

For AirCell® Plenum, Conduit, and In-Conduit 1/2" 50 Ohm Cables 2D

For use with Power Plenum Strip Tool PPT012-PIM, Flaring Tool PPT-FT, and PIM Connector

AirCell® connectors are designed specifically for use with Trilogys AirCell® 50 Ohm 1/2" cables. This instruction only applies when the Power Plenum Strip Tool (PPT012-PIM) and Flaring Tool (PPT-FT) are used.

Instructions should be read thoroughly prior to connector installation.

Power Plenum Strip Tool* (PPT012-PIM)
Flaring Tool (PPT-FT) (Figure 1)

Additional Tools Required (Figure 2)

Cable Cutter (TC63050)
 Abrasive Pad

Razor Knife
 Adjustable Wrenches

Prepare Cable for Connectorization

- 1) **Cut the cable** while rotating the cable cutter to attain a rounded cable end. Straighten the cable at least 12 inches from the cut.
- 2) **Remove 1 ¼ inch of jacket** from the end of the cable. **Insert** a gauge into the cable to determine the location of the next disc and mark the location on the outer conductor.
- 3) **Cut the outer conductor** with the cable cutter in the 2nd corrugation valley behind the mark. Use a rotating motion to ensure the cable end is round (Figure 3). **Cut the center conductor** flush with the outer conductor and check that the center conductor remains centered (Figure 4).
- 4) **Insert cable end into Power Plenum Strip Tool and turn Power Plenum Strip Tool clockwise*** to remove material (Figure 5). Operate the Power Plenum Strip Tool in the 300-700 rpm range at steady speed. When Power Plenum Strip Tool no longer cuts away material and spins freely, **remove** Power Plenum Strip Tool while continuing to turn. Inspect the end of the cable to ensure the tool finalized its cut on a corrugation peak (Figure 6). A correctly prepared cable end has 1 inch of outer conductor exposed and 1/4 inch center conductor exposed.
- 5) **Remove** any dielectric disc and adhesive from the center conductor using the razor knife and abrasive pad while holding the cable end down. Do not allow debris to get inside the cable.

Connectorization

- 6) **Slide the back half** of the connector onto the cable. It should snap into the first corrugation valley of the outer conductor (Figure 7).
- 7) **Press** the flaring tool against the cable and ensure that the flaring pin is inside the outer conductor. Rotate the flaring tool to flare the outer conductor. (Figure 8). Remove any remaining debris.
- 8) **Slide the front half** of the connector onto the center conductor. **Hand-tighten** the connector halves together by turning only the back half.

Tighten the Connector

- 9) **Continue tightening the connector** with wrenches by **holding** the front half while **turning** the back half until the connector reaches a positive stop (Figure 9).

* Ensure that Power Plenum Strip Tool is free of debris prior to each use.

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.



Figure 1

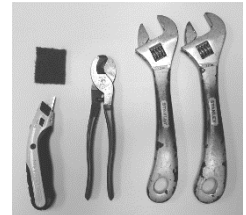


Figure 2

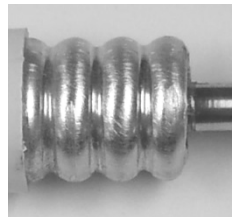


Figure 3

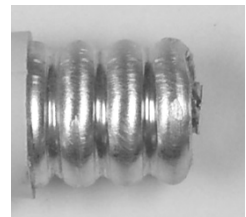


Figure 4



Figure 5

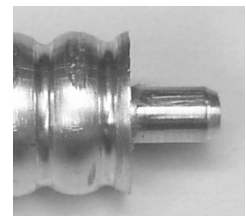


Figure 6



Figure 7

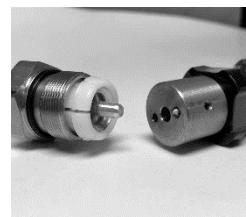


Figure 8



Figure 9