

Connectors for HELIAX® HJ5-50 Coaxial Cable



Tools and Materials Required for Assembly

Description

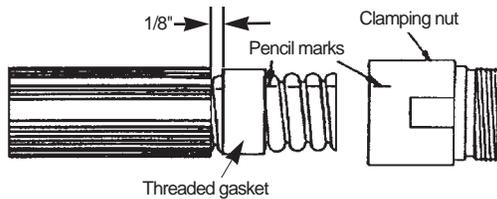
These connectors are designed for self-flaring of the outer conductor and self-tapping (thread cutting) of the inner conductor of the coaxial cable. The end terminal connector has screw terminals for external cable connections.

- | | |
|------------------------------------|----------------------------|
| Knife | Metal snips |
| Flat file | Plastic head mallet |
| Hacksaw: fine-toothed blade | Plastic rod |
| Wrenches: (1) 5/16" | Screw driver |
| (2) 1-1/4" adjustable | |

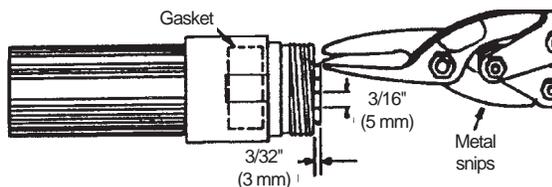
1 Prepare the cable as shown and make certain that the cable end is square. Use a straight-edged piece of paper wrapped around the cable to guide the knife when cutting the jacket. File the cut edges of the conductors to remove rough spots and deburr the end of the inner conductor. Hold the cable downward and tap lightly to remove particles.



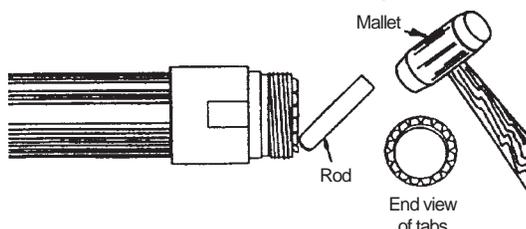
2 Screw the clamping nut onto the cable. Unscrew the clamping nut and mark the position at which the nut comes off the cable. This is the reference point for starting the clamping nut back onto the cable. Apply a thin coating of silicone grease to the threaded gasket and the inner surface of the clamping nut. Position the gasket to within 1/8" of the cable jacket. Screw the gasket onto the outer conductor as shown.



3 Align the pencil marks and push the clamping nut over the gasket. Screw the nut into place so that the outer conductor is slightly exposed as shown. This action pulls the gasket into the correct position. Wipe the silicone grease off the exposed outer conductor and cut tabs as shown.

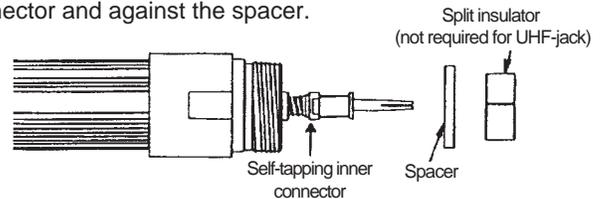


4 Flare the tabs of the outer conductor against the edge of the clamping nut by lightly tapping them with the rod and mallet. Use only enough force to flatten the tabs. Trim tab ends that protrude beyond the edge of the clamping nut.

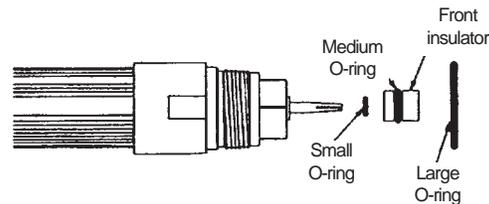


5 Screw the inner connector while firmly pushing inward, into the inner conductor. Use a 5/16" wrench to turn the inner connector and apply solvent to the threads as a lubricant.

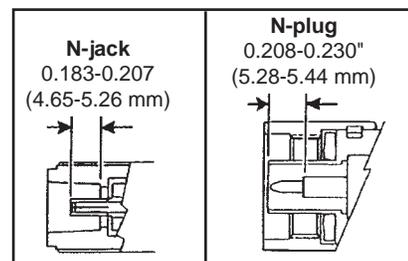
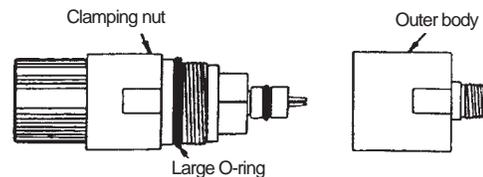
Place the spacer against the clamping nut and snap the split insulator (not required for the UHF-jack) in place on the inner connector and against the spacer.



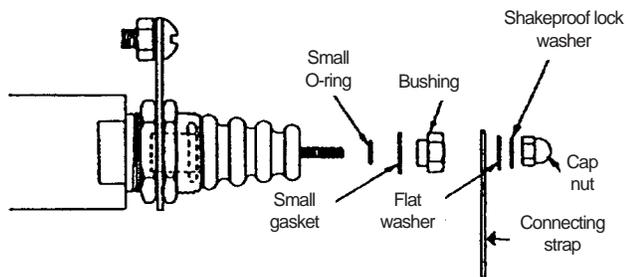
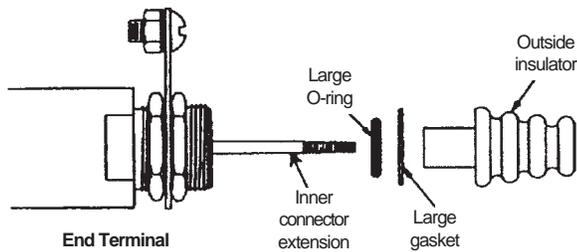
6 For all except End Terminal: Apply a thin coat of silicone grease to the small and medium O-rings. Slide the small O-ring onto the inner connector. For the LC-jack, place the small O-ring into the groove of the inner connector. Slide the medium O-ring onto the front insulator and slide the insulator onto the inner connector.



7 For all except End Terminal: Apply a thin coating of silicone grease to the large O-ring and slide it into the groove of the clamping nut. Screw the outer body onto the clamping nut and tighten the connection with wrenches. Hold the clamping nut and turn only the outer body to 40-44 lb-ft (54-60 N-m)



8 For End Terminal: Apply a thin coating of silicone grease to both O-rings. Slide the large gasket and large O-ring onto the outside insulator. Slide the insulator onto the outer body. Slide the small O-ring onto the inner connector extension and into the insulator. Place the small gasket on the bushing and screw the bushing onto the inner connector extension and tighten it carefully. Add the connecting strap, flat washer, shakeproof lock washer, and a cap nut to the extension. Apply silicone grease over the entire connection for corrosion protection.



Notice

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Andrew disclaims any liability or responsibility for the results of improper or unsafe installation practices.



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