

**ANDREW**

# INSTALLATION INSTRUCTIONS

## TYPE 44A SERIES CONNECTORS

BULLETIN 17277H

Type 44A connectors in this series are used with FHJ4-50B jacketed 1/2 in. foam dielectric HELIAX® 50-ohm coaxial cable, and RX4 RADIAX™ slotted coaxial cable. A -3 suffix added to the connector type number indicates it is specially plated for use with FLJ4-50C jacketed aluminum cable (Example: 44AH-3). Connectors with a -75 suffix have a 75-ohm impedance (44AJ-75).

### READ THE INSTRUCTIONS THOROUGHLY BEFORE ASSEMBLY

#### TOOLS AND MATERIALS REQUIRED FOR ASSEMBLY

Hacksaw, fine blade	Scale, 6 in. (150 mm)	Rosin flux	Wrenches (2)
File, flat	Garnet cloth	Soldering iron	10 in. adjustable
Tape, vinyl	Soft solder	Damp cloth	Solvent, comothene, vythene or other
Knife	Longnose pliers	Wire brush	non-flammable cleaning fluid

**STEP 1.** Prepare cable as shown in Figure 1. End of cable must be square. If it is not, use hacksaw and make new cut. Remove jacket from end of cable per over-all dimension. Use straight-edged piece of paper wrapped around cable to guide jacketing cut. Use knife to remove jacket. Clean outer conductor with solvent. Cut off outer conductor and foam to dimension shown. Clamping nut can serve as cutting guide. See Figure 1A. Make shallow cut around cable. Do not damage inner conductor. Remove tape and clamping nut. Trim foam with sharp knife. Check to see that inner conductor is correct length. Use file to remove burrs from cut edges of conductors. Use small wire brush to remove copper particles from foam. For 44AGR, continue with Step 3.

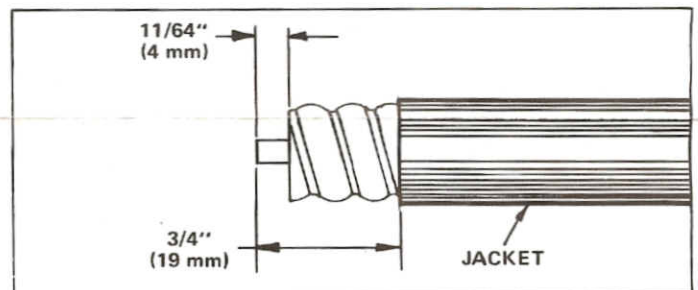


FIGURE 1

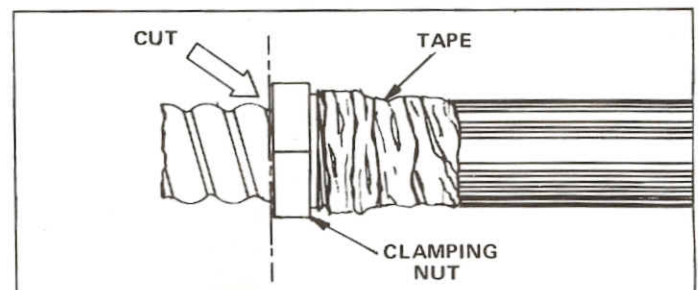


FIGURE 1A

**STEP 2.** Remove surface oxides from inner conductor. Soft solder inner connector to inner conductor using soldering iron or gun. Use only enough heat to melt solder. Refer to Figure 2. Immediately after soldering, wipe away excess solder and cool connection with damp cloth. After cooling, clean connection with garnet cloth. Do not use emery cloth or steel wool.

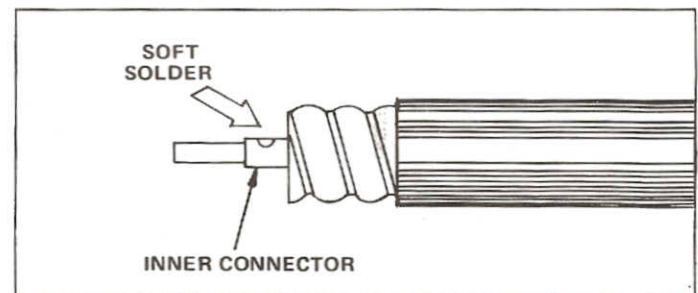


FIGURE 2

**STEP 3.** Cover foam at end of cable with silicone grease to seal pores. Also apply grease to outer conductor covering approximately 1 in. (25 mm) at end. Screw clamping nut onto cable until outer conductor is exposed per dimension in Figure 3. Use longnose pliers to crimp outer conductor into opening in clamping nut. Apply thin coating of silicone grease to threaded area of clamping nut.

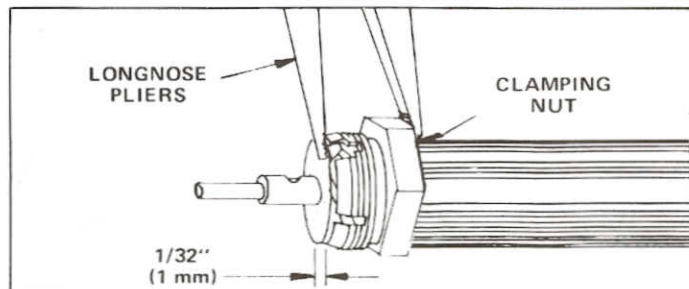


FIGURE 3

**STEP 4.** Screw outer body onto clamping nut. See Figure 4. Tighten connection with wrenches. Turn outer body only; do not turn clamping nut. Force silicone grease into opening between cable and clamping nut to prevent moisture from entering. For further weatherproofing, tightly wind four or five layers of vinyl tape over opening and at least 1 in. to either side.

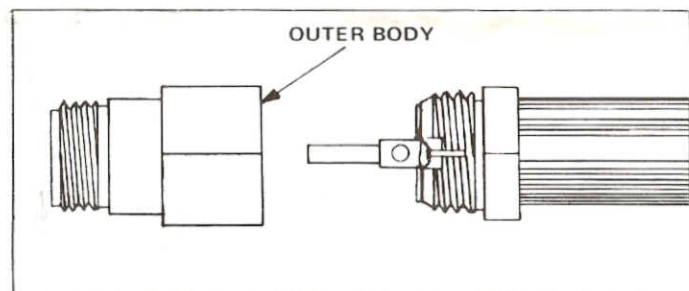


FIGURE 4

**STEP 5.** For 44AGR, gently place inner adaptor into base of GR connector on outer body, and engage it with inner conductor. See Figure 5. Use right turning motion to aid engagement. Align keyway in insulator with keyway in GR connector, then push adaptor toward outer body. Align key on end plug with keyways in insulator and GR connector base, then slide end plug into position. Tighten in place with locking nut.

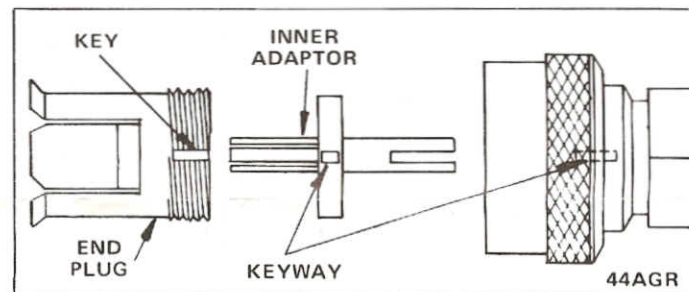


FIGURE 5

**STEP 6.** For 44AT, apply thin coating of silicone grease to "O" ring and place ring onto extension insulator as shown in Figure 6. Slip assembly into outer body. See that "O" ring is properly seated inside. Apply silicone grease to other "O" ring and place ring into groove of stud head. Screw stud head onto inner connector and tighten. Do not deface stud head.

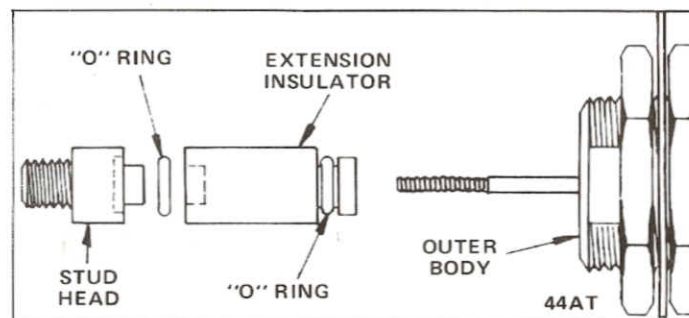


FIGURE 6

**STEP 7.** Lock stud head in place with setscrew. See Figure 7. Add lockwasher, connecting strap, lockwasher, and cap nut. Tighten cap nut.

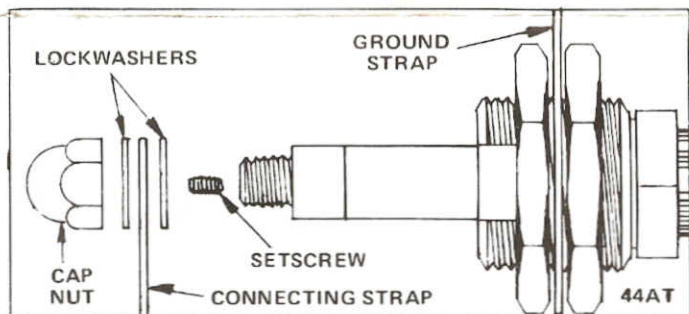


FIGURE 7