AirCell®

Connectors & Tools

TRILOGY Communications

Connector Installation Instructions

For AirCell® Transline and Radiating Cables – 7/8" 50 Ohm 3E

For use with Power Prep Tools CT07850AIO-2

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**.

Power Prep Tool (Figure 1)
(CT07850AIO-2 - Remove jacket strip blade from Power Prep Tool.)

Additional Tools Required (Figure 2)

Power Drill	Razor Knife
3M Scotchbrite™ Pad	Adjustable Wrenches
Heat Shrink (or Weatherproofing Kit)	Small Ruler or Wire
File	Hacksaw

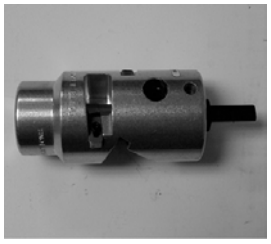

Figure 1

Figure 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 3). Ensure that cable is straight for at least 10" from the end.
(Tools required: Small Ruler or Wire and Hacksaw)

2) Remove 2-1/2" of jacket and tape using razor knife (Figure 4).
(Tool required: Razor Knife)

3) **Insert cable end into Power Prep Tool and turn Power Prep Tool clockwise** to remove material (Figure 5). When Power Prep Tool no longer cuts away material and spins freely, **remove** Power Prep Tool while continuing to turn.
(Tools required: Power Prep Tool)

4) **Remove disc remnants** from center conductor using razor knife. **Deburr center conductor** using file. **Remove adhesive** with 3M Scotchbrite™ pad. Remove any remaining debris from cable end.
(Tools required: Razor Knife, File, and 3M Scotchbrite™ Pad)

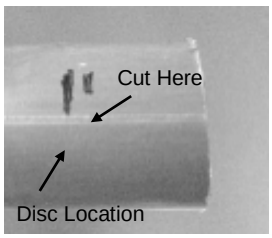

Figure 3

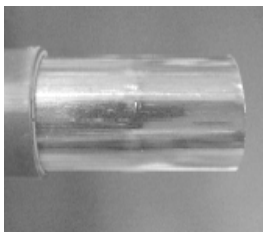

Figure 4

Connectorization

5) **Slide** back-nut of connector and compression sleeve onto prepared cable end (Figure 6 and Figure 7).

6) **Slide** front-nut onto center conductor and **hand-tighten** connector by **turning** the back-nut (Figure 8).

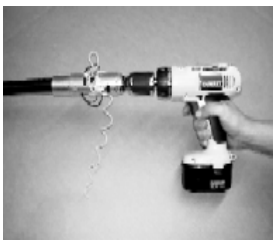

Figure 5

Figure 6

Tighten the Connector

7) **Tighten the connector** with wrenches by **holding** front-nut while **turning** back-nut until back-nut reaches a positive stop (Figure 8).
(Tools required: Adjustable Wrenches)

Seal the Connector

8) **Seal** connector with appropriate weatherproofing. Ensure that seal begins with connector and extends at least 2" past the beginning of cable jacket (Figure 9).

Figure 7

Figure 8

Figure 9

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.