



Replacing a Four-Conductor Modular RJ11 Line Plug

Program: Electrician Technician

Course: EL160 - Low Voltage Application

Objectives: Under the supervision of your instructor, you should be able to do the following:

- Install raceways, boxes, and enclosures for VDV systems

Lab Equipment:

- N/A

Required Tools:

- Stripping/crimping four-wire modular plug installation tool

Materials:

- 3' – Four-conductor flat ribbon telephone cord
- 1 – Four-conductor RJ11 modular telephone plug

Safety (PPE):

- Safety glasses

Resources: N/A

Required Time: 60 Minutes

Shop Maintenance:

- All work will cease 20 minutes prior to the end of class.
- All work areas must be cleaned.
- Tools and equipment must be cleaned and returned to the designated areas (cage, tool room, cabinets etc.)
- Any broken or missing tools must be reported immediately.
- Tools and equipment are student's responsibility

Procedures:

1. Refer to Figure 1 for components required for this project.
2. Cut one end square on a specified length of four-conductor flat telephone cord.
3. Insert the cut end into the stripping slot on the plug installation tool (Figure 2).
4. Squeeze the handle firmly and pull the cord away from the tool to strip away the outer insulation.
5. Inspect the stripped four-conductor cord (Figure 3) for any damage. If damage is evident.
6. Place one modular four-conductor plug into the tool cavity (See Figure 4 and 5).
7. Insert the stripped cord into the modular plug (Figure 6).
8. Squeeze the handle firmly and release it.
9. Remove the plug and cable assembly.
10. Pull gently on the plug to make sure a secure connection had been formed. The finished assembly is shown in Figure 7.

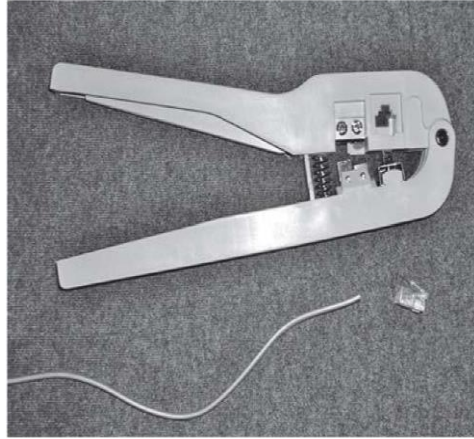


Figure 1 ■ Plug Installation Tool, Cable, and Connector



Figure 2 ■ Stripping the Cable



Figure 3 ■ Completed Stripped Cable End

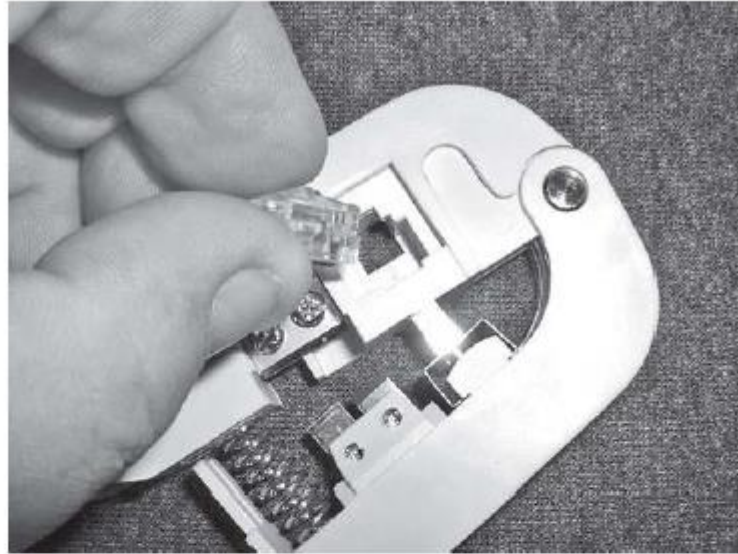


Figure 4 ■ Placing a Modular Plug into the Tool Cavity

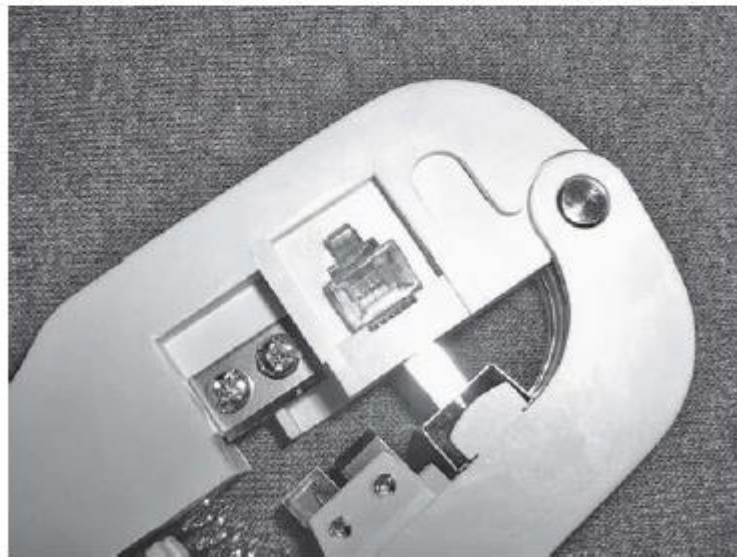


Figure 5 ■ Modular Plug Properly Inserted into the Tool Cavity

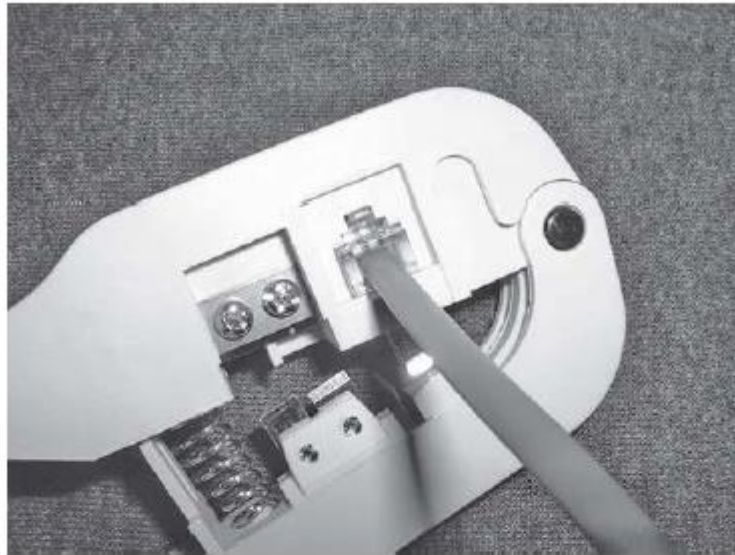


Figure 6 ■ Inserting the Cord into the Plug for the Crimping Process



Figure 7 ■ Finished Plug Assembly