

For AirCell® Transline and Radiating Cables – 1/2”, 5/8”, and 7/8” - 50 and 75 Ohm

3A

For use with cable prep tools CT01250AIO, CT05850AIO, and CT07850AIO (Automatic)
(for other cable prep tools use instructions 3, 3B, 3C, and 3D)

General Description

AirCell® connectors are designed specifically for use with Trilogy’s AirCell® 50 Ohm Transline and Radiating cables. **Instructions should be read thoroughly prior to connector installation.**

Installation Tools

Hacksaw	Razor Knife
File	Adjustable Wrenches
3M Scotchbrite™ Pad	Drill (optional)
All-In-One Cable Prep Tool (CT01250AIO, CT05850AIO, CT07850AIO)	



Prepare Cable for Connectorization

- 1) **Cut** cable squarely using a hacksaw. Ensure that cable is straight for at least 10” from the end.
(Tool required: Hacksaw)
- 2) **For riser rated cables** (otherwise proceed to step 3). **Remove** 5” of jacket and tape using razor knife (Figure 1). **Remove** jacket strip blade from prep tool and proceed to Step 4.
(Tool required: Razor Knife).
- 3) **For radiating cables** (otherwise proceed to step 4). **Remove** .50” of jacket using razor knife (Figure 1). **Remove** jacket strip blade from prep tool.
(Tool required: Razor Knife)
- 4) **Insert cable end into prep tool and turn tool clockwise** (Figure 2). Ensure that center conductor passes into hollow center of coring bit. When tool no longer cuts away material and spins freely, **remove** tool while continuing to turn. (This process will remove .50” of jacket back for 1/2” and 7/8” cable or .63” of jacket back for 5/8” cable with standard black jacket. If necessary, **remove** any jacket remnants with razor knife.) **For riser rated cables**, the exposed outer conductor will be 3.88” for 1/2” cable or 3.63” for 5/8” and 7/8” cables when prep is completed.
(Tool required: All-In-One Cable Prep Tool)
- 5) **Remove disc remnants** from center conductor using razor knife. **Deburr center conductor** using file. **Remove adhesive** with 3M Scotchbrite™ pad.
(Tools required: Razor Knife, File, and 3M Scotchbrite™ Pad)



Figure 1

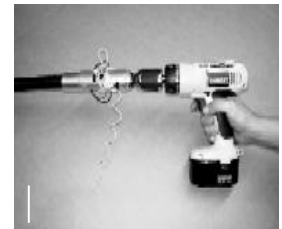


Figure 2



Figure 3



Figure 4

Connectorization

- 6) **Slide** back-nut onto cable end. The plastic insert should be firmly secured inside cable and back-nut will slide back and forth. Center conductor should protrude slightly when back-nut is fully forward (Figure 3). **Slide** front-nut onto center conductor and **hand-tighten** connector by **turning** the back-nut (Figure 4).

Tighten the Connector

- 7) **Tighten the connector** with wrenches by **holding** front-nut while **turning** back-nut until back-nut reaches a positive stop (Figure 5).



Figure 5



Figure 6

Seal the Connector

- 8) **For riser rated cables**, **seal** connector with appropriate weatherproofing. Ensure that seal begins with connector and extends at least 2” past the beginning of cable jacket (Figure 6).

Caution: For best electrical performance, do not damage the center or outer conductors.

Notice: Trilogy disclaims any liability or responsibility for the results of improper or unsafe installation, inspection, maintenance, or removal practices.