

# PIC Wire & Cable

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## Termination Instructions

T-110939-01

Approved : *MCT*

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### Termination Instructions for PIC P/N 110939, RJ45 Shielded Jack for 2 Pair Ethernet Cables (for PIC Ethernet Cable P/N's E10424, E12424, E13424, E40424, & E61424)

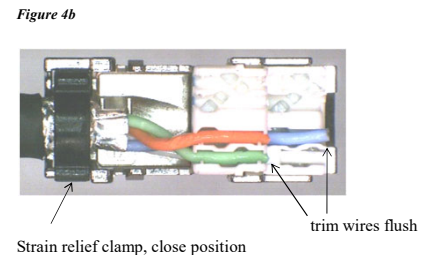
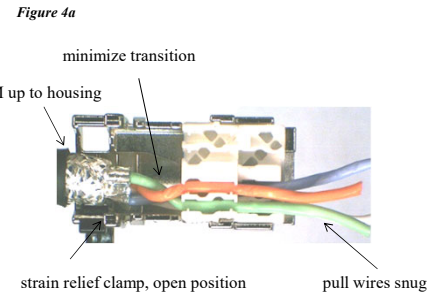
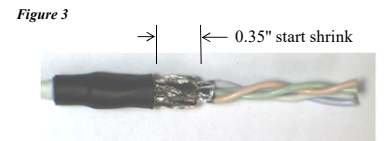
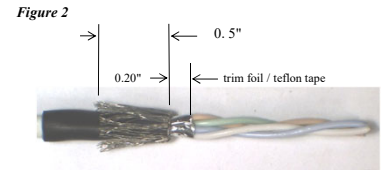
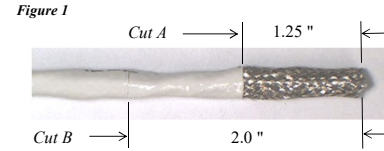
**Required Tooling :** X-acto Knife, Sharp Razor, Wire Cutters, Heat Gun,  
 PIC P/N 110701 Soft Jaw Clamping Pliers (see pic to right).  
 Note : Similar pliers acceptable



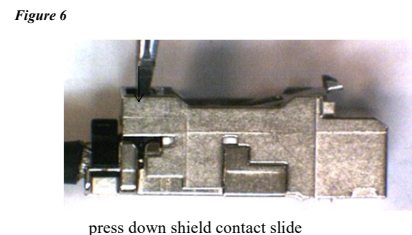
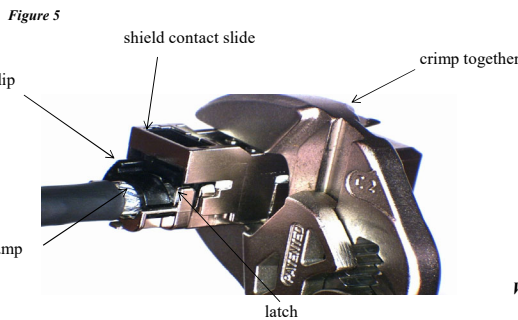
**Note:** Diameter of the cable determines the number of pieces of ATUM 8/2 x 1.0" shrink tube to use. Please see chart below for required qty needed.

Cable P/N	Qty. Needed
E10424	0
E40424	0
E12424	1
E13426	2

Dimensions in Inches (NOT to Scale)



- 1) Install labels (if applicable). Install ATUM 12/3 x 1.0" (larger dia.) shrink tube, then applicable qty per chart above of ATUM 8/2 x 1.0" (smaller dia.) shrink tube. Discard any unused pieces. Make Cut A @ 1.25" from cable end, through cable jacket (Fig. 1). Remove jacket/braid/foil. Make Cut B @ 2.0" from cable end, scoring the cable jacket (Fig. 1). Do Not nick or cut into wire braids. Remove jacket.
  - 2) Shrink all pcs (as applicable) of ATUM 8/2 x 1.0" tube(s) onto cable, starting at the end of cable jacket (cut B). Fold braids back over ATUM / Jacket as applicable, (Fig. 2).
  - 3) Trim braids to 0.50" length per fig. 2. Trim foil / teflon tape to 0.200" length from braid per fig. 2. Be very careful not to nick or cut into wire insulation. Inspect to verify insulation on wires after removing foil to verify insulation integrity on all wires.
  - 4) Install ATUM 12/3 x 1.0" shrink tube over the braids, and shrink onto braids and cable using a heat gun, starting @ .350" from exposed foil/wire pairs (Fig 3), to secure all wire braid ends.
  - 5) Separate each of the pairs for preparation of installation into the wire carrier. Maintain twist of each pair as much as possible. Install the pairs into the wire carrier, untwisting the pairs as least as possible. See fig 4a & pics below for wiring configuration & wire carrier pin-out.
- Notes :** Disregard color designation printed on wire carrier  
 Open strain relief clamp and install wires.  
 Install the wires in the bottom row first and pull wire ends.  
 Install the remaining wires into the top row of the wire carrier.  
 Wires in the top row must be pushed down into respective slots firmly (Fig. 4a).  
 Install the wires snug to minimize transition length between cable exit and wire carrier.
- 6) Before applying strain relief clamp, position the cable so that the ATUM shrink edge is up to the wire carrier housing (Fig. 4b). Close and crimp strain relief clamp using soft jaw clamping pliers until the clamp latches into place. Trim off each wire flush with the end of each assigned wire carrier cavity (Fig. 4b).
  - 7) Align the panel jack body to fit onto the wire carrier & cable and push together. Adjust the soft jaw clamping pliers height to crimp squarely on the wire carriers and compress the body and wire carrier sections firmly together (Fig. 5), until latch on each side snaps into place.
  - 8) Engage shield contact by pressing down on shield contact slide with a flat head screw driver (Fig. 6). Ensure shield contact is engaged by making sure shield contact is in contact with the cable.



#### Wiring Configurations

Pin	ISDN	Pin	Ethernet
NA		1	Blue
NA		2	White
3	Green	3	Green
4	Blue	NA	
5	White	NA	
6	Orange	6	Orange
NA		NA	
NA		NA	

#### Carrier pin out (Disregard color designation)

