

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-110788

Approved :

Date : 02/20/14

Rev 0

Distribution : USER

Uncontrolled Document

Termination Instructions for PIC P/N 110788 RJ45 Plug Connector

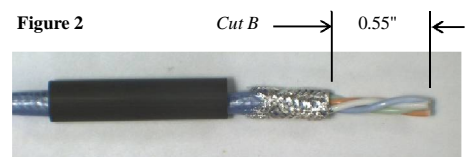
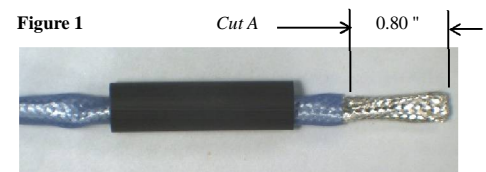
(for PIC Ethernet Cable P/N's E10424, E40424 & E12424)

Required Tooling : PIC P/N 110288 RJ45 Crimp Tool, Insulation Compression Tool P/N 190048

Recommended Hand Tools : X-acto Knife, Sharp Razor, Wire Cutters, Eye Loupe / Magnifying device

- 1) Install ATUM shrink tube (8/2 x 1.375") onto cable (Fig. 1). Make Cut A @ .80" from cable end, through the cable jacket (Fig. 1). Remove jacket, braids, foil, and teflon tape. Do Not nick or cut into wire insulation. Inspect wire insulation to verify insulation integrity.
- 2) Flare the wire braid out. Fold the wire braid back over the jacket as shown. Remove the exposed foil shield (Fig. 2).
- 3) Verify the arrangement of the wires to the desired configuration, in preparation for insertion into the connector. Trim ends to 0.55" as shown, with sharp wire cutters (Fig. 2).
- 4) Using the insulation compression tool (PIC P/N 190048), compress the insulation of all 4 wires to a length of 0.35". The Ø .060" diameter insulation will require thorough compression to fit into the Ø .048 wire entry holes in the connector. When compressing the wires, compress each wire only slightly, remove & rotate tool and compress on different area of wire to slowly compress each wire without shearing off any insulation (Fig. 3). Trim all wires even w/ razor blade, trimming off 0.05" max from ends.
- 5) Using the 0.17" opening on the 190048 Tool, compress the braid onto cable directly in back of the exposed wires for insertion into rear of the RJ45 body. Just prior to insertion into the connector front body, verify arrangement of wires per the desired pin-out. Install wires into the connector body, keeping alignment intact. To complete full insertion, push while gripping folded braids. Proper insertion is indicated by viewing ALL of the wire conductors through the front end of the connector body. Use magnifying device as needed or required.
- 6) Trim excess shield braid. Crimp RJ45 connector using PIC Crimp Tool P/N 110288. Verify all wires are in place using magnifying device as needed.
- 7) Slide up the 1.375" piece of heat shrink to the back end of the connector. Shrink the heat shrink using caution not to heat and melt the latching tab. (Fig 5).

Dimensions In inches (not to scale)



Fold braids back, remove inner tape

Figure 3



Slightly compress, remove, rotate tool to compress on different area.

Figure 4

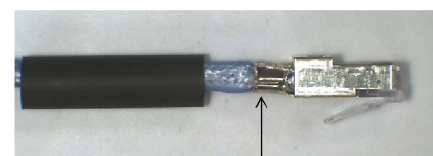


Figure 5



Shrink ATUM 8/2 x 1.375"