

## For AirCell® Plenum, Ultra-Flex, and Conduit Cable 1/2" 50 and 75 Ohm Cables

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For use with cable prep tool PCT012 (Power Coring Tool)  
(for other cable prep tools use instructions 2A and 2B)

### General Description

AirCell® connectors are designed specifically for use with Trilogy's AirCell® 50 and 75 Ohm 1/2" cables. This instruction only applies when the Power Coring Tool (PCT012) is used. **Instructions should be read thoroughly prior to connector installation.**

### Installation Tools

Power Coring Tool (PCT012)	Cable Cutter (TC63050)
Razor Knife (TC10099)	Inner Conductor Strip Tool (ICST)
3M Scotchbrite™ Pad	Adjustable Wrenches

### Prepare Cable for Connectorization

- 1) **Squarely cut the cable using a cable cutter.** Ensure that the cable is straight for at least six inches behind the point where connector will attach. Ensure that the center conductor is centered (Figure 1).  
(Tool required: Cable Cutter)
- 2) **For Ultra-Flex R jacket type** (otherwise proceed to step 3). Remove 3" of jacket using razor knife (Figure 2).  
(Tool required: Razor Knife)
- 3) **Insert cable end into prep tool and turn tool clockwise** to remove material (Figure 3). With the Power Coring Tool, use slow, steady speed. When tool no longer cuts away material and spins freely, **remove** tool while continuing to turn. **For R jacket type**, the exposed outer conductor will be 2.25" when prep is completed.  
(Tool required: Power Coring Tool)
- 4) **Remove disk remnants** from center conductor using razor knife or Inner Conductor Strip Tool. Remove adhesive from center conductor using a 3M pad (Figure 4).  
(Tools required: Inner Conductor Strip Tool or Razor Knife and 3M Scotchbrite™ Pad)



Figure 1



Figure 2

Figure 3



Figure 4

Figure 5

### Connectorization

- 5) **Slide** back-nut of connector onto prepared cable end. Back-nut should snap into place. Center conductor will protrude .38" (Figure 5). **Slide** front-nut onto center conductor. **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 6).  
(Tool required: Adjustable Wrenches)

### Seal the Connector

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



Figure 6

Figure 7

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

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