

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

3C

For use with Splice Connectors (SPA type connectors) and cable prep tools CT01250AIO, CT05850AIO, and CT07850AIO (Automatic) (for other cable prep tools use instructions 3, 3A, 3B, 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** both cables 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 (Figure 3). (Tools required: Razor Knife, File, and 3M Scotchbrite™ Pad)



Figure 1

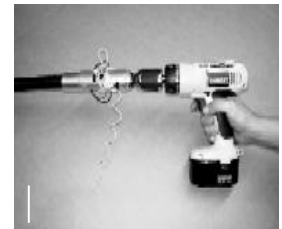


Figure 2

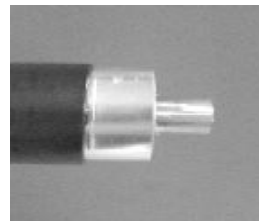


Figure 3



Figure 4

### Connectorization

- 6) **Separate** splice back-nuts from middle-nut (Figure 4). **Slide** back-nuts securely onto each cable end. Each center conductor should protrude slightly when back-nuts are fully forward (Figure 5). **Slide** each center conductor into the middle-nut and **hand-tighten** splice by **turning** the back-nuts (Figure 6).

### Tighten the Connector

- 7) **Tighten the splice** with wrenches by **holding** middle-nut while **turning** back-nuts until back-nuts reach a positive stop.



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.

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.