

For AirCell® Transline and Radiating Cables – 1/2", 5/8", and 7/8" 75 Ohm

3B

For use with cable prep tools TC1000 & TC10099 (Manual) and N Connectors
(for other cable prep tools use instructions 3, 3A, 3C, and 3D)

General Description

AirCell® connectors are designed specifically for use with Trilogy's AirCell® 75 Ohm Transline and Radiating cables. **Instructions should be read thoroughly prior to connector installation.**

Installation Tools

Tube Cutter (TC1000)	Razor Knife (TC10099)
File	Hacksaw
Adjustable Wrenches	Small Ruler or Wire
3M Scotchbrite™ Pad	Heat Shrink (or Weatherproofing Kit)



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) **Cut .75" of outer conductor and jacket using tube cutter. Stop cutting** when outer conductor is cut through. Do not crush cable end. **Cut** through the dielectric tube using razor knife and remove material (Figure 2).
(Tools required: Tube Cutter and Razor Knife)
- 3) **Remove cable jacket** (Figure 3)
 - a) **For standard jacket cables, remove .63"** of jacket for 1/2" cable or 1" of jacket for 5/8" and 7/8" cables.
(Tool required: Razor Knife)
 - b) **For riser rated cables, remove 5"** of jacket and tape using razor knife.
(Tool required: 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)

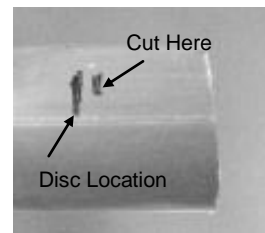


Figure 1

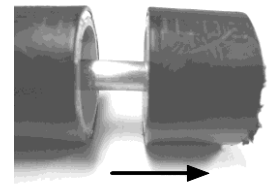


Figure 2

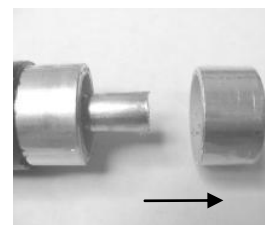


Figure 3



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** the front-nut while **turning** back-nut until back-nut reaches positive stop (Figure 5).
(Tools required: Adjustable Wrenches)



Figure 5



Figure 6

Seal the Connector

- 7) **For riser rated cables, 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.