

# HFp Antennas

## The HFp Special Guy Line IEC

With the experiments on the vertically-mounted end-fed dipole, it became obvious that the standard method of installing guy lines on the HFp antennas was not going to work. With this long antenna (up to 16 feet tall), it was necessary to attach the guys above the fifth or sixth segment, putting the top portion of the antenna too high to remove for whip adjustment.

It was clear that a new type of inter-element connector was necessary to allow the entire antenna to rotate and be removed from the base without twisting the guy lines. This would obviously be a good change for the standard HFp antennas, as well. So, the Special IEC was developed.

The Special IEC is a standard IEC with a short ferrule crimped onto one side. The ferrule provides a space for the Guy Line Rings to turn smoothly as the element stack is rotated to assemble or disassemble it. No longer are the Guy Line Rings pinched between an IEC and an element end. Here is a picture of the Special IEC.



The guy lines for this Special IEC have rings with a larger hole than those used on the Radial Wires. These rings fit loosely over the sleeve on the Special IEC, and turn freely.

Here is a picture of the Special IEC in place between two elements, with the Guy Lines installed.



This installation point for the Special IEC and the Guy Lines is usually above the fourth or fifth element in the stack.

At the other end of each Guy Line, the line is threaded through two of the holes in the Guy Line Slider, and is tied to the third hole, then looped over a Ground Stake, as shown in the HFp manual.