AirCell®

Connectors & Tools

TRILOGY Communications

Connector Installation Instructions

For AirCell® High Temperature Plenum 1/2" 50 Ohm Cables

2E

For use with **Power Plenum** Strip Tool PCT012-2

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 Plenum Strip Tool (PCT012-2) is used.

Instructions should be read thoroughly prior to connector installation.

Power Plenum Strip Tool* (Figure 1)
(PCT012-2)

Additional Tools Required (Figure 2)

Power Drill
Abrasive Pad
Inner Conductor Strip Tool (ICST)
Razor Knife
Adjustable Wrenches
Cable Cutter (TC63050)

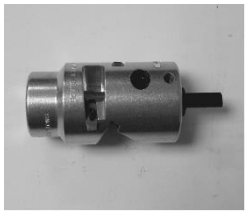

Figure 1

Figure 2

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 3).

2) **Insert cable end into Power Plenum Strip Tool and turn Power Plenum Strip Tool clockwise*** to remove material (Figure 4). 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.

3) **Remove dielectric remnants** (Figure 5) by using razor knife to cut dielectric even with the outer conductor (Figure 6). Remove adhesive from center conductor using Inner Conductor Strip Tool (Figure 7) and abrasive pad (Figure 8). Remove any remaining debris from inside of cable.

Figure 3

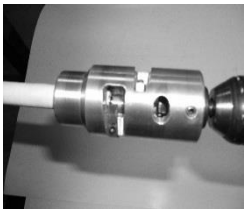

Figure 4

Figure 5

Figure 6

Connectorization

4) **Slide** back-nut of connector onto prepared cable end. Back-nut should snap into place. Center conductor will protrude .38" (Figure 9). **Slide** front-nut onto center conductor. **Hand-tighten** connector by turning the back-nut.

Tighten the Connector

5) **Tighten the connector** with wrenches by **holding** front-nut while **turning** back-nut until back-nut reaches a positive stop (Figure 10).

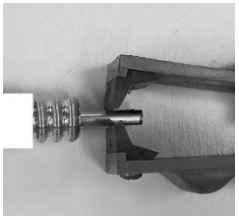

Figure 7

Figure 8

***** 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.

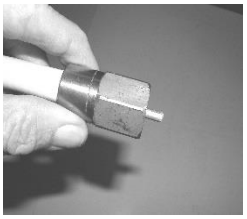

Figure 9

Figure 10