

PIC Wire & Cable

Termination Instructions

T-11174

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Termination Instructions for PIC P/N 111174 - RJ45 PLUG WITH ATUM STRAIN RELIEF (for E6A5826 & E74826 ETHERNET CABLES)

Required Tooling :	PIC P/N 111183 Crimp Tool, Heat Gun
Recommended Hand Tools :	X-acto Knife, Sharp Razor, Wire Cutters, Locking Tab Heat Shield, Magnifier, Small Side Snips

All Dimensions in inches - Not to Scale

- 1) Install Labels (if applicable), then install the 1" long piece of 12/3 ATUM.
 Shrink the 1 inch piece of 8/2 ATUM starting at .970" from the end of the cable (Fig. 1).
- 2) Make Cut A at .675" from the end of the cable, through the jacket only. DO NOT nick cut into the braids. Remove the jacket, and roll the braids back over the jacket and the ATUM (Fig. 2).
- 3) Remove the foil shields around each pair at Cut A to expose the twisted pairs (Fig. 3).
 Verify insulation integrity.
- 4) Carefully straighten each wire. Align wires into desired wire configuration per work print, and install wires into the load bar. Use installed load bar to "comb" or work the wires into shape, until thoroughly straight for approximately half the cut length. Set far edge of load bar at .620" from the jacket and trim conductors flush (Fig. 4).
- 5) Bend the connector strain relief tab down, to allow entry for wires. Install wires into the connector body, keeping alignment intact. To complete full insertion, push cable into the connector past Cut A, while lightly wiggling the cable to help the conductors slide into their channels. Proper insertion is indicated by viewing ALL of the wire conductors through the front end of the connector body. Use Magnifier if needed (Fig. 5).
- 6) Bend the strain relief tab to align with the cable, careful to keep the braid strands enclosed (Fig. 6). Lightly bend the ends of the strain relief tabs in to prep for crimping.
- 7) Verify full insertion before crimping the connector. Crimp using PIC P/N 111183 crimp tool. Trim any braids past the end of the crimped strain relief tab (Fig 7).
- 8) Bring the ATUM 12/3 x 1.0" over the shoulder of the connector, and shrink onto the connector and cable (Fig. 8), while taking care to shield the RJ45 latching tab from excessive heat. Verify full travel of the latching tab, trim back shrink tube if it impedes the latching tab (Fig. 8).

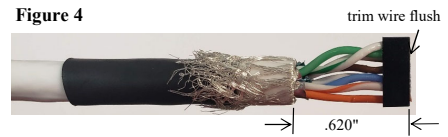
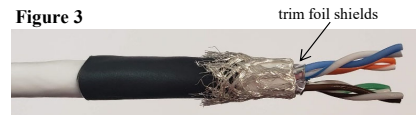
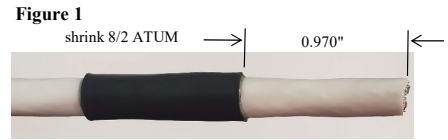
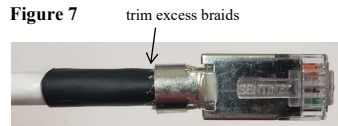
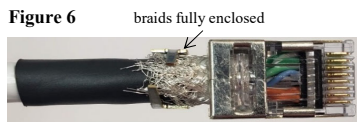
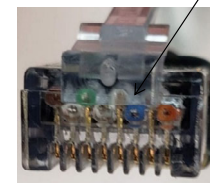


Figure 5 Conductors should be visible and fully inserted



Pin	568A Configuration	568B Configuration
1	White / Green	White / Orange
2	Green	Orange
3	White / Orange	White / Green
4	Blue	Blue
5	White / Blue	White / Blue
6	Orange	Green
7	White / Brown	White / Brown
8	Brown	Brown

RJ45 Wiring Configuration for 568A or 568B

Top View