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Creators of True Multi-Band Low SWR Antennas

80M OCF Antenna Manual

80M-800K and 80M-1.5K, 80 Meter OCF Insulator Kits



800W Load



1.5KW Load

80M Materials:

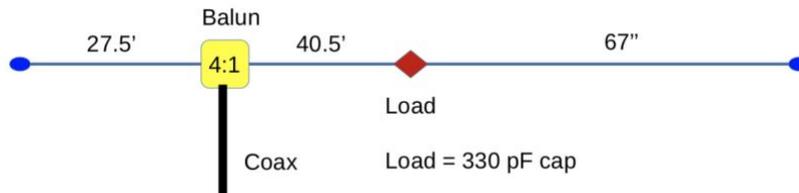
- 1- RC Load Insulator (800W or 1.5KW)
- 2- End Insulators

Balun – Balun Designs 4116et OCF Balun

Wire- 150 feet #14 THHN from Home Store or Davis RF Flex Weave

Cable – 100 Feet RG-8X

Shrink Tubing or Electrical Tape



80M OCF Antenna Schematic

- 1- Cut 42 feet of wire and connect one end to the Balun. Use about 8" or wire to secure the wire to the balun ring bolt for strain relief. Connect and solder the other end to the Load pigtail making sure that the length of wire between the Balun and Load is 40.5 feet.
- 2- Cut 30' of wire and connect it to the Balun using 8" or so of wire to secure it to the loop and connector to the Balun.
- 3- Connect the other end of the wire to the end insulator making the length between the Balun and end insulator 27.5 feet. Wrap excess wire back on the antenna to be used for tuning.
- 4- Cut 71 feet of wire connecting one end to the Load and soldering it to the Load pigtail.
- 5- Connect the other end of the wire to the end insulator while assuring the length between the Load and the end insulator 67.5 feet.
- 6- Connect the 100 feet of RG-8x to the Balun
- 7- Loft the antenna at least 40' and connect the coax to an antenna analyzer or a rig with an SWR meter.
- 8- Adjust the lengths of the ends in the ratio of 4:1 long to short end to maintain the 20% feed point – 3" on the short end for every foot change in the long end – for minimum SWR at 7.05MHz. The length of the center wire can remain the same.
- 9- Secure the ends, cut off excess wire and heat shrink or securely tape all soldered connections.
- 10- The 80M-800 is rated 800 Watts max. power and the 80M-1.5K is rated 1,500 Watts max. power.