

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

3C

### General Description

AirCell® connectors are designed specifically for use with Trilogy's AirCell® 50 and 75 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 Installation

- 1) Squarely **cut** both cable ends using hacksaw. **Ensure** cable ends are straight for at least 6 inches. (Tool required: Hacksaw)

**Note:** When using the AIO tool w/Cabelcon connectors on Radiating cable, the Jacket strip blade must be removed, also remove .5" of Jacket using razor knife (Figure 3).

**Remove 2.25" of jacket & tape** (for riser rated cable) using knife-box cutter

- 2) Note: Prep tool can be used in a drill by loosening allen screw and removing T-handle assembly. Shank will be exposed (Figure 1). **Insert** cable end into all-in-one cable prep tool. **Ensure** that center conductor passes into hollow center of coring bit. **Turn** tool clockwise, (Figure 2). When tool no longer cuts away any material and spins freely, **remove** tool while continuing to turn. (Tool required: All-In-One Cable Prep Tool)
- 3) **Remove** any remnants of a disk from exposed center conductor using the utility knife. **Clean** center conductor with 3M Scotchbrite™ pad. **Remove** any burrs from center and outer conductor using file. A prepared cable end is pictured (Figure 3). (Tools required: Utility Knife, 3M Scotchbrite™ Pad, and File)



Figure 1

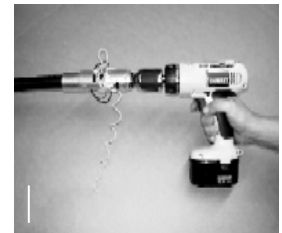


Figure 2

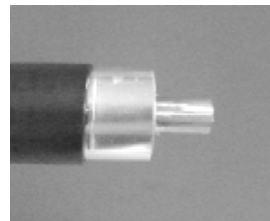


Figure 3



Figure 4

### Installation

- 4) **Separate** splice middle-nut from back-nuts. **Slide** back-nut onto each cable end. The plastic insert should be firmly secured inside cable and back-nut will slide back and forth. Center conductor should protrude slightly beyond back-nut when back-nut is slid fully forward (Figure 4). **Slide** each center conductor into middle nut (Figure 5).

### Tighten the Splice

- 5) Hand-tighten the three pieces together (Figure 6). Using adjustable wrenches hold middle-nut while turning back-nuts. Continue tighten until splice will not rotate on cable. (Tools required: Adjustable Wrenches)

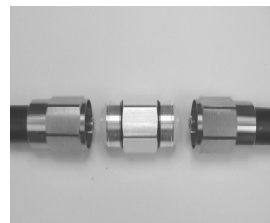


Figure 5

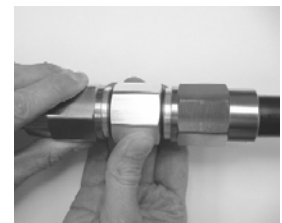


Figure 6

**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.