

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

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For use with Power Prep Tools CT11450AIO, CT15850AIO, CT11450P, and CT15850P

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)
(CT11450AIO, CT15850AIO, CT11450P, CT15850P)

Additional Tools Required (Figure 2)

Power Drill

3M Scotchbrite™ Pad

Heat Shrink (or Weatherproofing Kit)

File

Razor Knife

Adjustable Wrenches

Small Ruler or Wire

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** cable .125" behind 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) **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 4). (Tool required: Razor Knife)
 - b) **Remove** jacket strip blade from Power Prep Tool.
- 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. (For J, F, and FX jacket types, this process will remove .50" of jacket back. If necessary, **remove** any jacket remnants with razor knife.) **For R and FV jacket types**, the exposed outer conductor will be 4" when prep is completed. (Tools required: Power Prep Tool and Razor Knife)
- 4) **Remove disc remnants** from center conductor using razor knife (Figure 6). **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)

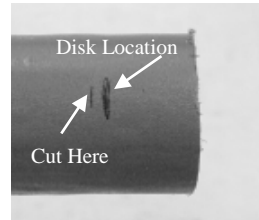


Figure 3

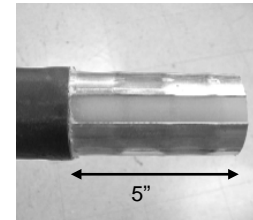


Figure 4



Figure 5

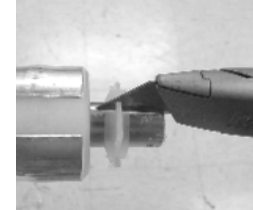


Figure 6

Connectorization

- 5) **Slide** back-nut of connector onto prepared cable end. Center conductor will protrude at least .50" (Figure 7). **Slide** front-nut onto center conductor and **hand-tighten** connector by **turning** the back-nut.

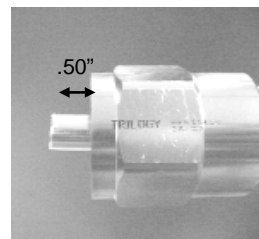


Figure 7

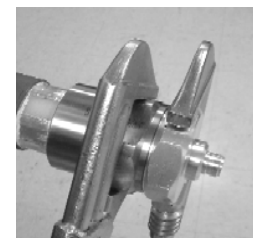


Figure 8

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 8). (Tools required: Adjustable Wrenches)

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 9).

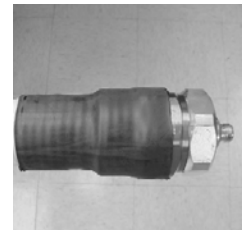


Figure 9

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

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