

PIC Wire & Cable

Termination Instructions

T-110937

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Approved : 
Distribution : USER

Date : 04/28/16
Rev. 0
Uncontrolled if Printed

Termination Instructions for PIC P/N 110937, RJ45 Cat 6a Shielded Jack (568A configuration Only)

(for E50824, E6A0824, E6A2824, E6A3824, E6A3826, E6A5824, E6A5826, E6A6824 & E6A6826 Ethernet Cables)

Required Tooling :
X-acto Knife, Sharp Razor, Wire Cutters
PIC 110701 Soft Jaw Clamping Pliers
(Note: Similar Pliers are acceptable)
Heat Gun



- 1) Make Cut A @ 1.25" from cable end, through cable jacket (Fig. 1). Remove jacket and braids. Make Cut B @ 2.00" from cable end, scoring the cable jacket (Fig. 1). Do Not nick or cut into wire braids.
- 2) Remove cable jacket @ Cut B. Fold braids back over the cable jacket, partially combing the braids out (Fig. 2). Make Cut C, trimming off the braids @ 0.50" from exposed foil (if applicable) (Fig. 2).
- 3) Install ATUM 12/3 dual wall shrink \times 1.0" lg. over the braids, and shrink onto braids and cable using heat gun, starting @ 0.35" from exposed foil or wires (Fig 3), to secure all wire braid ends.
- 4) Carefully score and remove foil (if applicable) @ 0.20" from end of braids (Fig. 4). For individually shielded pairs, remove foil from each pair 0.20" from end of braids. Trim off teflon tape just past the end of foil (or jacket - E6A3826). Do Not nick or cut into wire insulation. Inspect wires to verify integrity.
- 5) Fold out the wire pairs and trim off cable center spline between pairs (if applicable), as short as possible (Fig 5a). Do Not nick or cut into wire insulation. Inspect to verify insulation integrity on wires. Separate and straighten pairs for installation into the wire carrier, while maintaining pair twist where the wires exit the foil/tape section (Fig. 5b). Straighten out the remaining wire lengths.
- 6) Open strain relief clamp, Install the pairs into the wire carrier per the color code (Figs. 6a & 6b). Install the pairs for the bottom row first (White / Brown, Brown, Green, White / Green), and pull wire ends snug to minimize transition length between cable exit and wire carrier. Install the remaining pairs into the wire carrier top row per the color code (Figs. 6a, 6b), pull wire ends snug to minimize transition length between cable exit and wire carrier slots. Maintain pair twist as intact as possible between cable exit and wire carrier entry (Fig. 6b). Wires in the top row must be pushed down into their respective slots firmly (Fig. 6b).
- 7) Before applying strain relief clamp, position the cable so that the ATUM shrink edge is up to the wire carrier housing (Fig. 6b). 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. 6c).
- 8) 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. 7), until latch on each side snaps into place.
- 9) Engage shield contact by pressing down on shield contact slide with a flat head screw driver (Fig. 8). Ensure shield contact is engaged by making sure shield contact is in contact with the cable.

Dimensions in Inches (NOT to Scale)

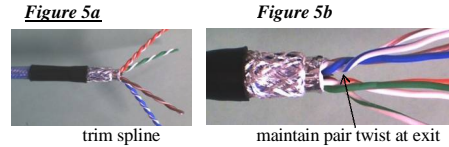
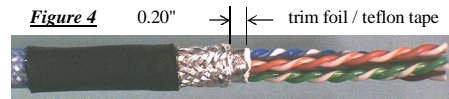
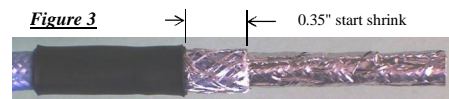
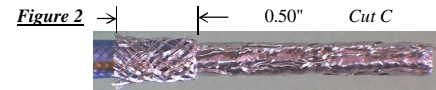
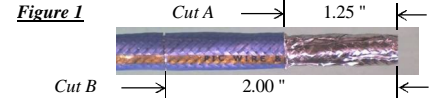
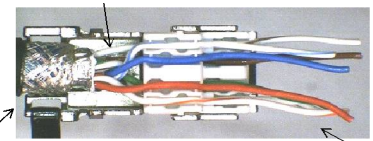


Figure 6a Color Code Marking

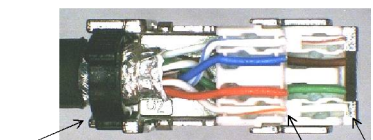


Figure 6b minimize transition



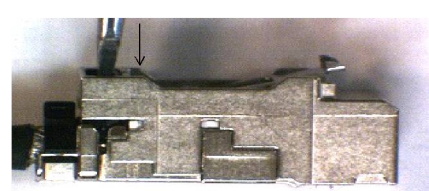
ATUM up to housing pull wires snug

Figure 6c



Strain relief clamp, close position trim wires flush

Figure 8



press down shield contact slide

Figure 7

