

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

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Cable Product Code AT012J50, AT012F50, AT012FX50, AT012R50, AR012J50, AR012F50, AR012FX50, AR012R50, AT058J50, AT058FX50, AT058R50, AR058J50, AR058FX50, AR058R50, AT078J50, AT078FX50, AT078R50, AR078J50, AR078FX50, AR078R50.

### 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	Small Ruler or Wire
Heat Shrink (or Weatherproofing Kit)	
All-In-One Cable Prep Tool (CT01250AIO-2, CT05850AIO-2, CT07850AIO-2)	



### Prepare Cable for Connectorization

- 1) **Locate the 1<sup>st</sup> disc by inserting small ruler or wire.** Mark location on jacket surface. **Cut** right in front of disc using hacksaw (Figure 1). *Ensure that cable is straight for at least 10" from the end.*
  - a) (Tools required: Small Ruler or Wire and Hacksaw)
- 2) **Remove 2.5" of jacket & tape (for riser rated cables) using razor knife (Figure 2),** also remove the jacket strip blade.
  - a) (Tool required: Razor Knife)
- 3) **Insert cable end into prep tool and turn tool clockwise** to cut into and remove material (Figure 3). When tool no longer cuts away material and spins freely, **remove** tool while continuing to turn. (This process will remove 0.5"-0.6" jacket for standard jacket cable – black jacket. If necessary, **remove** jacket remnants with razor knife).
  - a) (Tools required: All-In-One Cable Prep Tool and Razor Knife)
- 4) **Remove disc remnants** using razor knife. **Deburr center conductor** using file. **Remove adhesive** with 3M Scotchbrite™ pad.
  - a) (Tools required: Razor Knife, File, and 3M Scotchbrite™ Pad)

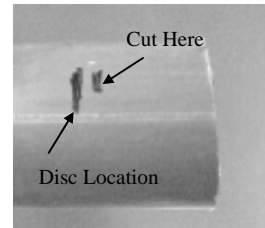


Figure 1

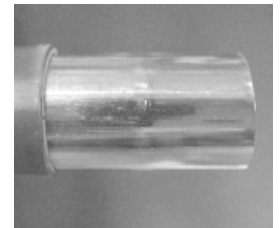


Figure 2

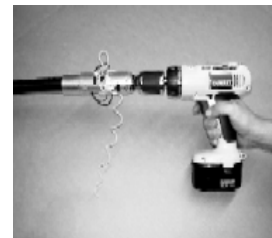


Figure 3

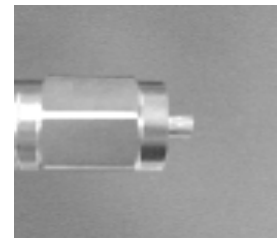


Figure 4

### Connectorization

- 5) **Slide** back-nut of connector into place onto prepared cable end. Center conductor should protrude at least 0.25" (5/8" & 7/8" cables) or 0.375" (1/2" cable) (Figure 4). **Slide** front-nut onto center conductor and **hand-tighten** pieces together.

### Tighten the Connector

- 6) **Tighten the connection** with wrenches by holding front-nut while turning back-nut until back-nut reaches a positive stop (Figure 5).
  - (Tools required: adjustable wrenches)

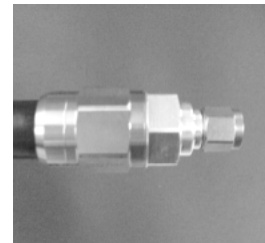


Figure 5



Figure 6

### Seal the Connector (For Riser Rated Cables)

- 7) **Place heat shrink/weatherproofing** over connector/ cable interface and **seal.** *Both cable and connector should be covered for 2" (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.