

## For AirCell® Transline and Radiating Cables — 1-1/4" and 1-5/8" 50 Ohm

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For use with cable prep tools CT11450AIO, CT15850AIO, CT11450P, and CT15850P

### 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  
3M Scotchbrite™ Pad  
Heat Shrink (or Weatherproofing Kit)  
All-In-One Cable Prep Tool  
(CT11450AIO, CT15850AIO, CT11450P, CT15850P)

Razor Knife  
Adjustable Wrenches  
Small Ruler or Wire  
File



### Prepare Cable for Connectorization

- 1) **Locate the 1<sup>st</sup> disc by inserting small ruler or wire.** Mark location on jacket surface. **Cut cable .13" behind disc using hacksaw (Figure 1).** Ensure that cable is straight for at least 10" from the end. (Tools required: Small Ruler or Wire and Hacksaw)
- 2) **For riser rated cables** (otherwise proceed to step 3).
  - a) **Remove 5" of jacket and tape using razor knife (Figure 2).** (Tool required: Razor Knife)
  - b) **Remove jacket strip blade from prep tool.**
- 3) **Insert cable end into prep tool and turn tool clockwise** to remove material (Figure 3). 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 standard black jacket. If necessary, **remove** any jacket remnants with razor knife.) **For riser rated cables,** the exposed outer conductor will be 3.94" when prep is completed. (Tools required: All-In-One Cable Prep Tool and Razor Knife)
- 4) **Remove disc remnants** from center conductor using razor knife (Figure 4). **Deburr center conductor** using file. **Remove adhesive** with 3M Scotchbrite™ pad. (Tools required: Razor Knife, File, and 3M Scotchbrite™ Pad)

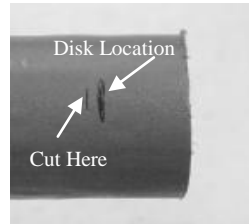


Figure 1

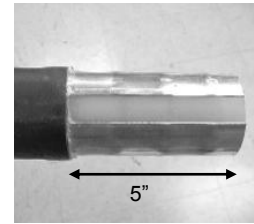


Figure 2

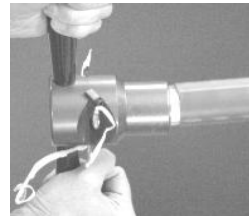


Figure 3

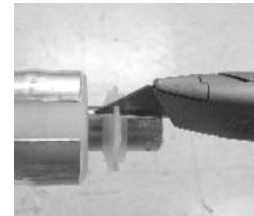


Figure 4

### Connectorization

- 5) **Slide back-nut of connector onto prepared cable end.** Center conductor will protrude at least .50" (Figure 5). **Slide front-nut onto center conductor and hand-tighten** connector by **turning the back-nut.**

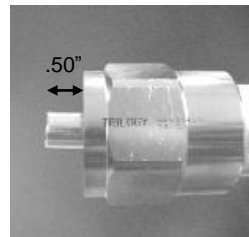


Figure 5



Figure 6

### Tighten the Connector

- 6) **Tighten the connector** with wrenches by **holding front-nut while turning back-nut** until back-nut reaches a positive stop (Figure 6). (Tools required: Adjustable Wrenches)

### Seal the Connector

- 7) **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 7).



Figure 7

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

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