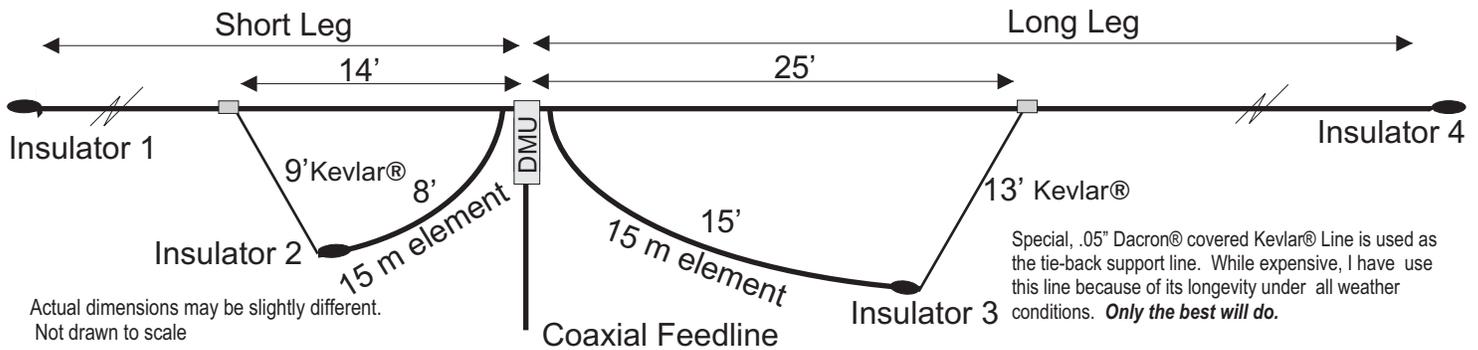


RADIO WORKS™ OCFD Max™ 15 m Element Kit



Kit Contents

- 15' #14 insulated wire element with ceramic insulator installed
- 8' #14 insulated wire element with ceramic insulator installed
- 14' .05" Kevlar™ Line identified with a yellow wire tie
- 9' .05" Kevlar™ Line identified with a red wire tie
- 1' Cold Shrink tape

Tools Needed:

- Soldering iron or gun
- Rosen core solder
- Knife with a sharp blade
(optional. Small wire cutters may be used.)
- Tape measure - if the tape markers on the OCFD MAX's™ elements are missing

Installation Instructions

This kit is a 15 meter element for the OCFD MAX™80 or OCFD MAX™ 40 antenna system. It includes pre-cut wire for the 15 meter element and the .05" Kevlar™ line that holds the 15 meter element in place.

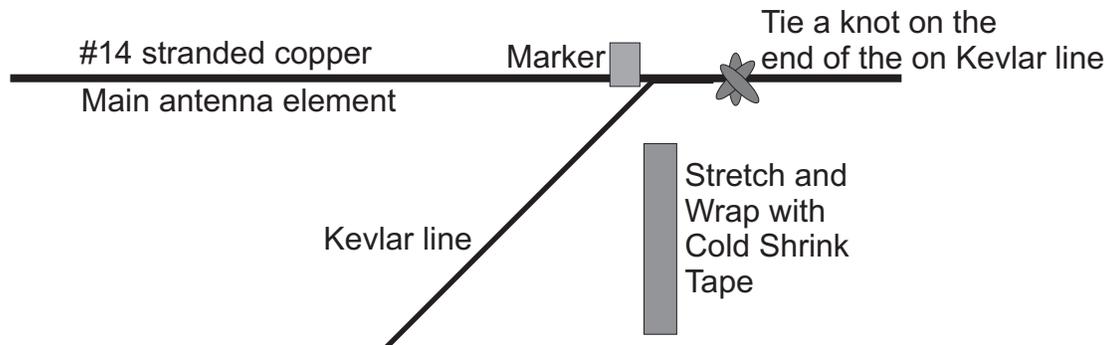
Installation Steps:

1. Lower your OCFD MAX™ antenna close enough to the ground to permit installing the 15 meter element.
2. The 15 meter element wire comes in two coils. One coil has a Yellow wire tie (the long leg) and one coil has a Red wire tie (the short leg). Cut the wire ties and lay the wires on the ground.
3. There are two lengths of small diameter Kevlar™ line. Like the wire coils, they are identified with colored wire ties. The Yellow wire tie identifies the Kevlar™ line for the long leg of the antenna. Similarly, the Red wire tie identifies the Kevlar™ line for short leg of the OCFD MAX™. Each of these Kevlar™ lines has an extra 1(one) foot of length for tying it to the ceramic insulator and to the main element of the OCFD MAX™.

The ceramic insulator are preinstalled on the elements.

4. Measure 6" of Kevlar™ marked with the Red wire tie (remove the wire tie) and tie the Kevlar™ through the hole in the insulator on the short side of the 15 meter element. This wire is approximately 8' long and was identified with a Red wire tie.

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5. Measure 6" of Kevlar™ line marked with the Yellow wire tie (remove the wire tie) and tie it through the hole in the insulator on the longer of the two wires in the 15 meter element. This part of the 15 meter element is approximately 15' long and was identified with a Yellow wire tie.
6. On your OCFD MAX™, you will need to remove the heat shrink tubing from each antenna wire where it connects to the white wires exiting the matching unit. Remove only the black heat shrink tubing. This can be done with a sharp knife or small wire cutters. Be very careful and **DO NOT CUT THE ANTENNA WIRES** or the matching unit's wires. Once the heat shrink tubing has been removed, you should see a clean soldered connections between the antenna wire and the white wire from the matching unit.

You will attach the new 15 meter element to these previously soldered connectors. This avoids having to clean oxidation off the antenna wire before soldering on the new wire.
7. Select the 15' leg of the 15 meter element (Yellow wire tie) Allowing 6" of wire at the end opposite the insulator, wrap the 6" of wire tightly around the previously soldered connection. Using only Rosen Core or other solder suitable for electrical connections, solder the new wire to the original wires and let the connection heat sufficiently so that the joint looks shiny when it cools. If the soldered connection looks dull, reheat and apply a bit more solder.
8. Repeat this process for the short side of the 15 meter element.
9. Both halves of the 15 meter element are soldered in place. Now, it's time to tie off the insulator ends.
10. If your antenna is relatively new, there will be tape markers on the OCFD MAX's™ antenna wire. These markers are 25' from the matching unit on the long leg and 14' from the matching unit on the short leg. If the markers are missing, just measure these lengths on the long and short legs of the antenna and mark them with something that is easy to see.

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11. Select the long piece of Kevlar™ line and tie several knots in the open end. There is 6" of extra Kevlar line to accomplish this. The knots keep the Kevlar™ from slipping, so make several big knots.

Once the knots are tied, cut or tear off a three inch length of cold shrink tape. Hold the Kevlar™ line next to the 25' marker on the long leg of the OCFD MAX™ element and wrap the cold shrink tape around both the Kevlar™ line and the wire OCFD MAX's™ element.

IMPORTANT: Stretch the cold shrink tape as you wrap. Stretching starts a chemical reaction that will make the cold shrink tape nearly solid in a few hours.

12. Repeat the above procedure for the short element of the OCFD MAX™ at the 14' marker using the short Kevlar™ line.
13. Divide the length of the remaining cold shrink tape into two 3" pieces and wrap the soldered area. Remember to stretch the tape while wrapping. the soldered joints.
14. For the purpose of general maintenance, inspect the weatherproofing you installed during the original installation of your OCFD MAX™. Check the Coax Seal on the white wires which exit the matching unit's case. Make sure it is securely stuck to the case and to the wire. Do the same for the Coax Seal on the coaxial connectors.
15. Pull the antenna back into the air and enjoy all the DX on 15 meters.