

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

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For use with cable prep tools CT01250AIO-2, CT05850AIO-2, and CT07850AIO-2 (Automatic)
(for other cable prep tools use instructions 3A, 3B, 3C, 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 | 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 1st 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.
(Tools required: Small Ruler or Wire and Hacksaw)
- 2) **For R and FV jacket types** (J, F, and FX jacket types 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. (For J, F, and FX jacket types, this process will remove .50" of jacket back for 1/2" and 7/8" cable or .63" of jacket back for 5/8" cable. If necessary, **remove** any jacket remnants with razor knife.) **For R and FV jacket types**, the exposed outer conductor will be 4.25" for 1/2" cable or 4.50" for 5/8" and 7/8" cables 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. **Deburr center conductor** using file. **Remove adhesive** with 3M Scotchbrite™ pad.
(Tools required: Razor Knife, File, and 3M Scotchbrite™ Pad)

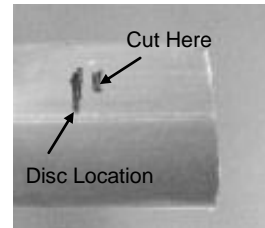


Figure 1



Figure 2



Figure 3



Figure 4

Connectorization

- 5) **Slide** back-nut of connector onto prepared cable end. Center conductor will protrude at least .38" for 1/2" cable or .25" for 5/8" and 7/8" cables (Figure 4). **Slide** front-nut onto center conductor and **hand-tighten** connector by **turning** the back-nut.

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 5).
(Tools required: Adjustable Wrenches)



Figure 5



Figure 6

Seal the Connector

- 7) **For R and FV jacket types**, **seal** connector with appropriate weatherproofing. Ensure that seal begins with connector and extends at least 2" past the beginning of cable jacket (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.