

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

Cable Product Code AT114J50, AR114J50, AT114FX50, AR114FX50, AT114R50, AR114R50, AT158J50, AR158J50, AT158FX50, AR158FX50, AT158R50, AR158R50.

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	
(CT11450AIO, CT15850AIO, CT11450P, CT15850P)	



Prepare Cable for Connectorization

- 1) **Cut cable 0.125" (1/8") behind the 1st disc** using hacksaw (Figure 1). (In order to locate the 1st disc for fire retardant jacket or riser rated cables – gray jacket, insert small ruler or wire and mark location on jacket surface). Ensure that cable is straight for at least 10" from the end. (Tools required: Hacksaw and Small Ruler or Wire)
- 2) **Remove 3-5/8" of jacket & tape** (for riser rated cable) using razor knife, (Figure 2). (Tools required: Razor Knife)
- 3) **Insert cable end into prep tool and turn tool clockwise** to cut into and remove material (Figure 3). Please remove the jacket strip blade for riser rated cables. When tool no longer cuts away material and spins freely, **remove** tool while continuing to turn. (This process will remove 0.5" jacket back for standard jacket cable – black jacket. If necessary, **remove** jacket remnants with razor knife). (Tools required: All-In-One Cable Prep Tool and Razor Knife)
- 4) **Remove disc remnants** from center conductor using razor knife (Figure 4). **De-burr center conductor** with file. **Remove adhesive** with 3M Scotchbrite™ pad. (Tools required: Razor Knife, File, and 3M Scotchbrite™ Pad)

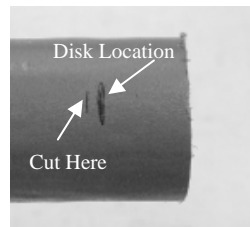


Figure 1

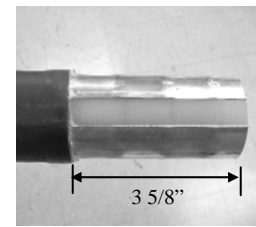


Figure 2

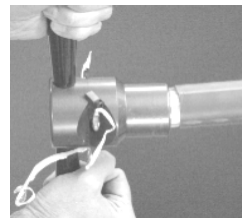


Figure 3

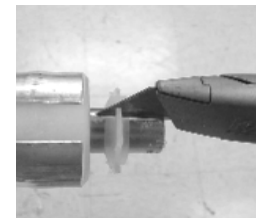


Figure 4

Connectorization

- 5) **Slide** back-nut of connector into place onto prepared cable end. Center conductor should protrude at least 0.5" (Figure 5). **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 6). (Tools required: adjustable wrenches)

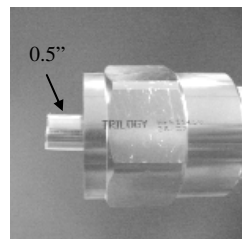


Figure 5



Figure 6

Seal the Connector (For Riser Rated Cables)

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



Figure 7

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.