

Installation Instructions

Bulletin 237550

Revision B

H7MB-014 Connector for HELIAX^{fi} HJ7-50A Coaxial Cable



Tools and Materials Required for Assembly

Description

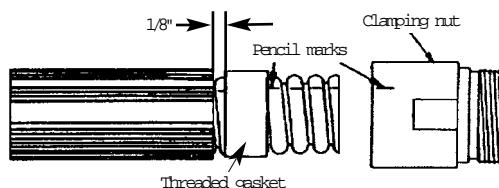
This connector is designed for tab-flaring of the outer conductor and self-tapping (thread cutting) of the inner conductor of the coaxial cable.

Knife	Metal snips
Flat file	Plastic head mallet
Hacksaw: fine-toothed blade	Plastic rod
Wrenches: (1) 7/16"	Screw driver
(2) 2-1/4" adjustable	

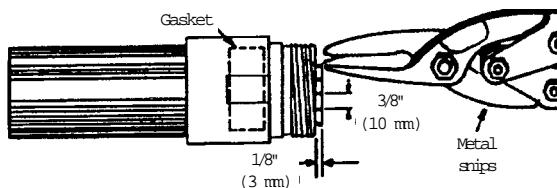
- 1** Prepare the cable as shown and make certain that the cable end is square. Use a straight-edged piece of paper wrapped around the cable to guide the knife when cutting the jacket. File the cut edges of the conductors to remove rough spots and deburr the end of the inner conductor. Hold the cable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



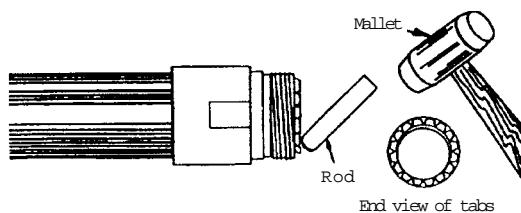
- 2** Screw the clamping nut onto the cable. Unscrew the clamping nut and mark the position at which the nut comes off the cable. This is the reference point for starting the clamping nut back onto the cable. Apply a thin coating of silicone grease to the threaded gasket and the inner surface of the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



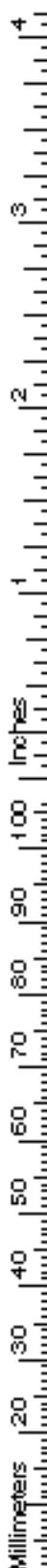
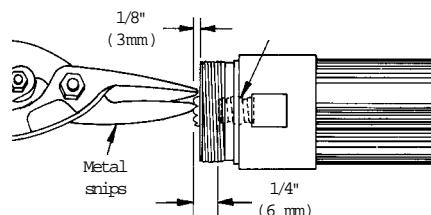
- 3** Align the pencil marks and push the clamping nut over the gasket. Screw the nut into place so that the outer conductor is slightly exposed as shown. This action pulls the gasket into the correct position. Wipe the silicone grease off the exposed outer conductor and cut tabs as shown.



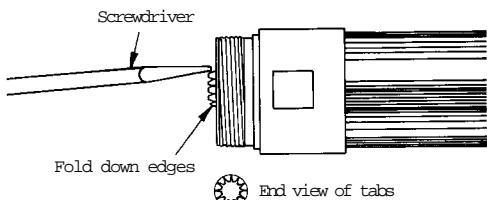
- 4** Flare the tabs of the outer conductor against the edge of the clamping nut by lightly tapping them with the rod and mallet. Use only enough force to flatten the tabs. Trim tab ends that protrude beyond the edge of the clamping nut.



- 5** Install stub with screwdriver slots facing out. Screw the stub into the inner conductor so that it will be clear of metal snips while cutting. Make twelve 45° V-notches 1/8" (3 mm) deep in the conductor with the snips.

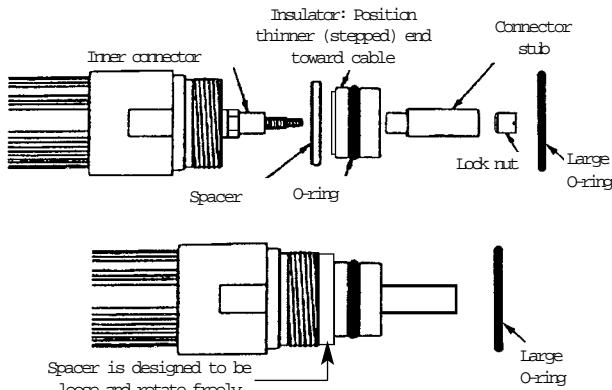


6 Unscrew the stub until its tapered edge is even with the deep ends of the cuts in the inner conductor. Fold the tabs of the conductor over the taper and carefully tap the tabs with the mallet.

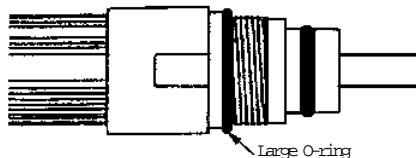


Verify that the preassembled small O-ring is present inside the insulator. Apply a thin coating of silicone grease to the small O-ring.

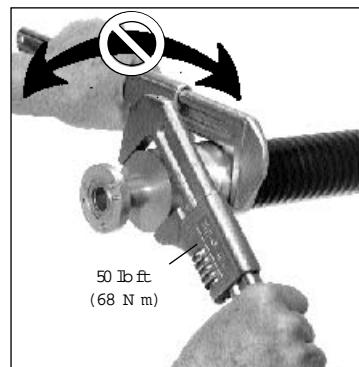
Place the spacer against the clamping nut and the insulator on the stub against the spacer. Screw the contact sleeve onto the inner stub finger tight. Lock the contact sleeve in place by inserting a lock nut into the sleeve and stub. Tighten the lock nut with a screwdriver. Do not overtighten. The spacer is designed to be loose and rotate freely.



7 Apply a thin coating of silicone grease to the O-rings. Slide the large O-ring into the groove of the clamping nut. Position the outer body over the insulator and spacer and screw the outer body onto the clamping nut. Tighten the connection with wrenches.



Hold the clamping nut and turn only the outer body to 50 lb-ft (68 N·m).



Notice

The installation, maintenance or removal of antenna systems requires qualified, experienced personnel. Andrew installation instructions are written for such personnel. Antenna systems should be inspected once a year by qualified personnel to verify proper installation, maintenance and condition of equipment.

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Printed in U.S.A. 10/03

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