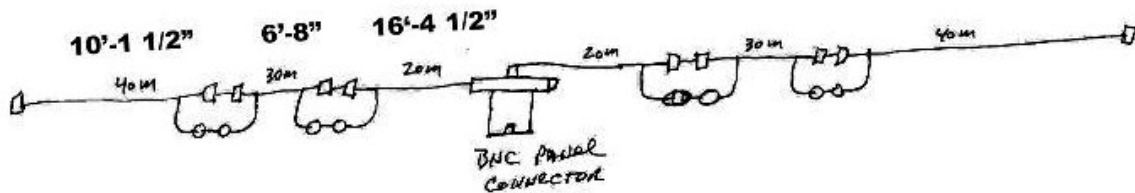
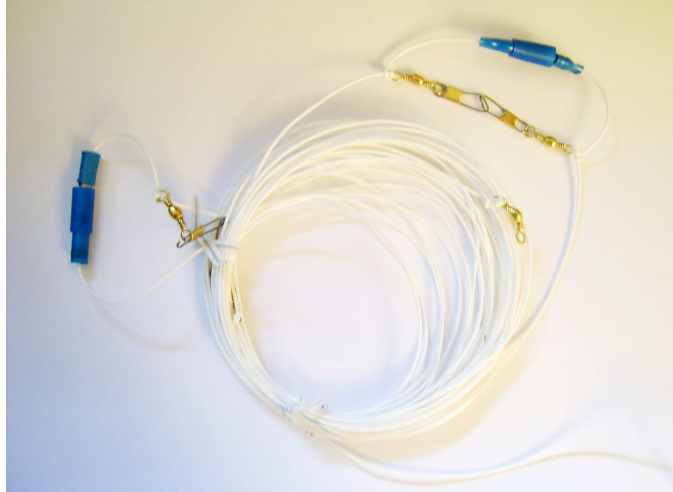


# Tri-Band Dipole

The dipole shown below needs no tuner to operate CW on 20m, 30m and 40m. It has a SWR of 1:3:1 worst case on any of the above bands. I use fishing swivels to tie each piece of #26 stranded-wires together. I then just leave about 1 1/2" of the wire past the swivel. On each piece of wire I soldered a male snap connector on one end and a female snap connector to the next wire end. These connectors are represented by the small circles on the diagram.

The antenna can be put up as a short 20m dipole, as a 30m dipole or as a full 40m dipole. Please note the wire lengths for each section on the diagram. The 20m dipole wire length on each end is 16' - 4 1/2" or 32' - 9" in total length. I like to string up the entire dipole that has a length of 66' - 4". With all the connectors joined, it's a 40m dipole. I then just disconnect the farthest snap connectors on each end and I now have a 30m dipole. If I disconnect the closest connectors to the bnc connector, it's a 20m dipole.



I like this antenna because it works great and I can erect it as conditions dictate on the trail. If I have limited room, I only erect it as a 20m dipole. If I have some room, I erect it as a 30m dipole. If I have plenty of room a 40m dipole. The 20m and 30m wires aren't that long, but the 40m wires add an extra 20'-3" to the length of the antenna. The entire dipole with all the wires connected weighs-in at a scant 3.5oz!

\* Special thanks to Guy, N7UN, for showing me this antenna.