

PIC Wire & Cable

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Termination Instructions

T-110303-01

Approved : 

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Uncontrolled if Printed

Termination Instructions for PIC Connector P/N 110303 - Shielded RJ45 Plug

(For PIC Ethernet Cable P/N E20424)

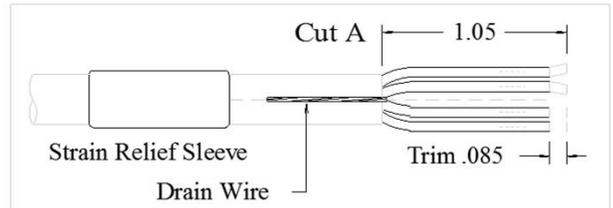
Recommended Hand Tools : X-acto knife, Sharp razor, Wire Cutters

Required Tooling : PIC Crimp Tool P/N 110288

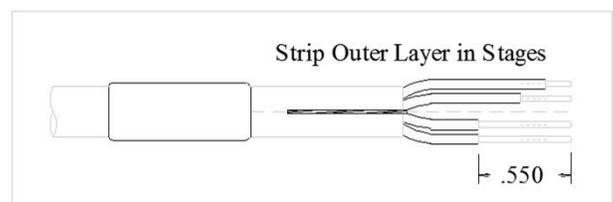
Dimensions in inches - Not to scale

- 1) Install Strain Relief Sleeve onto cable. Make Cut A (1.05" from end) through Jacket. Remove Jacket, Braids, Foil, and clear Polyester film layer. Separate the shielded pairs, and fold Drain Wire back over the jacket.
- 2) Unwrap and remove the foil from the shielded pairs at Cut A. Straighten out the wires. To prepare for stripping off the Outer Layer of the Dual Layer Insulation of each of the wires, the "mis-shapen" wire ends must be trimmed off, by .085" + / - .015" using a sharp razor or sharp wire cutters. The ends must be squared and concentric to strip properly.
- 3) Strip off the outer layer of wire insulation in multiple stages, stripping approximately 0.15" length in the first step. A standard hand-held wire strippers, using the 20 AWG cavity, can be used to strip the outer layer wire insulation off of the wire, while leaving the Inner Layer intact. *For best results, position the wire strippers to strip off squarely, and remove outer layer insulation in lengths of .200" or less in each stage. Strip the outer layer insulation, to .550" length from the end of the wire. The Inner Layer of insulation must not be stripped off, otherwise the termination process must be re-started.*
- 4) Arrange the Wires into the desired configuration (standard 568A is shown below, with the outer layer insulation color matching the color code). With the wires in the desired configuration, install the wires into the Load Bar. If necessary, longer wires can be trimmed nearly as short as the shortest wire, to allow easier entry into the Load Bar.
- 5) Trim off the end wire at 0.95" from Cut A. Position the front of the load bar flush with this trimmed wire and trim the remaining wires even with the first.
- 6) Move the drain wire away from the jacket. Make Cut B (0.35" from Cut A) in the jacket. Do not Nick or cut into the wire braids. Remove Jacket only.
Note : If the installation requires a separate ground for the cable shield, then Cut B will be 1.0" from Cut A, and remove jacket, braids, foil, and polyester film at Cut B. Strip the jacket off behind Cut B, to a length consistent with the Solder Sleeve being used. Fold braid back over jacket, remove foil, but retain the polyester film in place.
- 7) With the load bar positioned at the end of the wires, install the connector body. Seat the wires fully into the connector, until the stranded conductors of each wire are visible through the front end of the connector body.
- 8) Re-position the drain wire to run along the outside of the wire braid (or pair shields, if using separate cable ground), between the braid and the connector Strain Relief tab. Verify full insertion before crimping. Crimp the connector using PIC 110288 Crimp Tool.
- 9) Trim off excess drain wire behind the end of the strain relief tab. Slide the Strain Relief Sleeve up over metal strain relief tab, flush with the connector body .

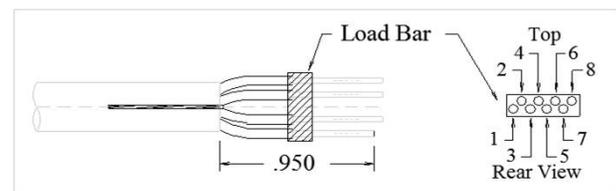
Steps 1 and 2



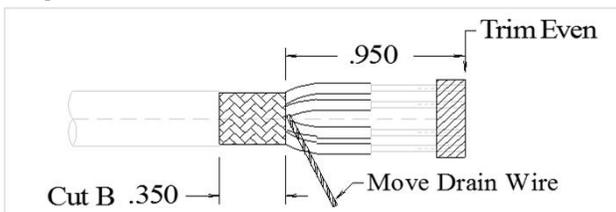
Step 3



Steps 4 and 5



Steps 5 and 6



Steps 7, 8 and 9

