


# PIC Wire & Cable

A Division of the Angelus Corporation  
 Ph (262) 246-0500 Fax (262) 246-0450 www.picwire.com  
 PO Box 330 Sussex, WI 53089

## Termination Instructions

T-110826

Approved : 

Date : 06/23/14

Rev. 1 (05/31/16)

Distribution : USER

Uncontrolled if Printed

### Termination Instructions for PIC P/N 110826, RJ45 Cat 6a Shielded Plug (568A configuration Only)

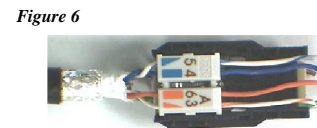
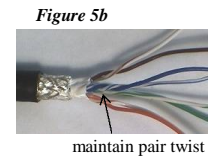
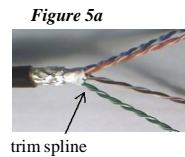
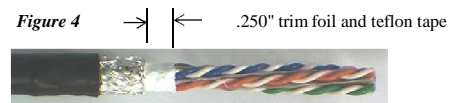
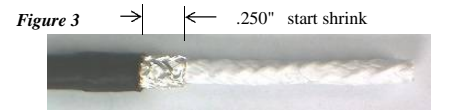
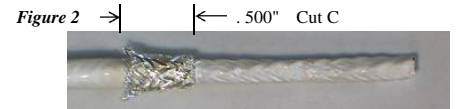
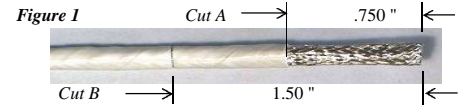
(for PIC Ethernet Cables P/N E6A3826 & E6A6826)

Required Tooling : X-acto Knife, Sharp Razor, Wire Cutters  
 PIC 110701 Soft Jaw Clamping Pliers  
 (Note : Similar Clamping Pliers can be used with care)  
 Heat Gun

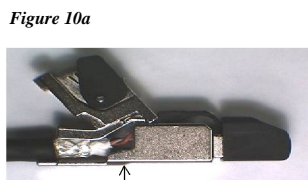
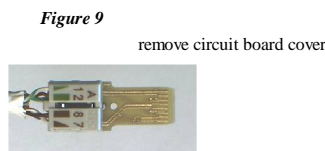
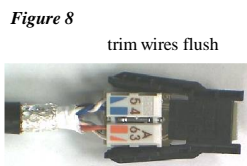


Dimensions in Inches (NOT to Scale)

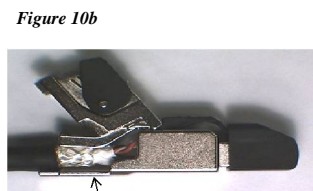
- 1) Make Cut A @ .750" from cable end, through cable jacket (Fig. 1). Remove jacket and braids. Make Cut B @ 1.50" from cable end, scoring the cable jacket (Fig. 1). Do Not nick or cut into wire braids.
- 2) Remove cable jacket @ Cut B. Fold braids back over the cable jacket, partially combing the braids out (Fig. 2). Make Cut C, trimming off the braids @ .500" from exposed teflon tape (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 @ .250" from exposed teflon tape (Fig 3), to secure all wire braid ends.
- 4) Carefully score and remove foil (if applicable) @ .250" from end of braids (Fig. 4). Trim off teflon tape just past the end of foil. Do Not nick or cut into wire insulation. Inspect to verify insulation integrity on all wires.
- 5) Fold out the wire pairs, and trim off cable spline between pairs, 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 tape section (Fig. 5b).
- 6) Install the pairs into the wire carrier per the color code on the load bar (Fig. 6). Install the wires firmly, maintaining the pairs' twist between cable exit and wire carrier entry (Fig. 6).
- 7) Adjust the soft jaw clamping pliers height to crimp squarely on the wire carriers (Fig. 7). Keeping wire pairs firmly in the wire carrier (wire transition as short as possible), crimp the wire carriers onto the circuit board until seated flat on the circuit board (Fig. 7).
- 8) Trim off wire ends flush with the end of the wire carrier (Fig 8.). Remove the black protective cover from the circuit board (Fig. 9).
- 9) Install the circuit board / wire carriers / cable into the RJ45 connector body, until fully seated (Fig. 10a). The wire carrier is keyed to align correctly with the connector body.
- 10) With the circuit board / wire carriers / cable fully seated into the RJ45 connector body, push the cable firmly into the connector until the shields are aligned with the clamp sections of the connector (Fig. 10b). Close the clamp section, ratchet the clamp latch until secure using the soft jaw clamping tool (Fig. 10c). Remove the RJ45 Plug interface cover as needed (Fig. 10c).



Crimp load bar & wires onto circuit board



insert circuit board / load bar / wires fully



align shields under clamp



ratchet clamp latch until snug

remove RJ45 cover