


PIC Wire & Cable

Termination Instructions

T-111009

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Approved : 
Distribution : USER

Date : 06/13/2017
Rev. 0 (06/13/17)
Uncontrolled if Printed

Termination Instructions for PIC P/N 111009, RJ45 Cat 6a Shielded Plug (568B configuration Only)

(for 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) Slide on backshell nut, cord grip provided with connector and 8/2 ATUM x 0.75". (**Fig 1**). Make Cut A @ 1.25" from cable end, through cable jacket (**Fig. 1**). Remove jacket, braid, foil, tape and spline, being careful not to nick or cut pairs. (**Fig 2**)

Dimensions in Inches (NOT to Scale)

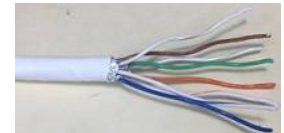
Figure 1 Cut A → 1.25" ←



Figure 2



Figure 3



- 2) Untwist pairs and straighten them out as shown in (**Fig 3**). Insert wires into load block, matching the colors of the wires to the colors on the block. Using needle nose pliers, pull on each wire one at a time to ensure each wire is firmly in the load block.

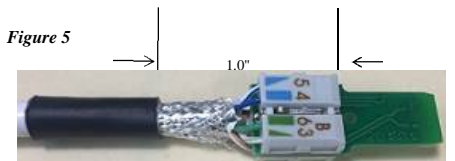
Figure 4



- 3) Adjust the soft jaw clamping pliers height to crimp squarely on the wire carriers (**Fig. 4**). 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. 4**).

- 4) Make cut in jacket 1.0" from front of load block to expose braids for shielding connection. (**Fig 5**) Shrink 8/2 ATUM at edge of jacket for strain relief grip point.

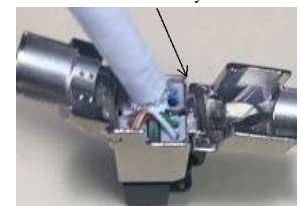
Figure 5



- 5) Trim off wire ends flush with the end of the wire carrier (**Fig.5**). Remove the black protective cover from the circuit board (**Fig. 5**).

- 6) Install the circuit board / wire carriers / cable into the RJ45 connector body, until fully seated (**Fig. 6**). The wire carrier is keyed to align correctly with the connector body.

Figure 6



- 7) With the circuit board / wire carriers / cable fully seated into the RJ45 connector body, push the cable firmly into the connector until the shields align with the shield contacts. Close main housing and slide up cord grip making sure to align the sides with the groove in the housing. (**Fig 7**) Tighten the clamp nut fully onto housing. (**Fig. 8**).

Figure 7



Figure 8

