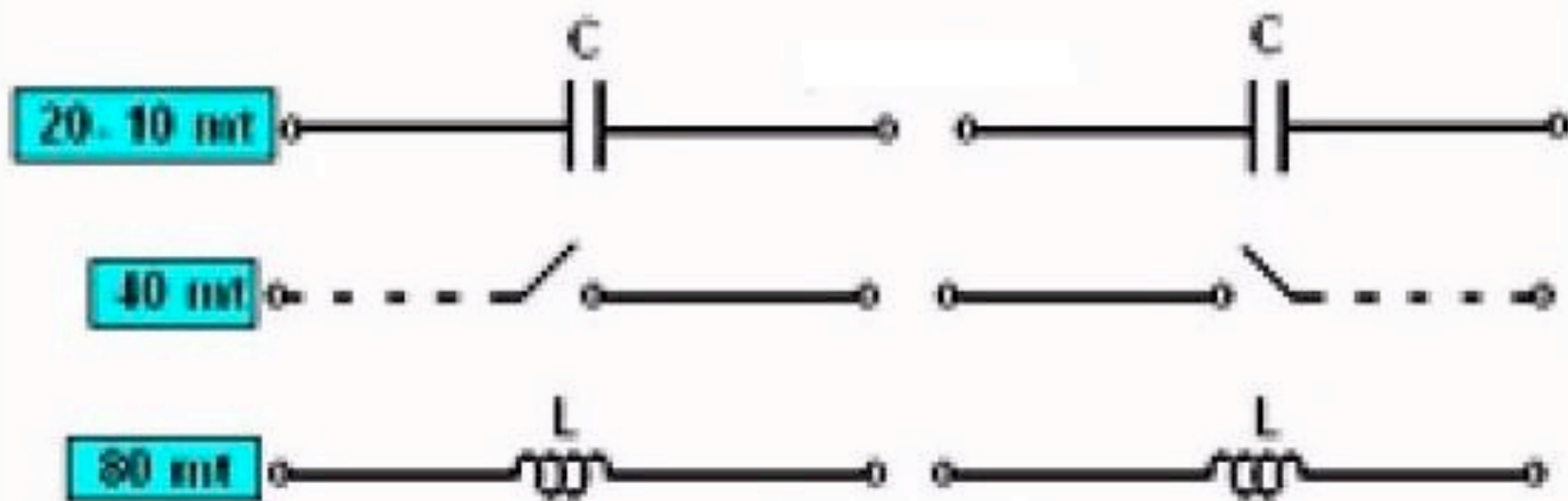


Fig 1: The overall layout of the W3DZZ antenna.



W3DZZ

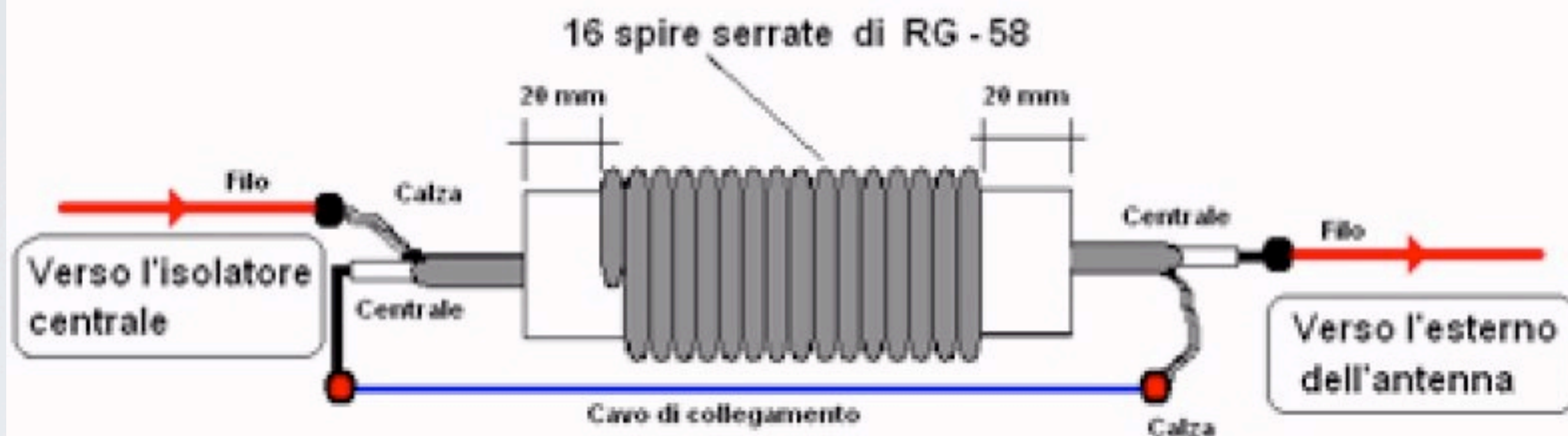
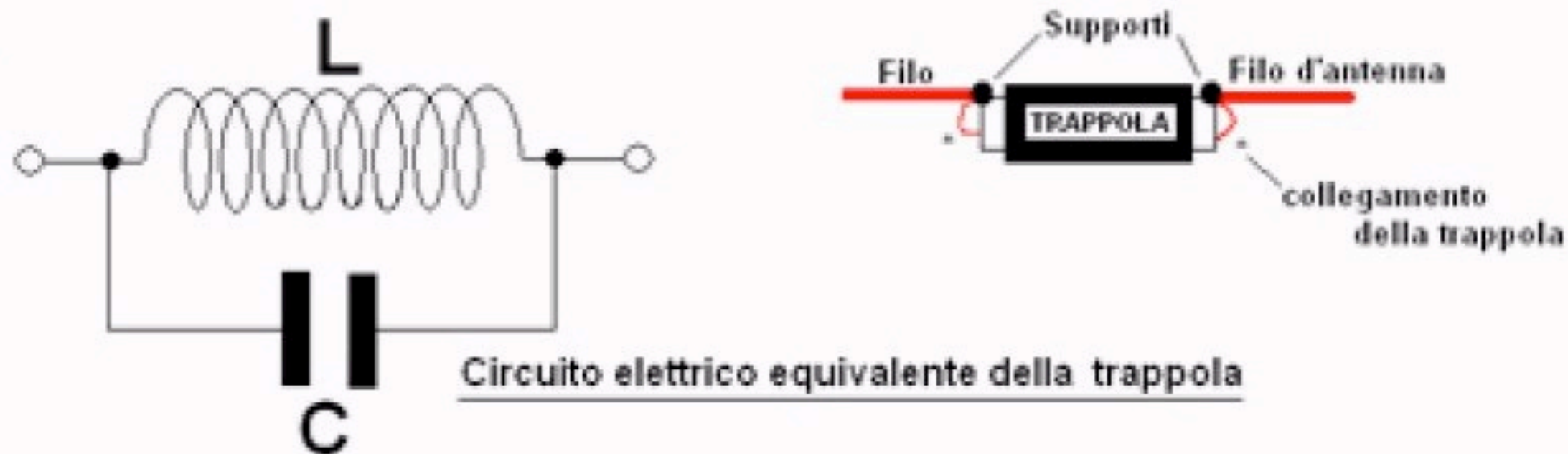
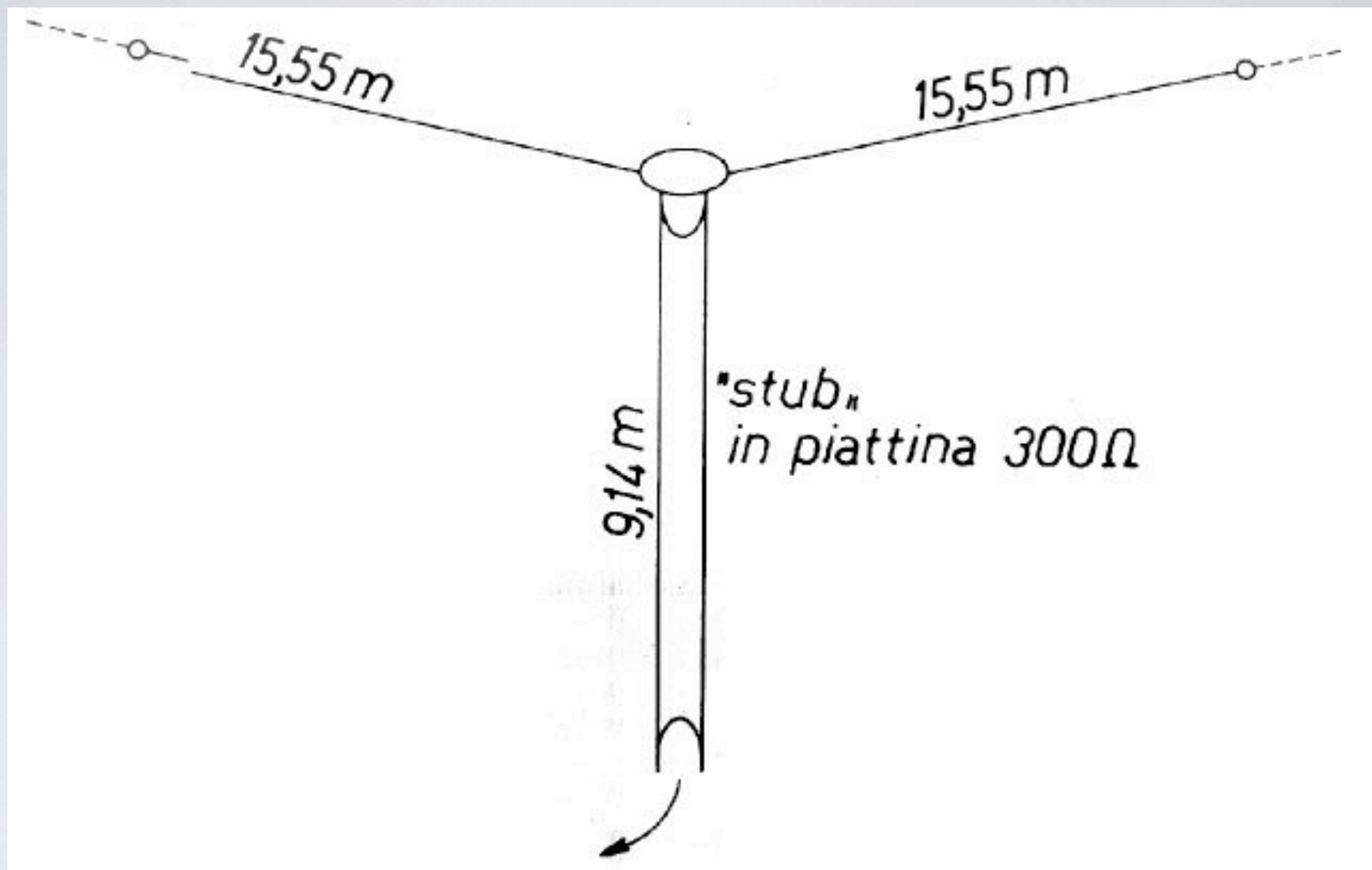


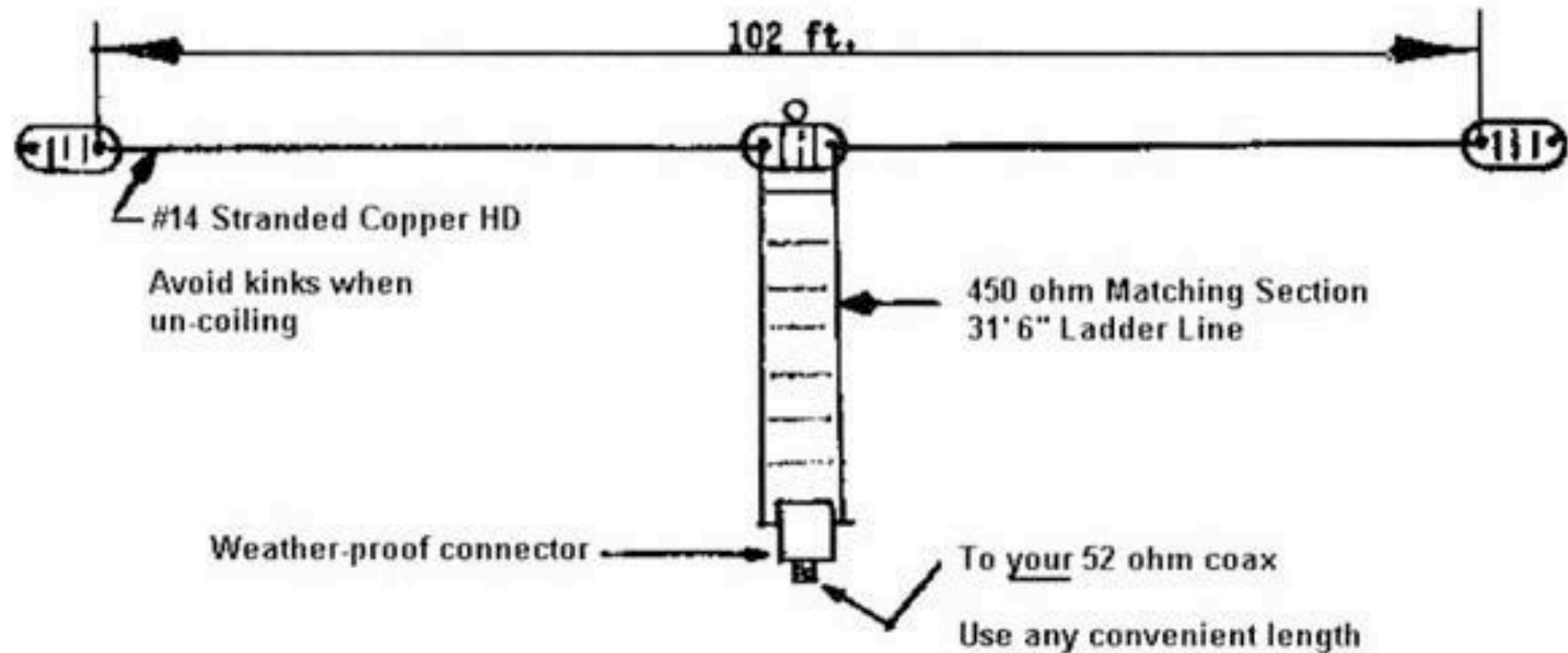
fig. 4 : la trappola coassiale .

TRAPPOLA PER W3DZZ



G5RV

The G5RV Multi-Band Antenna



The antenna can be erected as an inverted vee (120° minimum included angle).

A suitable antenna tuner will permit operation on all bands 80 through 10.

The G5RV functions as follows:

3.5/4.0 MHzA half-wave dipole folded up at the center.

7.0/10 MHzA colinear array with two half-waves fed in-phase.

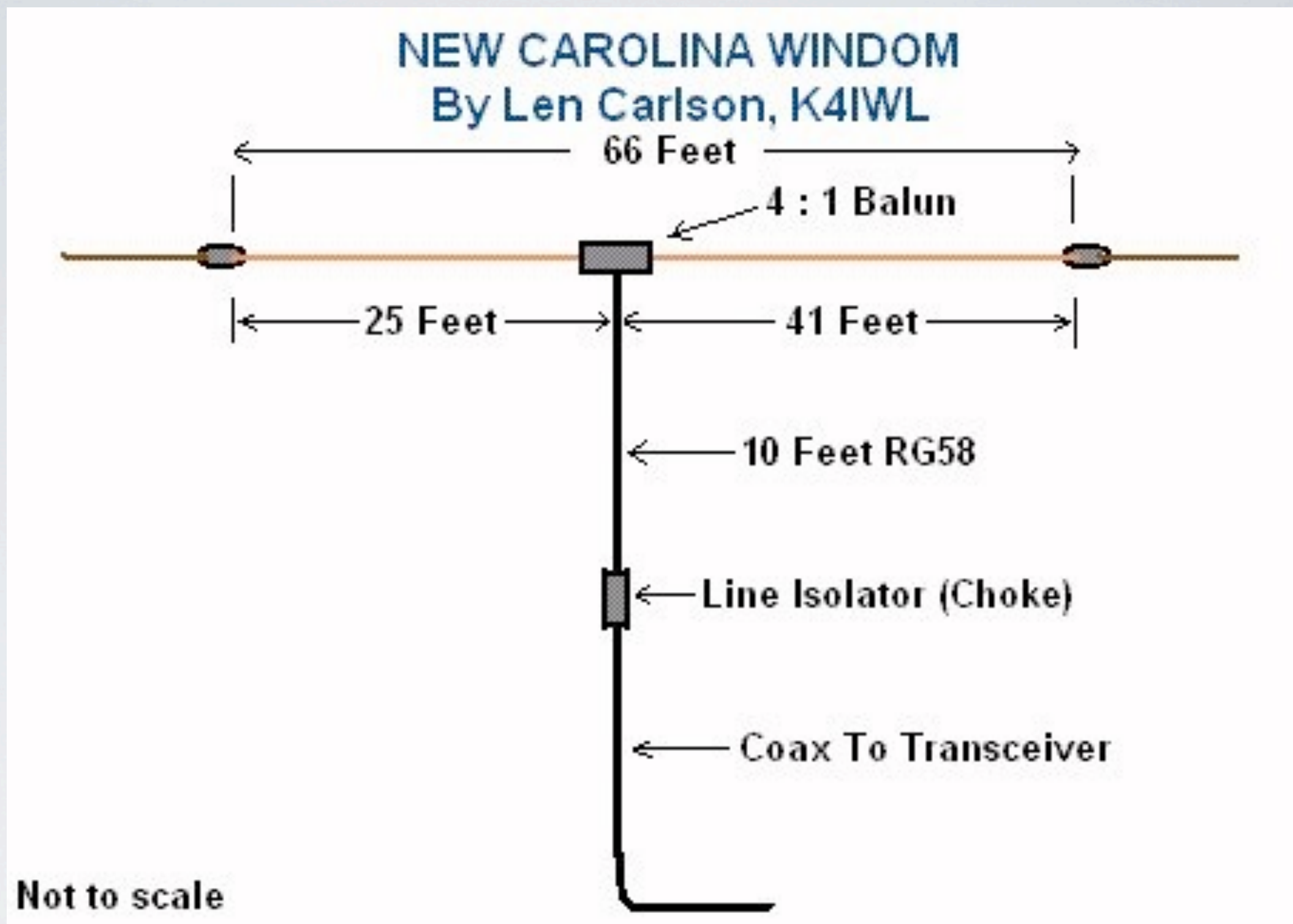
14 MHzA center-fed long wire of 3 half-waves fed out-of-phase.

18 MHzTwo full-wave antennas fed in-phase.

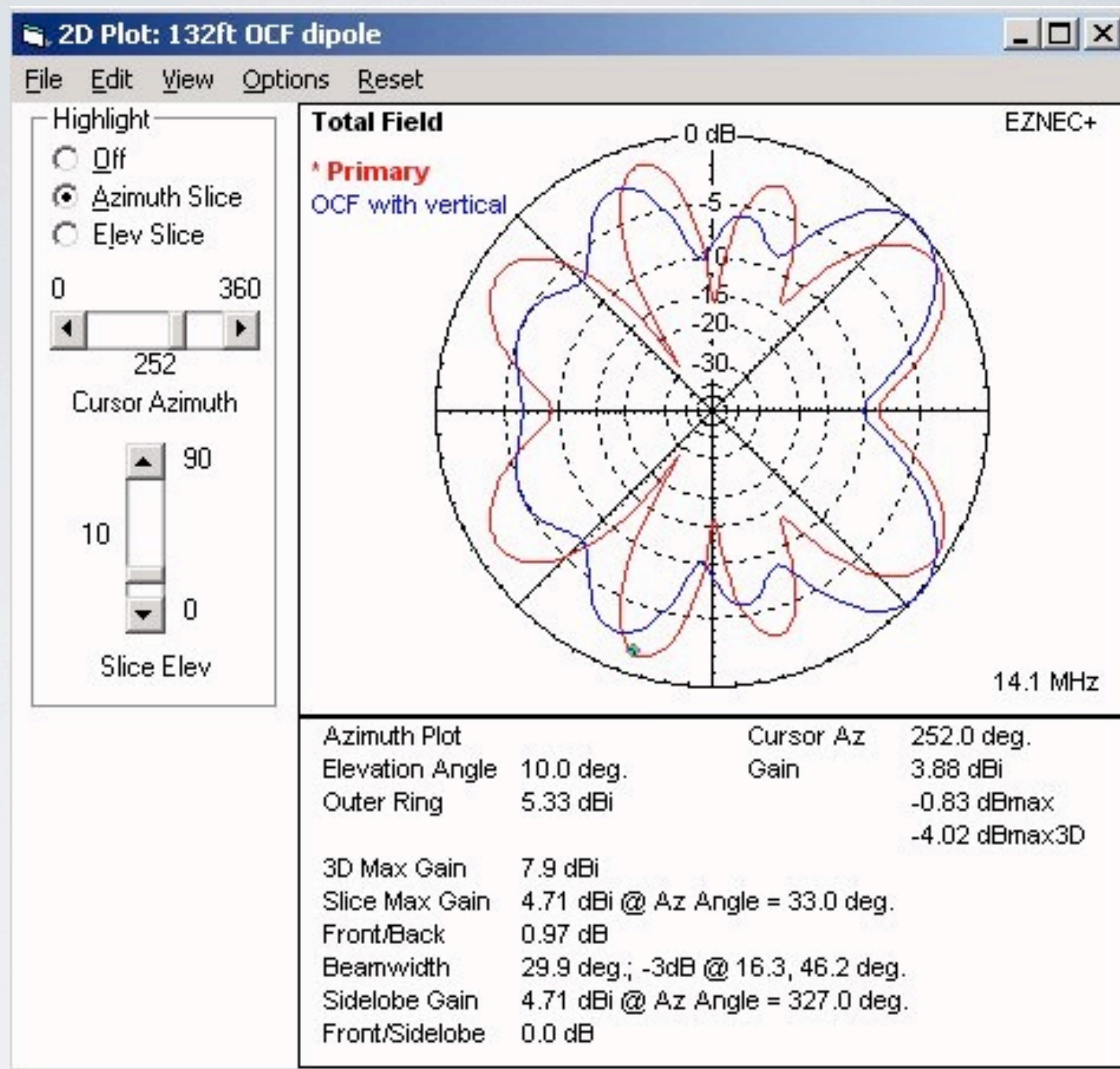
21/24 MHzA 5 half-wave long wire.

28 MHzTwo long-wire antennas, each 3 half-waves, fed in-phase.

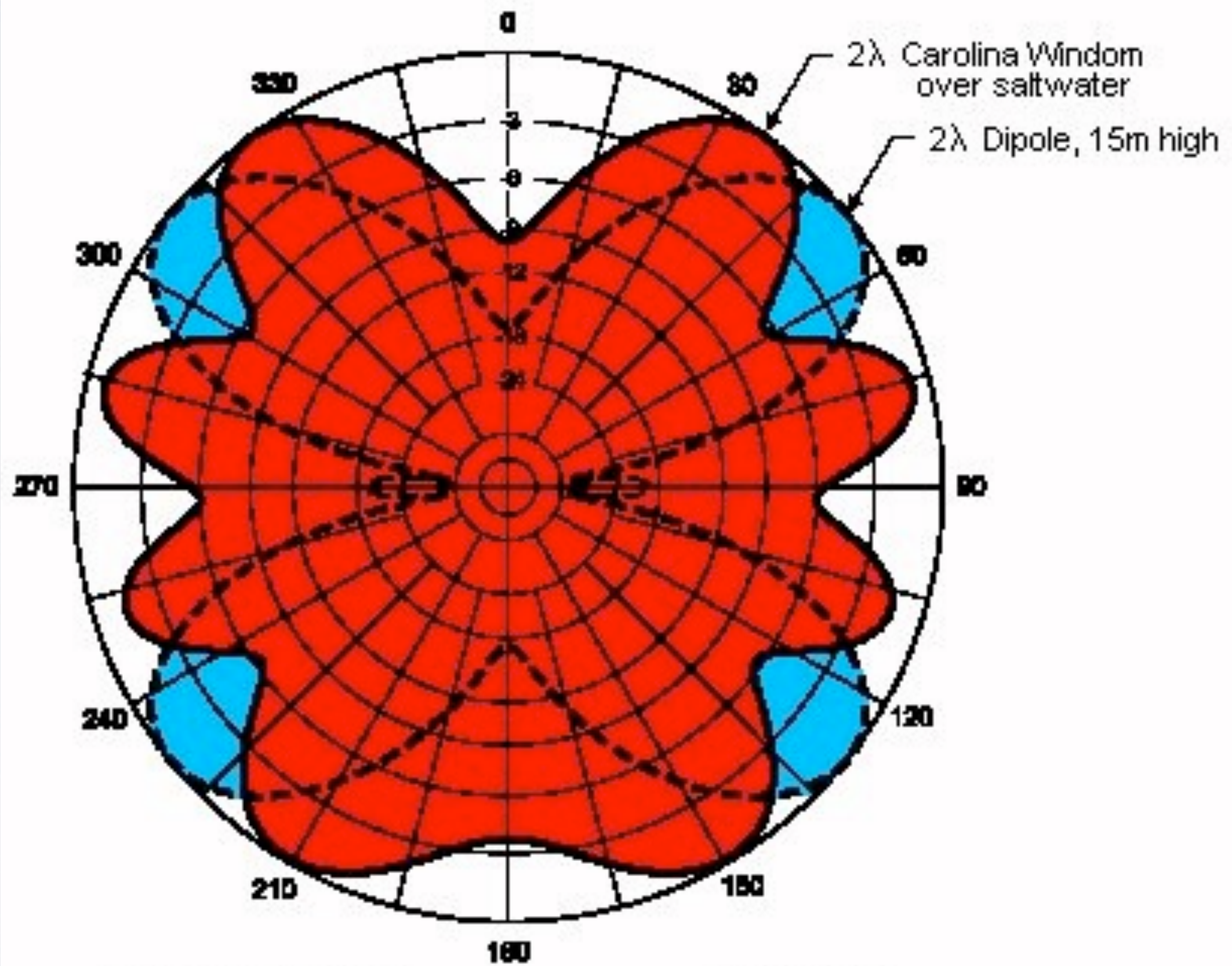
G5RV Originale

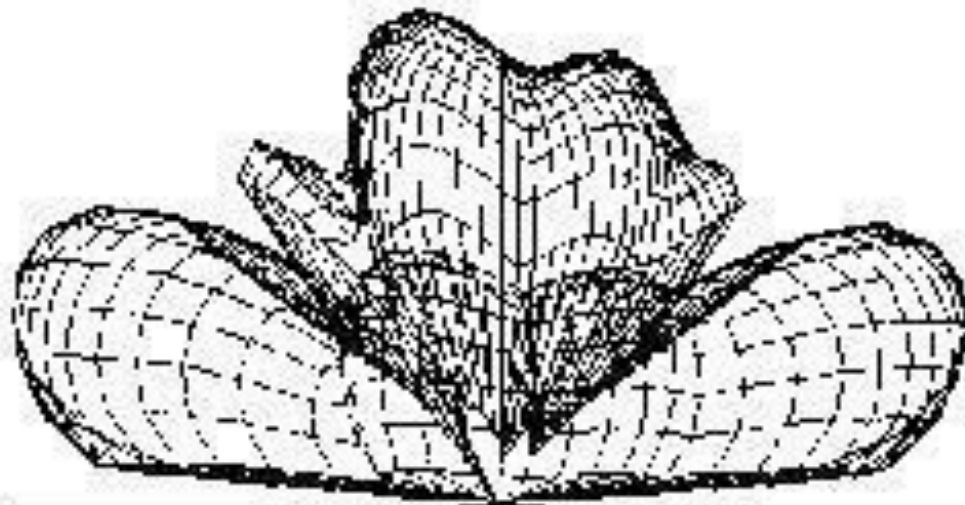


CAROLINA WINDOM

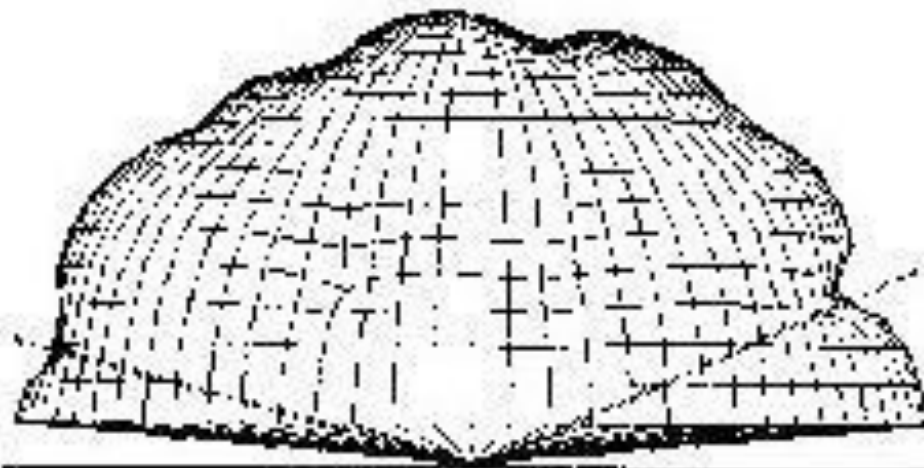


Carolina Windom Diagramma





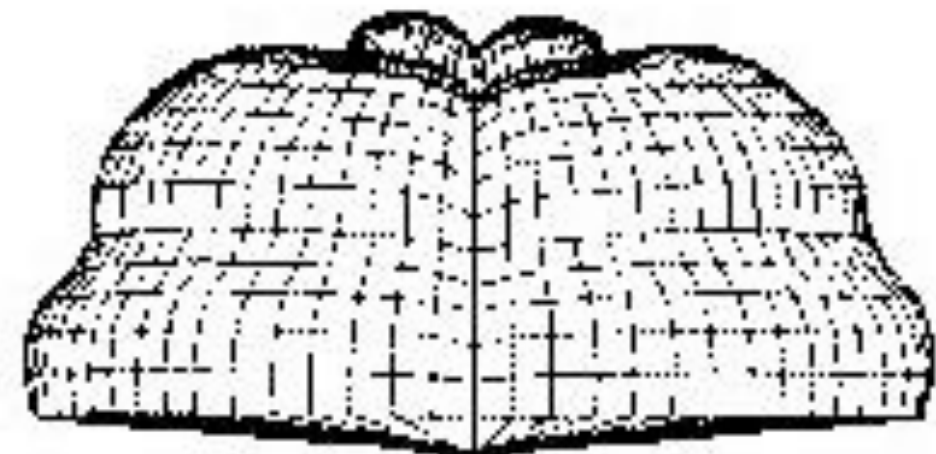
CAROLINA WINDOM 80
14 MHz broadside pattern
No Vertical Radiator



CAROLINA WINDOM 80
14 MHz broadside radiation pattern
With operating Vertical Radiator



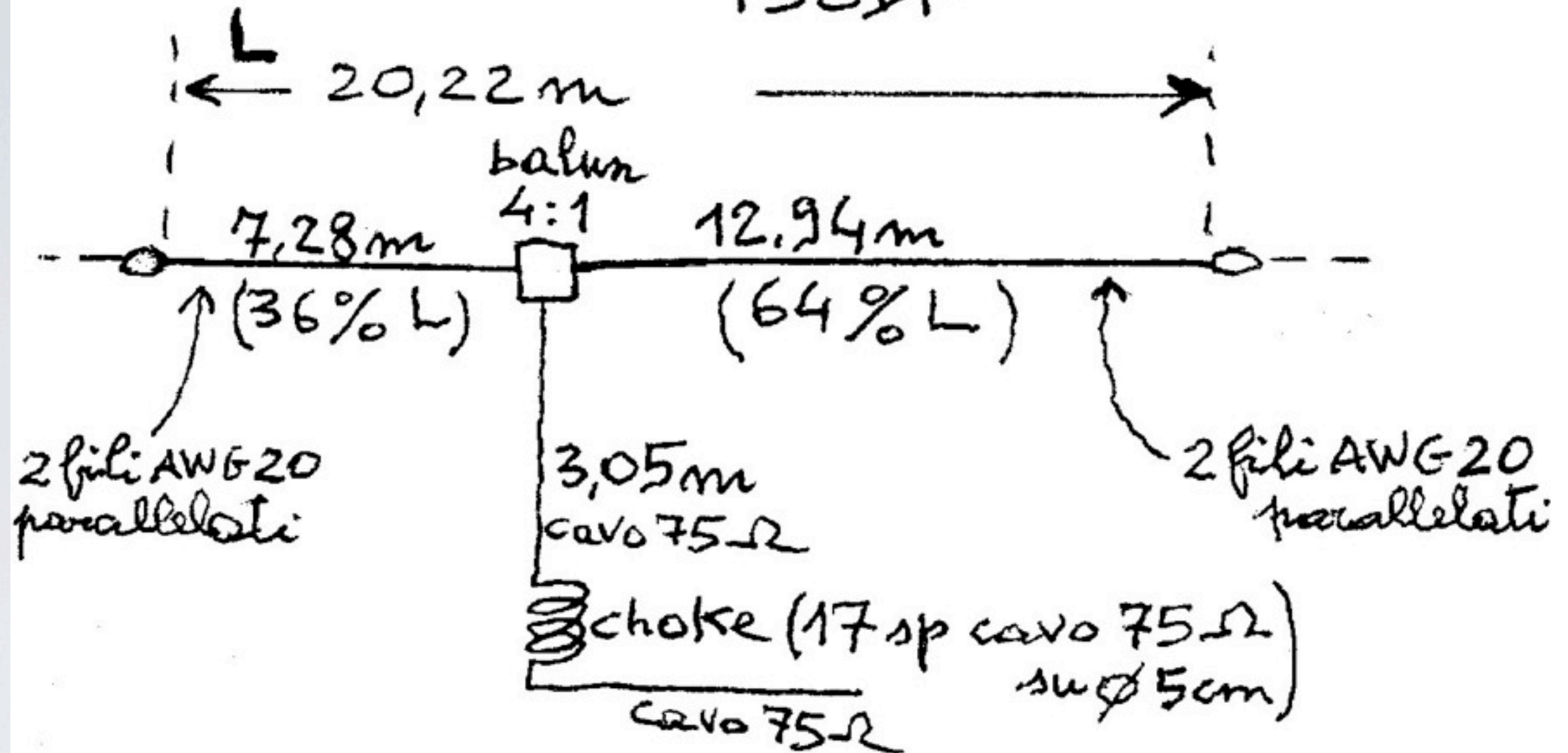
CAROLINA WINDOM 80 on 15 m
with Vertical Radiator removed.



CAROLINA WINDOM on 15 m with
operating VERTICAL RADIATOR

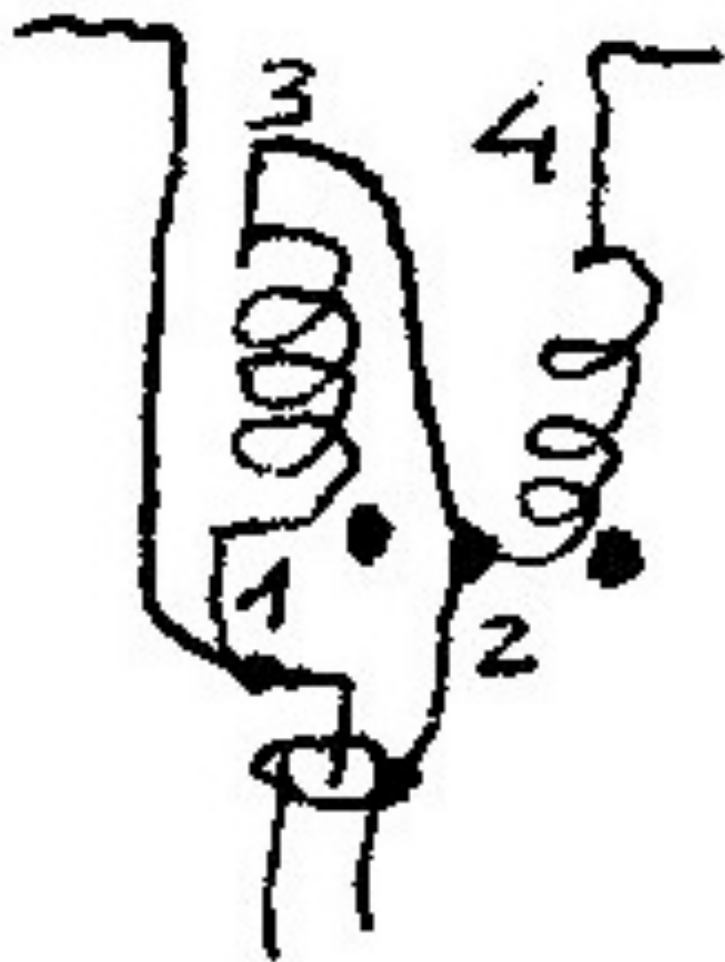
Carolina Windom

CAROLINA WINDOM 40-20-10m 15CDF

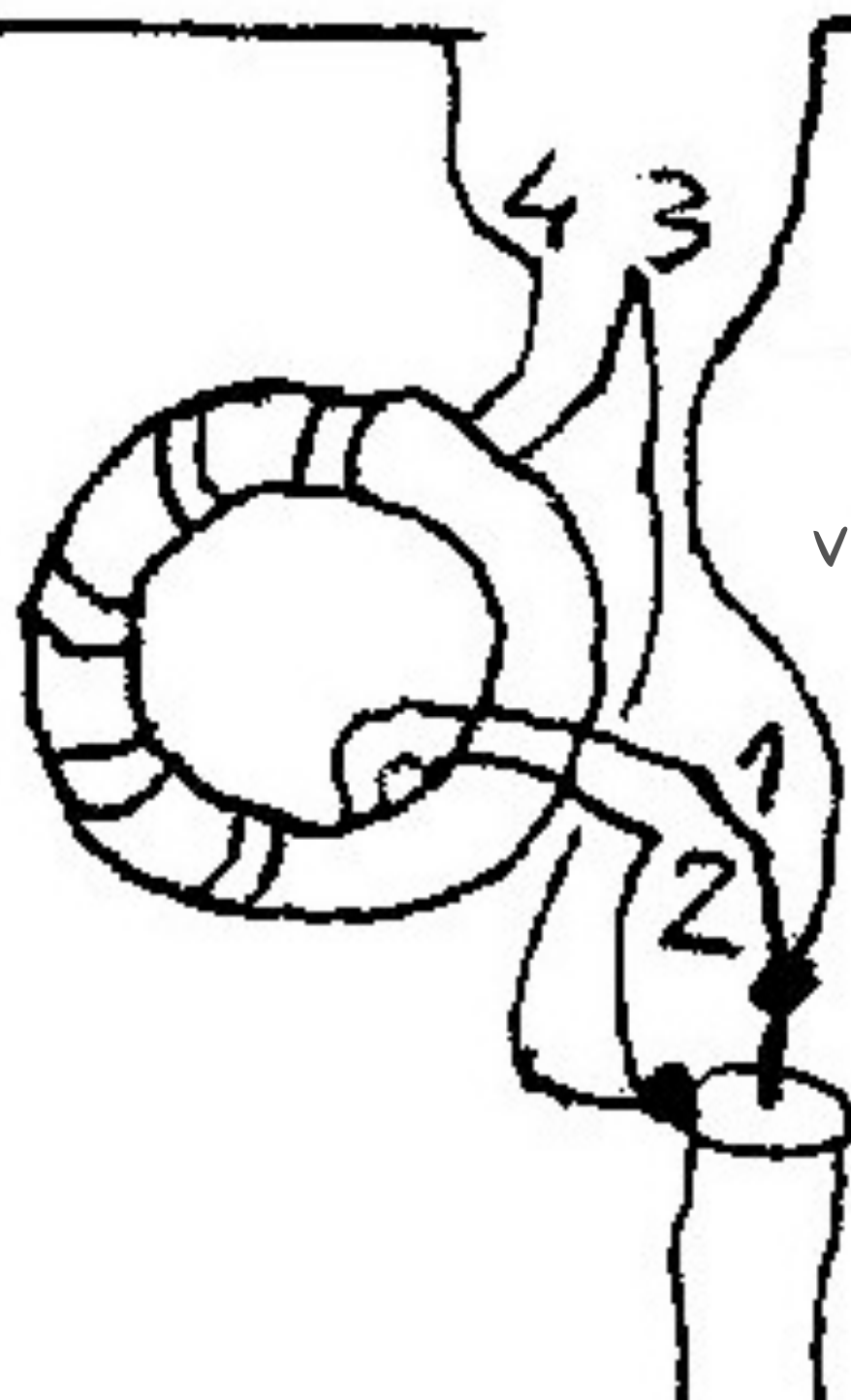


CAROLINA WINDOM

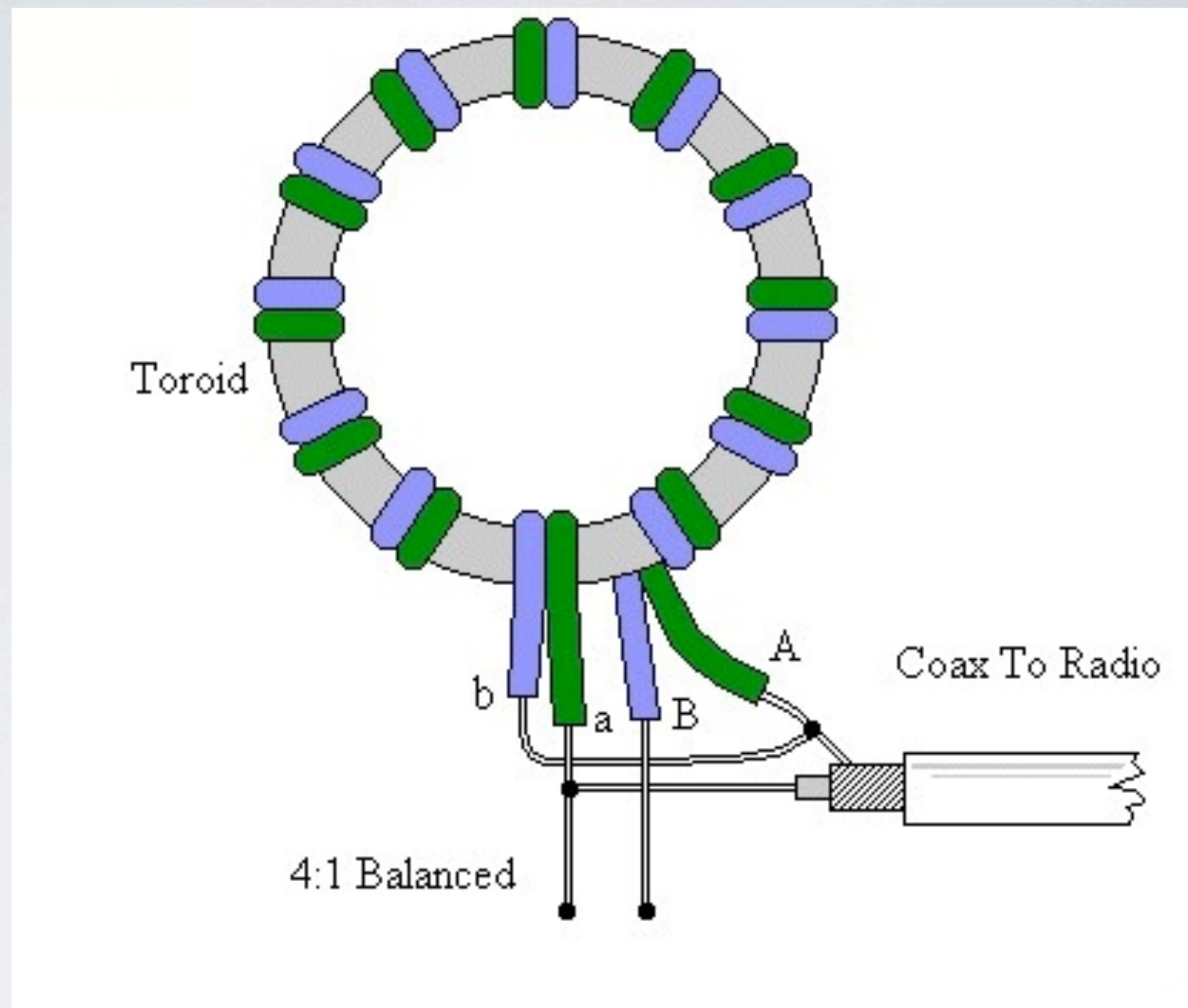
by 15CDF



Balun 4:1
15CDF



14 spire bifilari
AWG20
su nucleo Ferrite
viola Indiana General
simile al modello
AMIDON T130-2
rosso

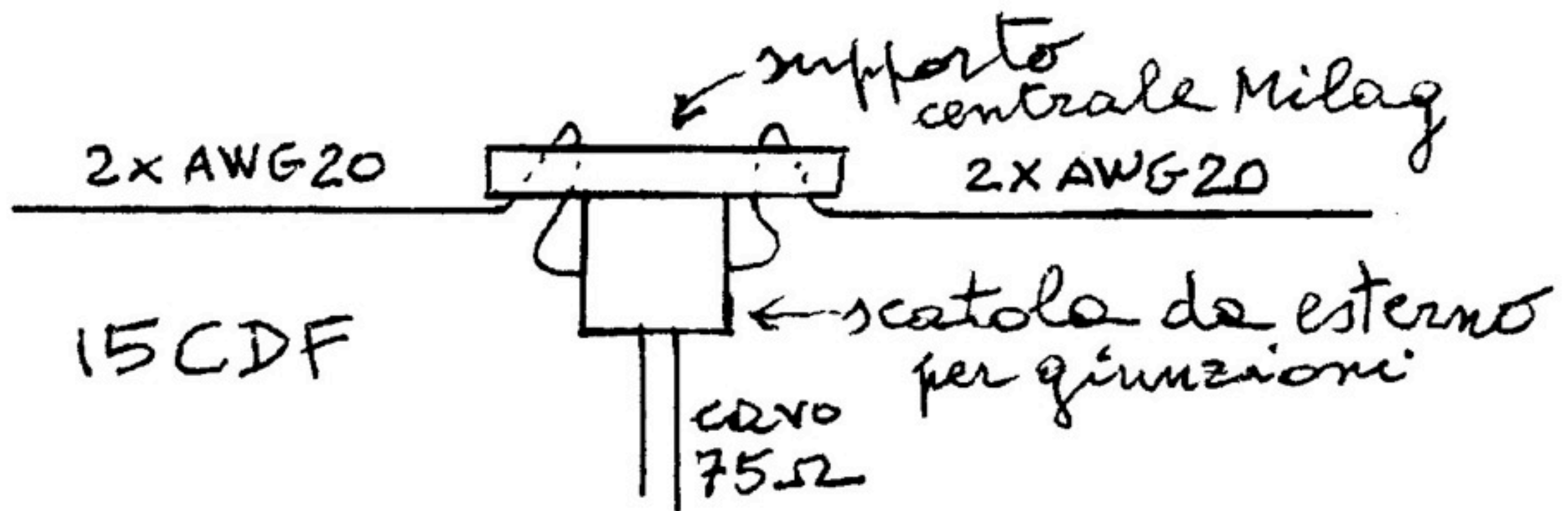


BALUN 4:1



BALUN 4:1

by IW5EDI



CAROLINA WINDOM

By 15CDF

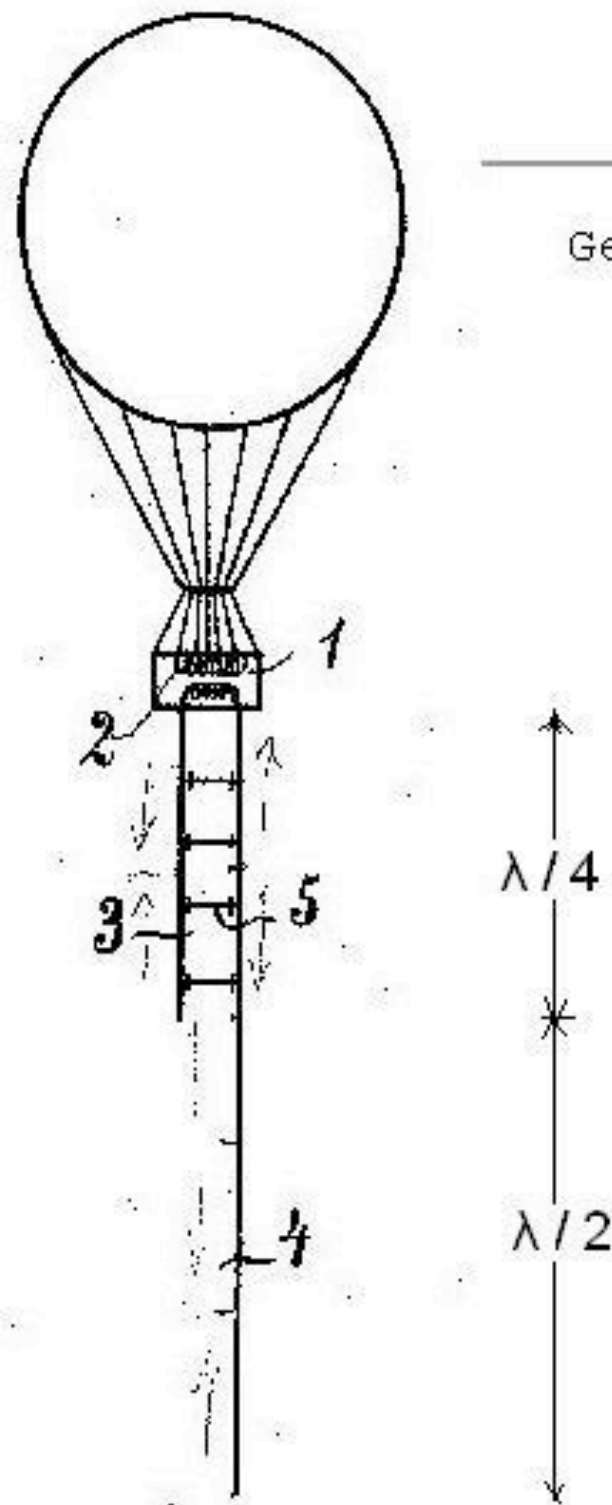
Zeppelin Antenna

German Patent Number: 225204

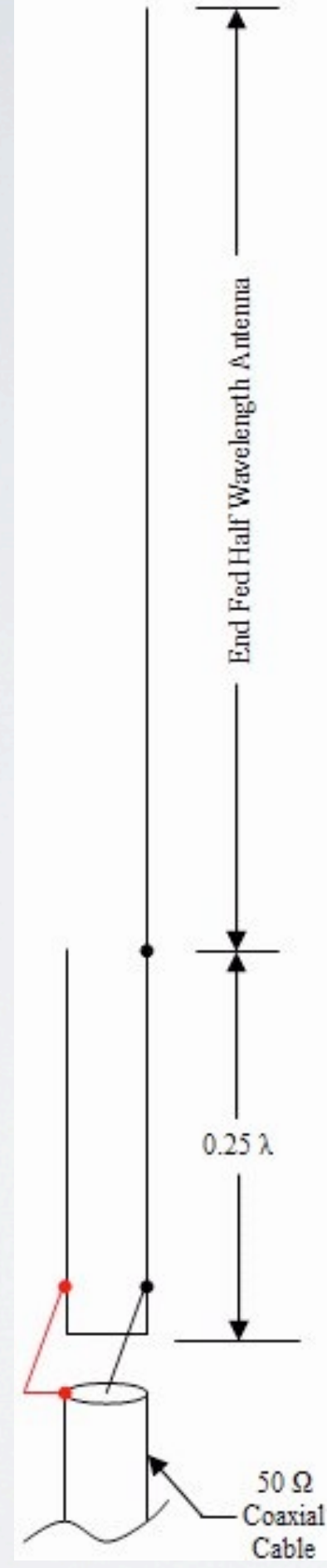
Year: 1909

Inventor: Hans Beggerow

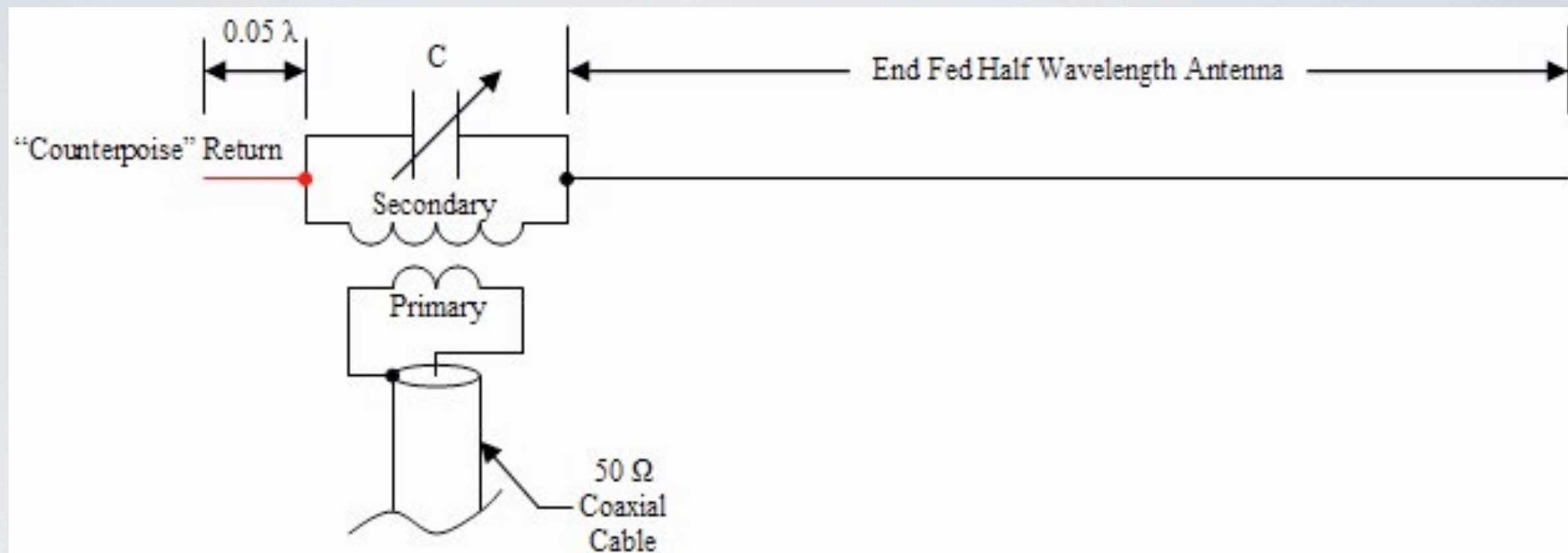
Original Document: German Patent Number
225204



ZEPPELIN 1909



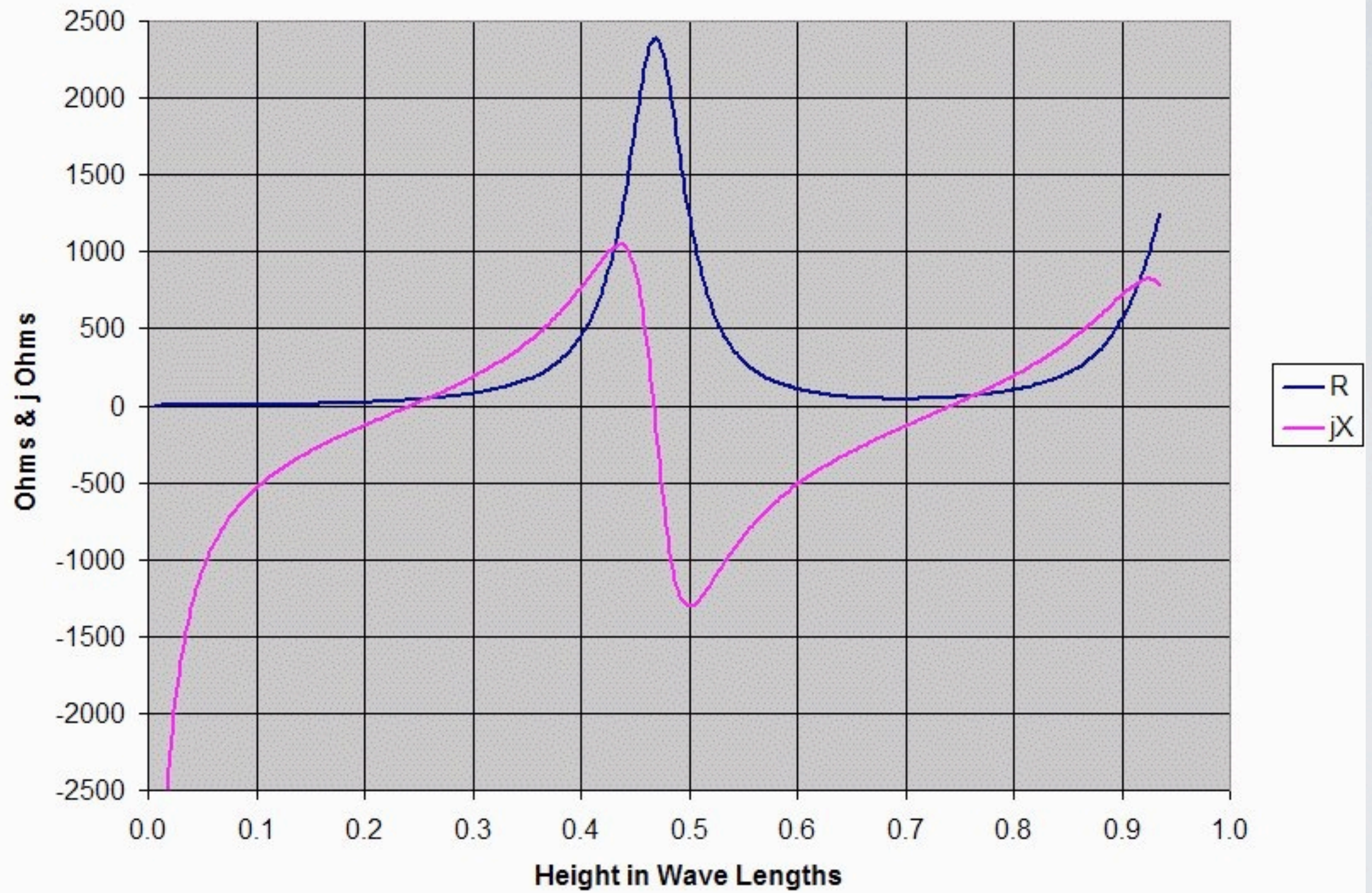
J-POLE

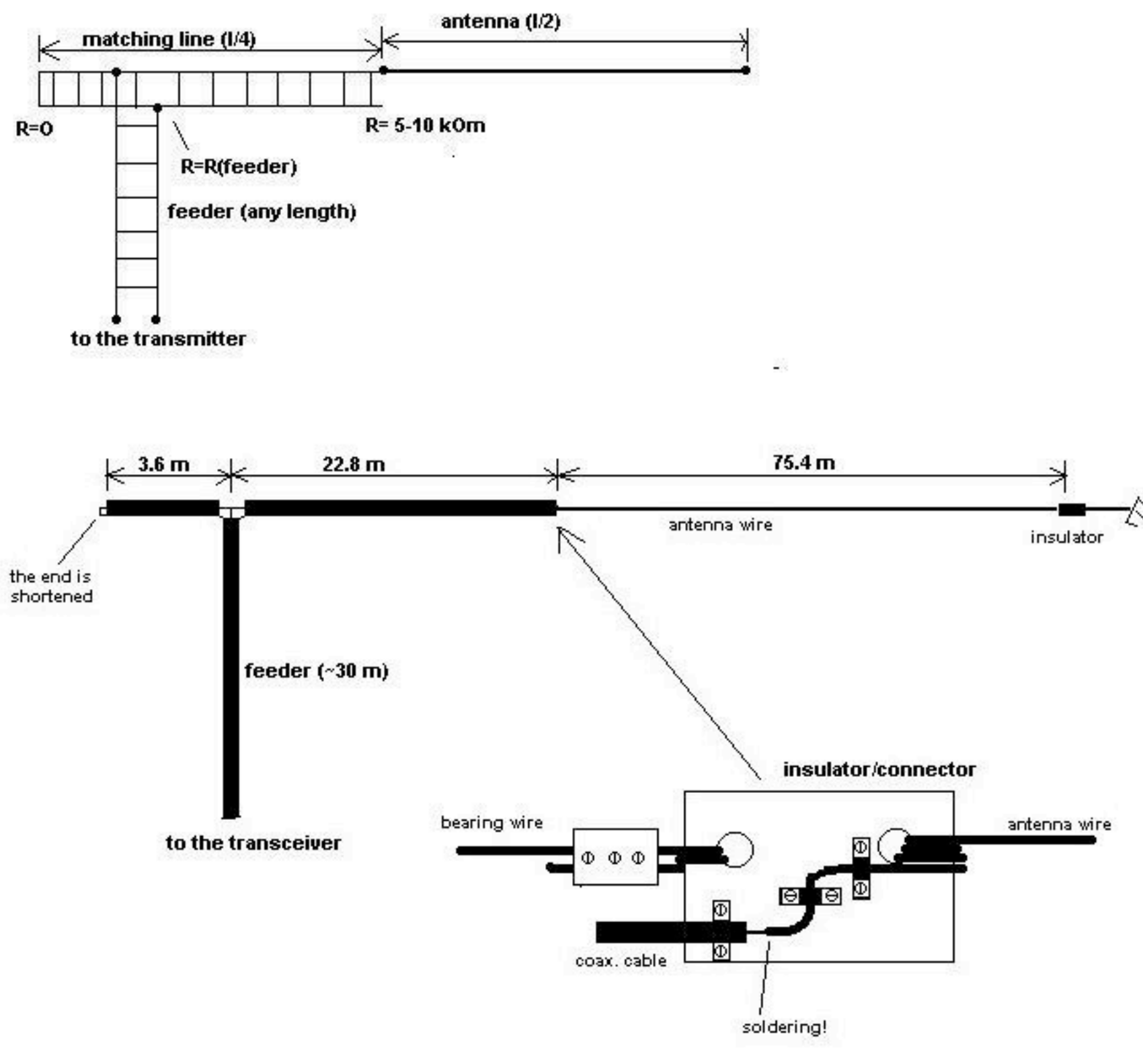


END-FED MEZZ'ONDA

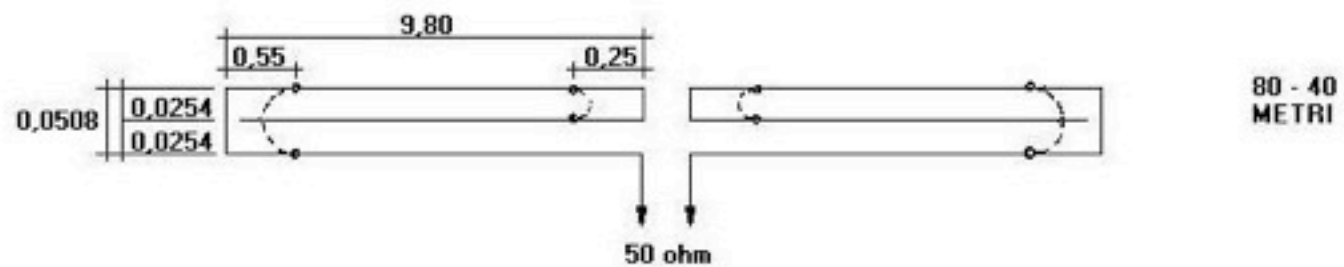
AA5TB

Impedance versus Monopole Height

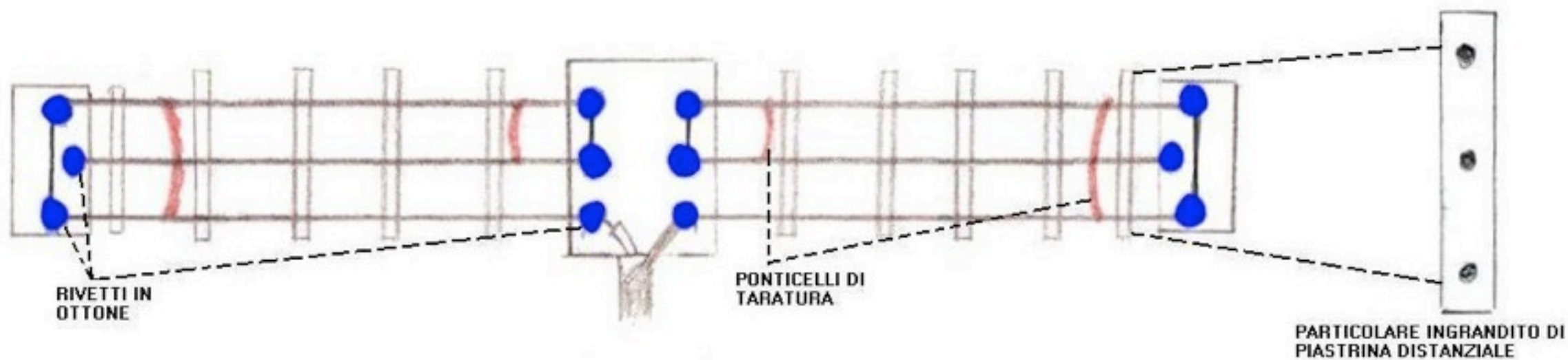




ZEPPELIN RUSSA PER I 60



Antenna Morgain



Schema pratico; il materiale utilizzato per costruire gli isolatori e le piastrine è vetroresina spessa 2mm.

MORGAIN

GRAZIE PER L'ATTENZIONE