

# COMMON MODE NOISE REDUCTION KIT

## FOR AMATEUR RADIO OPERATORS

PART NUMBER 0199000063



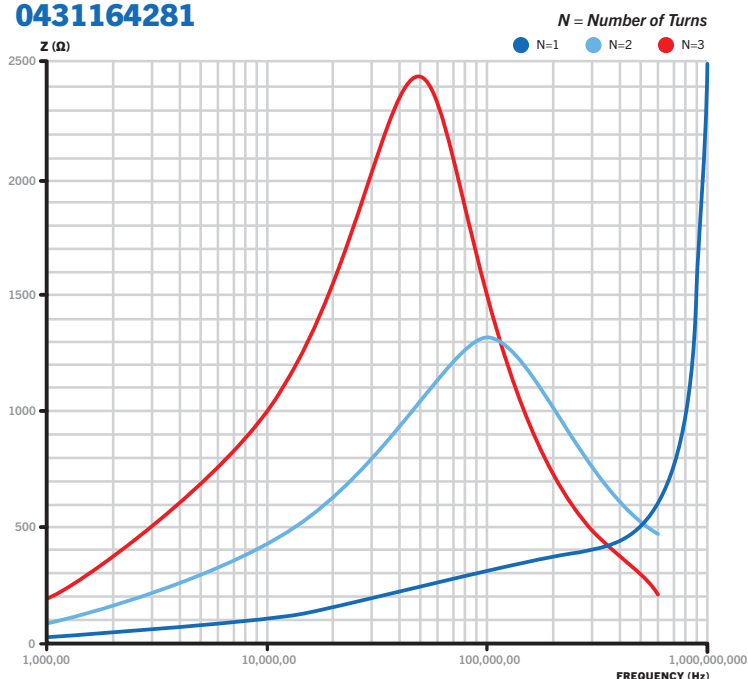
Ferrite acts by producing impedance to high-frequency noise while allowing lower frequency RF to pass. The parts in this kit are manufactured with our Fair-Rite® 31 Material®, which provides exceptional attenuation up to 500 MHz. The graph below is for part number 0431164281 and shows the impedance as a function of frequency. Note that higher levels of impedance can be obtained by looping the cable through a ferrite core multiple times.

Common-mode noise in ham radio is often caused by poor switch-mode power supply design and mismatches between the antenna feed line and antenna. These unwanted high-frequency currents travel back to ground on the shield of your coax and find their way onto microphone cables and other peripherals connected to your rig. Ferrite attenuates the unwanted noise that results from common-mode currents.

The enclosed kit contains the following parts and their ideal use:

| PART NUMBER | QTY | IDEAL USE                             |
|-------------|-----|---------------------------------------|
| 2631803802  | 1   | Balun construction                    |
| 0431184751  | 2   | Power supply cables                   |
| 0431164281  | 2   | Coax, microphone cable, speaker cable |
| 0431164181  | 2   | Coax, microphone cable, speaker cable |
| 0431176451  | 1   | Coax, microphone cable, speaker cable |

### 0431164281



For more information, please visit us at [www.fair-rite.com](http://www.fair-rite.com).

For specific questions, use the [Ask the Advisor](#) section.



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This kit contains a selection of Snap-It® and Toroidal cores for use by amateur radio operators. The parts are made of 31 Material®, which provides optimal suppression from as low as 1 MHz up to 500 MHz. For more information about this kit visit: [www.fair-rite.com/engineering-kits](http://www.fair-rite.com/engineering-kits)



Fair-Rite®, an IATF 16949 registered company, is a leading full-line ferrite component manufacturer offering a wide variety of components for EMI suppression and power applications utilizing innovative processes and materials.

Keep up with the latest from Fair-Rite® by visiting our site at [www.fair-rite.com](http://www.fair-rite.com). You can contact any of our Customer Service personnel, Local Sales Reps or Distributors directly from the home page.



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