


# PIC Wire & Cable

## Termination Instructions

**T-110558**

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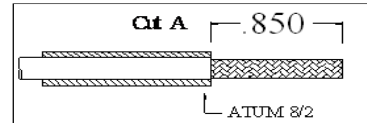
### Termination Instructions for PIC Shielded RJ45 Plug Connector P/N 110558 (for PIC Ethernet Quad Cable P/N E51424)

Required Tooling :	PIC P/N 110288 Crimp Tool (Sentinel P/N 900007), Heat Gun
Recommended Hand Tools :	X-acto Knife, Sharp Razor, Wire Cutters, Locking Tab Heat Shield, Eye Loupe / Magnifier

All dimensions in inches : NOT TO SCALE

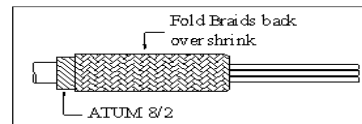
- 1) Install Labels (if any), ATUM 12/3 (larger diameter heat shrink) and ATUM 8/2 (smaller diameter heat shrink) onto cable.
- 2) Make Cut A @ 0.850" from end, through Jacket only. DO NOT nick or cut into the braids. Remove the jacket (Fig 1).
- 3) Shrink the smaller ATUM tubing onto the cable, starting at the end of the jacket (Fig 1).

Figure 1



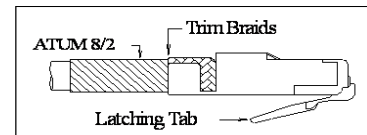
- 4) Flare the wire braid out. Fold the wire braid back over the jacket and ATUM (Fig 2). Flare the strip braid out and fold back over the outer braid (Fig 2). Remove the PTFE (Teflon) tape up to folded braids. Move wires to allow the filler rod (in the middle of the wires) to be trimmed off as short as possible.

Figure 2



- 5) Bend the connector strain relief tab down, to allow entry of wires. Install wires into the connector body, using the appropriate pin-out (see figure 4 below if applicable).
- 6) To complete full insertion, push while gripping folded braids. Proper insertion is indicated by viewing ALL of the wire conductors through the front of the connector body. The use of a magnifying device is recommended.
- 7) Bend the connector strain relief tab back up to original position, keeping braids within the strain relief tab.

Figure 3



- 8) Verify full insertion before crimping the connector. Crimp using PIC P/N 110288 crimp tool. Verify the location of wires w/magnifier. Trim any braids past the end of the crimped strain relief (Fig 3).
- 9) Temporarily shield the RJ45 latching tab from excessive heat while shrinking the ATUM 12/3 (larger tubing), using aluminum foil or similar material as a heat shield. Shrink starting at the front end of the connector cavity (opening in shield) on the top of the connector as shown (Fig 3). The ATUM should cover the rear of the connector and onto the cable. Verify that the shrink does not impede full travel of the Latching Tab on the bottom of the connector.

Figure 4

