

A Division of the Angelus Corporation

Ph (262)-246-0500 Fax (262) 246-0450 www.picwire.com
W220 N1051 Springdale Road, Waukesha, WI 53186

Approved :

PFT

Date : 06/23/16

Rev. 2 (07/21/22)

Distribution : USER

Uncontrolled if Printed

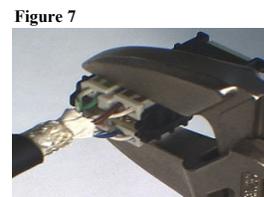
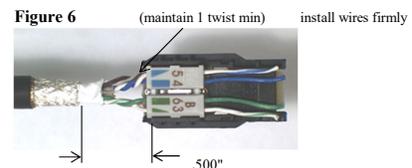
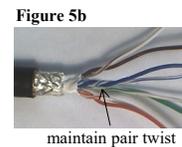
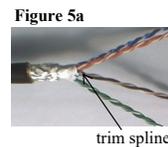
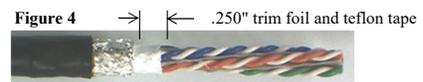
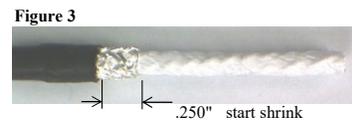
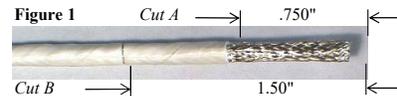
Termination Instructions for PIC P/N 110825, RJ45 Cat 6a Shielded Plug (568B configuration Only)
(for PIC Ethernet Cables P/N E6A3826 & E6A6826)

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



- 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 of wires. Separate and straighten pairs for installation into the wire carrier. Maintain at least one twist in each pair between the exit of the teflon tape section and wire carrier (Fig. 5b).
- 6) Install the pairs into the wire carrier per the color code on the load bar (Fig. 6). Pull wires through the wire carrier firmly, to achieve .500" distance between braids and wire carrier (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).

Dimensions in Inches (NOT to Scale)



crimp load bar & wires onto circuit board

Figure 8



trim wires flush

Figure 9



remove circuit board cover

Figure 10a



insert circuit board / load bar / wires fully

Figure 10b



align shields under clamp

Figure 10c



ratchet clamp latch until snug

remove RJ45 cover