

1:1 Ferrite Choke Using Coax

Materials

FT-240-31 Toroid Core (for 160-10 meters)
RG58 Coax, Turns 12, Total length (36")
Plastic Box
2 – SO-239 connectors
2 – Small zip ties
8 – #6 x 1/2" stainless steel round-head bolt
8 – #6 stainless steel nuts
8 – #6 stainless steel washers
8 – #6 stainless steel lock washers

Another Option

As above, but substitute the following two items:
FT-240-43 Toroid Core (for 80-10 meters)
RG58 Coax, Turns 17, Total length (51")

Construction

Zip tie one end of coax leaving 3 inches outside the toroid. Wrap 6 turns and cross the 6th turn to the opposite side. Wrap 6 more turns on the opposite side and zip tie the final turn. A wrap is defined by the coax going through the inside of the toroid.



Websites

Frequency of choke

<http://www.karinya.net/g3txq/chokes/>

Length of wire

http://www.coilwindingmachines.eu/engineers_corner/toroidal_calculations.html

Wrapping the Toroid

<https://www.youtube.com/watch?v=fFz9Z-TRtnQ&t=344s>