

Figure 1

1. INTRODUCTION

This instruction sheet provides termination and installation procedures for Communications Outlet Dual Port Kits and the various connectors that can be used with these kits. Unshielded kits are available with 110Connect or AMP-BARREL* Card Edge Connectors and each has a different method of termination. Shielded kits are available with AMP-BARREL Card Edge Connectors only.

NOTE



Dimensions on this sheet are in millimeters [with inches in brackets]. Figures are for reference only and are not drawn to scale.

Reasons for reissue of this instruction sheet are provided in Section 10, REVISION SUMMARY.

2. INSTALLATION

Dress cable as shown in Figure 2.

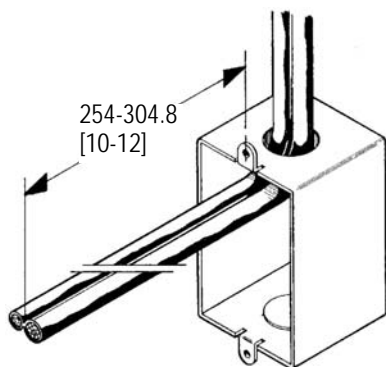


Figure 2

3. TERMINATION PROCEDURES

NOTE



The 110Connect card edge connector comes pre-installed in the dual port housing. The housing functions as a secure holding fixture while terminating.

NOTE



The AMP-BARREL card edge connector must be terminated prior to installation into the dual port housing.

3.1. 110Connect Card Edge Connector

NOTE



The 110Connect connector is approved for use with 24 AWG solid wire with a maximum outside insulation diameter of 1.22 mm [.048 in.] (100 ohm UTP or STP).

1. Prepare the cable as shown in Figure 3 by removing approximately 50.8 mm [2 in.] of the cable jacket.

2. Lace the twisted-pair conductors into the strain relief according to the appropriate color code. Lacing the center pairs first will help with proper wire dress.

CAUTION



Be sure to maintain the pair twists to within 13 mm [.50 in.] of the termination with Category 5 cables.

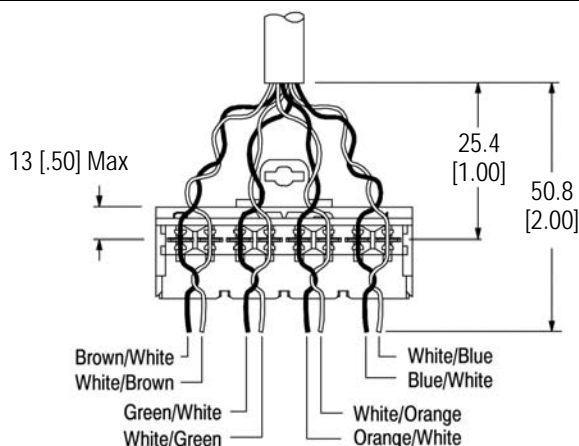


Figure 3

3. Terminate conductors using Impact Tool 569994-1, D814 impact tool, or KRONE single wire tool. See Figure 4.

NOTE



Always use the low-impact setting of the impact tool. The cutoff blade may be used to trim conductors.

NOTE



Stuffer caps are supplied in installation kits to provide additional strain relief. Stuffer caps are an option for panel application.

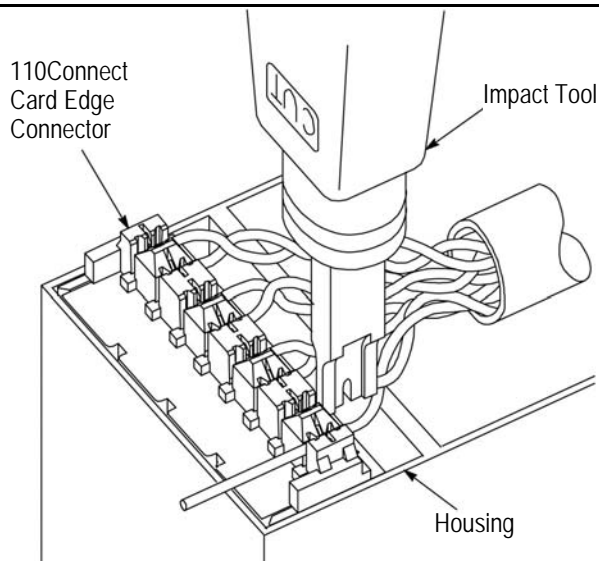


Figure 4

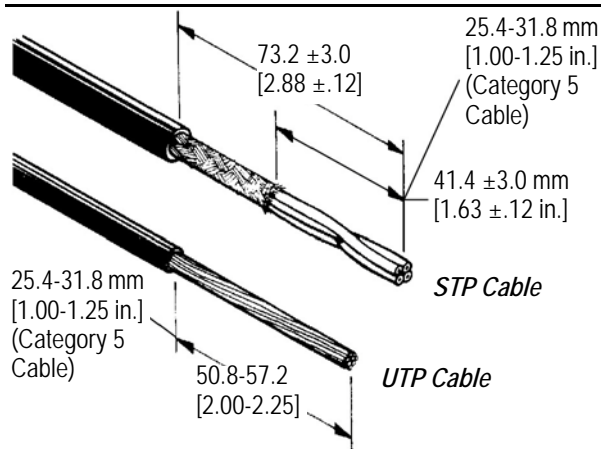
3.2. AMP-BARREL Card Edge Connector

1. Trim the cable according to Figure 5.

NOTE



The AMP-BARREL connector is approved to terminate multi pair, copper conductors (22, 24, or 26 AWG shielded or unshielded, up to 8 pair) used in building communications wiring.



NOTE: The jacket on Category 5 cable should be stripped 25.4 to 31.8 mm [1 to 1.25 in.].

Figure 5

KRONE is a trademark.

2. Insert conductor ends into appropriate slots of stuffer cap, following the color code shown beneath the slots. Make sure that the ends are flush with the back of the conductor slots. Maintain wire twist as far as possible on data cable. See Figure 6.

NOTE



A stuffer cap with a universal label is used for both the STP (150 ohm-red, green, orange, and black) and the UTP (100 ohm) cables.

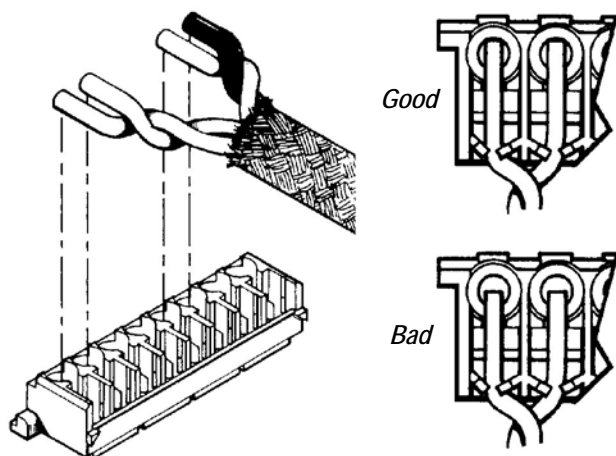


Figure 6

CAUTION



Insert only one wire per slot.

CAUTION



Be sure to maintain the pair twists to within 13 mm [.50 in.] of the termination with Category 5 cables.

NOTE



Stuffer Punch Down Tool 556706-1 may be used to insert wires into stuffer caps.

NOTE



Color code must be followed to ensure proper system operation.

3. Align stuffer cap with contacts and press stuffer cap over contacts. Using slip joint pliers, fully seat the stuffer cap. See Figure 7.

CAUTION



Do NOT press on latch or mounting screw boss area in the middle of the connector.

NOTE



Press on each side of latch or mounting screw boss until stuffer cap has bottomed with connector.

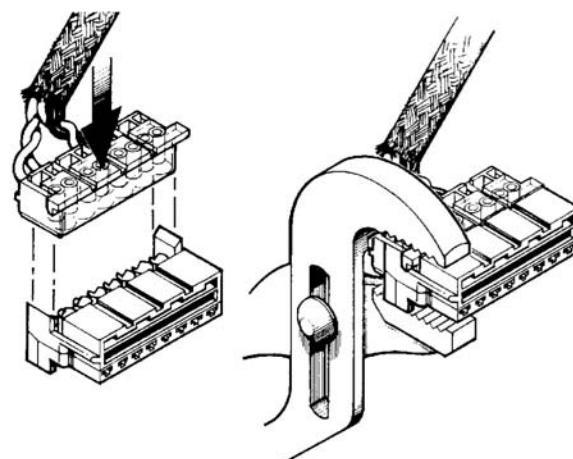


Figure 7

NOTE



To avoid future confusion, all outlets of a building should be wired identically.

NOTE



The inside of the housing should be labeled by the installer according to the wiring junction.

4. INSERTION PROCEDURE (Figure 8)

For shielded applications, snap a connector into the back of the housing. For unshielded applications, insert a connector into the back of the housing and secure it with a screw.

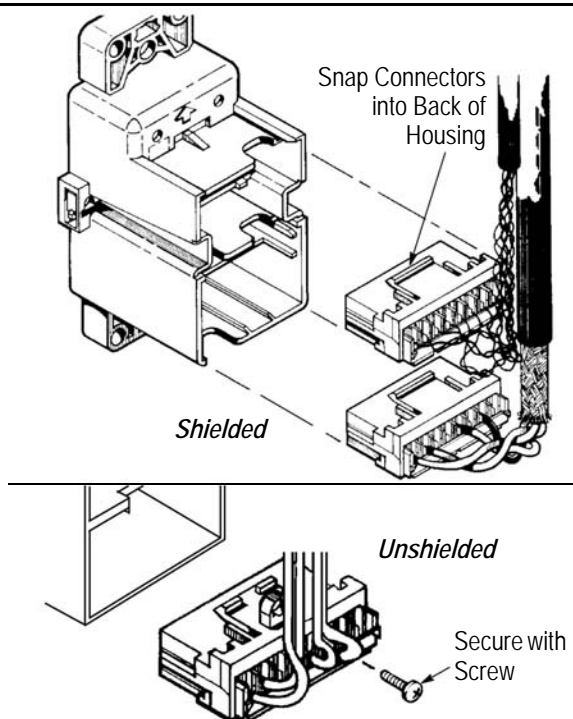


Figure 8

5. SHIELDED APPLICATIONS

5.1. Lower Port Shielding

1. Slip shield over cable as shown in Figure 9. Insert shield into guides in back of housing and push shield onto housing until latches snap into place.

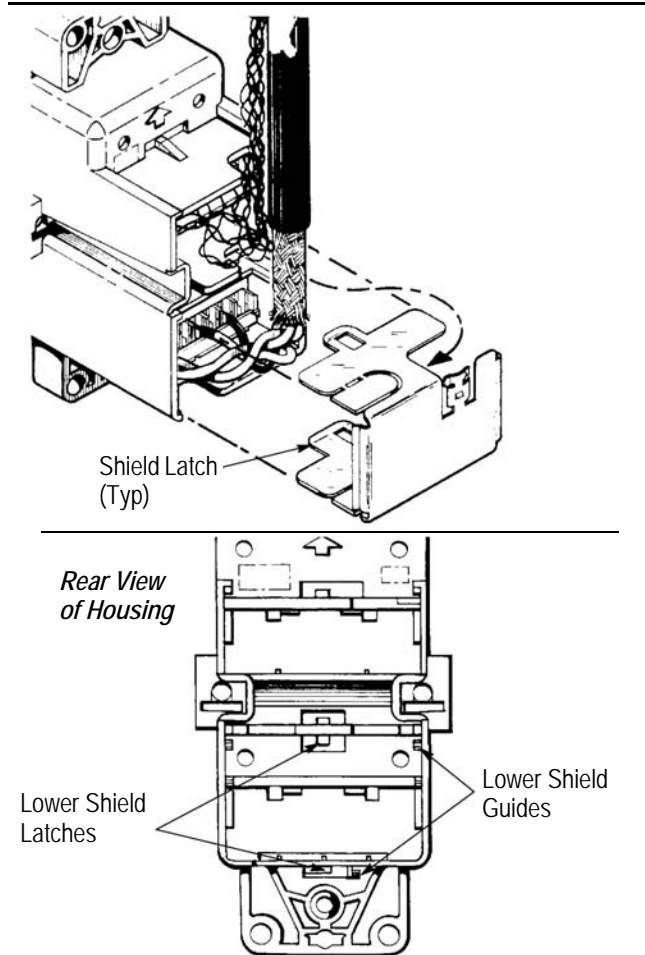



Figure 9

NOTE  To ensure optimum performance, be sure to follow national and local grounding ("earthing"), bonding, and EMC regulations and procedures.

2. Loop a cable tie around the shielded cable only. Partially tighten the tie and slide it down the cable, capturing the braid tightly against the tab on the shield. FULLY tighten and trim the cable tie using appropriate tool. See Figure 10.

NOTE



If required, mounting flanges may be trimmed for clearance in switch box. See Figure 11.

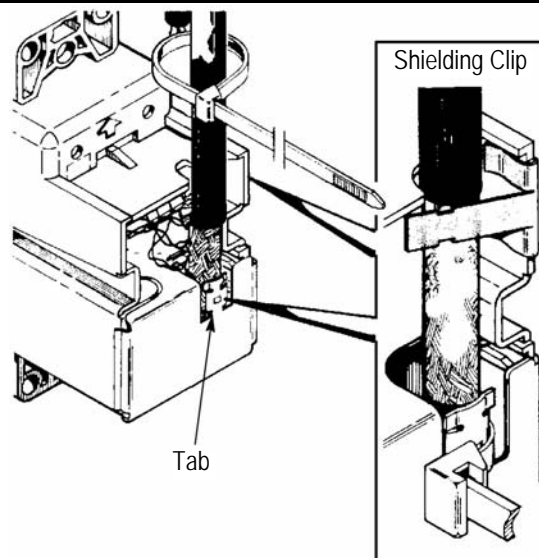
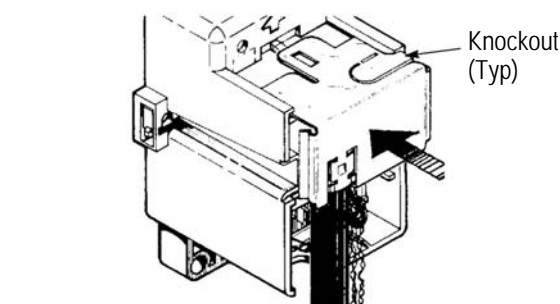


Figure 10



Rear View of Housing

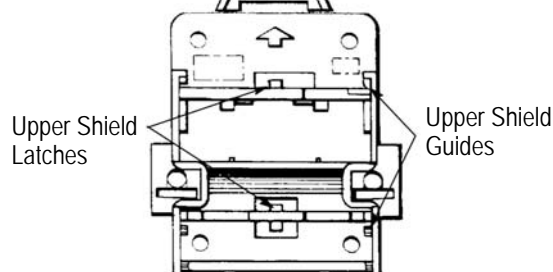


Figure 11

5.2. Upper Port Shielding (Figure 11)

This procedure is the same as lower port shielding (Paragraph 5.1.) except that the tab on the shield and the cable exit must be oriented downward. If both ports are to be shielded, remove knockouts from both shields and dress each cable through the other shield. Install upper and lower shields at the same time.

6. GROUNDED APPLICATIONS

6.1. Nonisolated (Normal) Ground (Figure 12)

If using a nonisolated ground system grounded at both the closet and at each Communications Outlet (which will minimize EMI radiation), mount each housing as delivered in a grounded metal switch box.

Push housing and excess cable back into switch box and secure housing to box using screws captive to the housing.

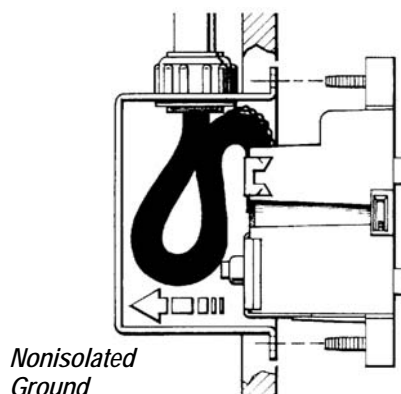


Figure 12

6.2. Isolated Ground (Figure 13)

If using an isolated ground system grounded only at the communications closet (to minimize ground loops), install nylon shoulder bushings and nylon washers (supplied with Communications Outlet Kit) as shown at each screw mount. First tape one turn of electrical tape around the body of the housing to insulate the housing from the metal switch box.

Using a screwdriver or similar tool, remove the thin plastic flash which secured each screw in the housing. Install a nylon shoulder bushing on the room side and a nylon washer between the housing and the switch box.

Re-install each screw to mount the box. Isolated grounding may also be achieved by using a plastic switch box. Push housing and excess cable back into switch box and secure housing to box.

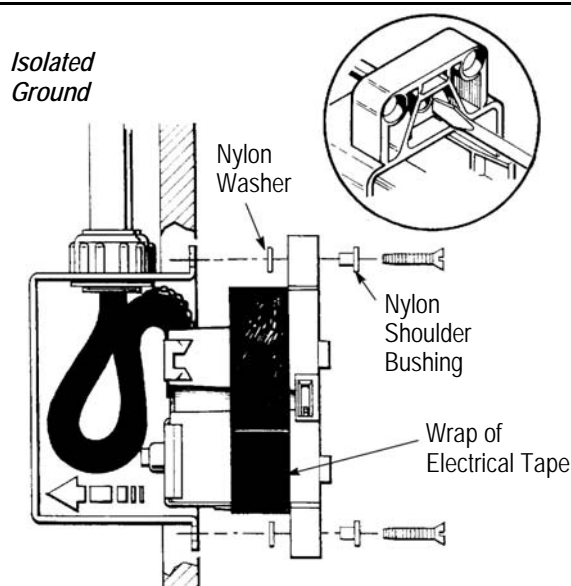


Figure 13

7. INSTALLATION OF INSERTS (Figure 14)

To install connector inserts, remove any protective dust covering from housing and push desired insert into appropriate port. Latches on insert must align with tabs on edge of housing. If a port is not used, install a blank insert into the port.

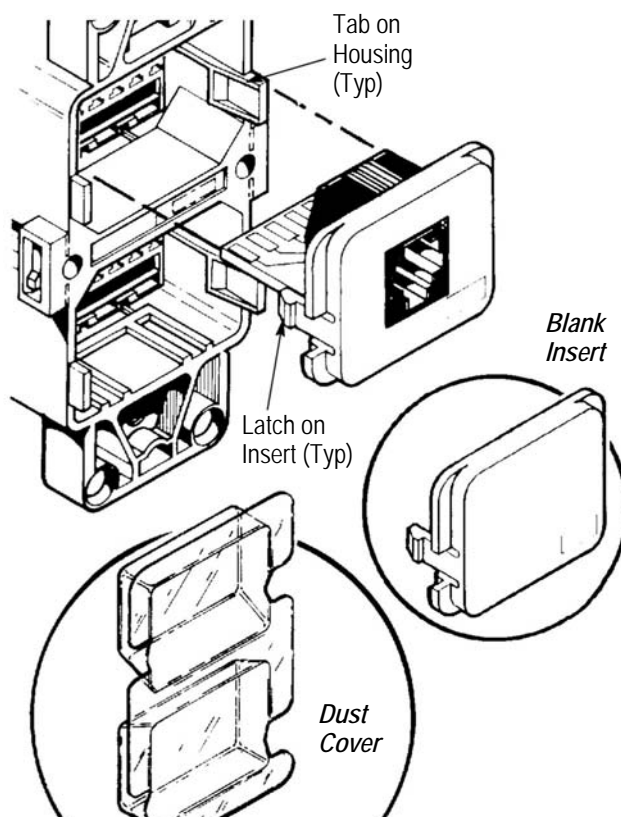


Figure 14

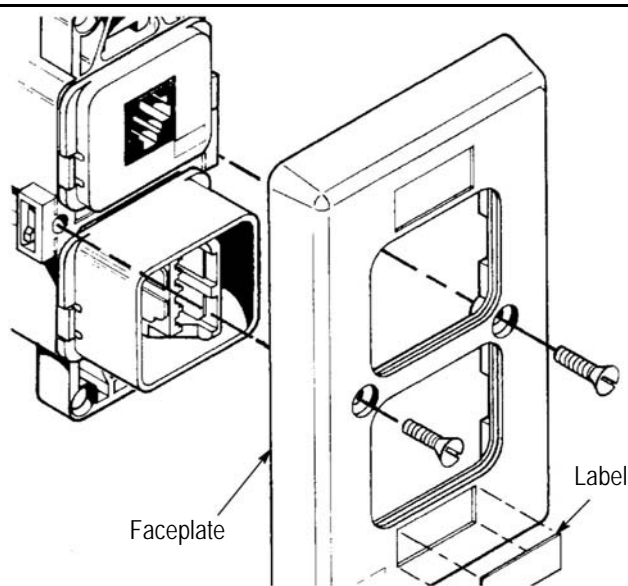
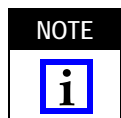


Figure 15

8. INSTALLATION OF FACEPLATES (Figure 15)

Make sure that tabs on edge of housing align properly with slots on back of faceplate. Label ports in the areas provided on the faceplate.



The subassembly qualifies with Underwriters Laboratories Inc. listing when one or more module inserts and a faceplate are used. If only one insert is used, a blank insert must be provided for the unused portion.

9. REMOVAL OF INSERTS (Figure 16)

1. Remove faceplate.
2. Insert a small screwdriver blade into gap on side of insert (between insert and tab on edge of housing) to disengage latch. As each latch is disengaged, rock insert to release that side.
3. Repeat procedure on other side; then pull insert out.



Do NOT try to pry insert out.

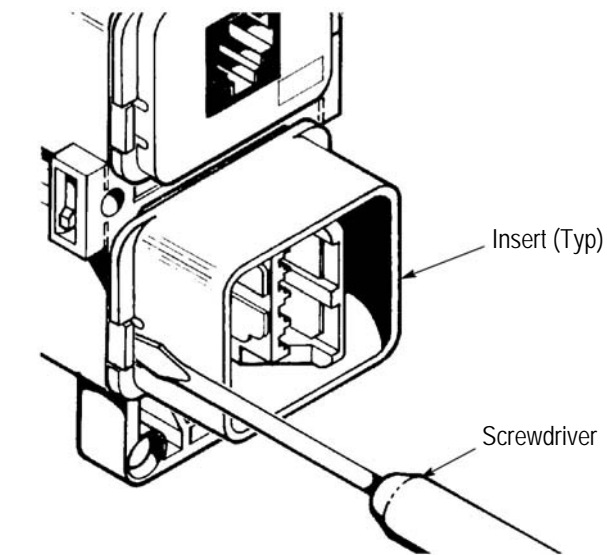


Figure 16

10. REVISION SUMMARY

- Updated document to corporate requirements
- New logo