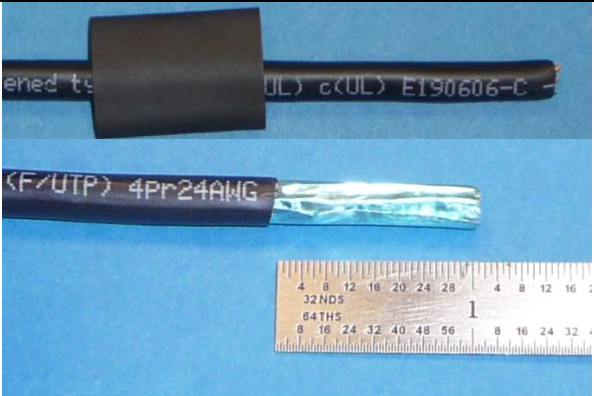

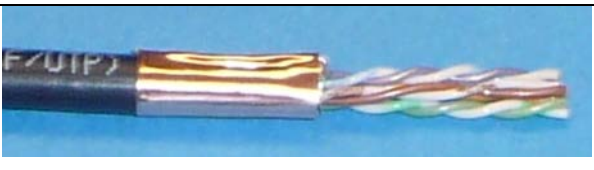




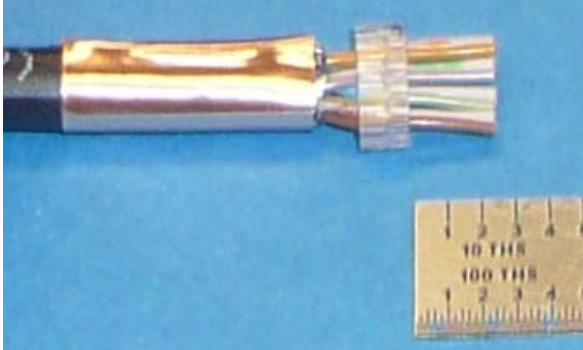
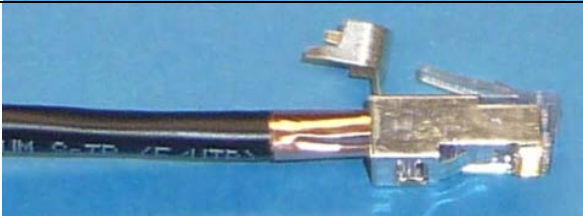






Instruction Sheet: 111S08080016C34 / RJ45-STP-L5E

Step 1	Prepare the cable: Slide the boot or shrink tubing up the cable. Measure at least 1 inch and strip off the outer jacket. More than 1 inch is permissible for the technician's convenience. Use care when stripping off the jacket to avoid cutting or damaging the internal conductors.	 A black boot is being slid onto a black cable. A ruler is placed below the cable to show a measurement of approximately 1 inch. The cable has markings: "(UL) c(UL) E190606-C" and "(F/UTP) 4Pr24AWG".
Step 2	Remove the foil shield and lay the drain wire back over the jacket. Be careful with the heavy aluminum shield, it can cut a finger very easily. Also remove the clear polyester binder from the twisted pairs.	 The outer jacket has been removed, and the drain wire is being laid back over the remaining jacket. The twisted pairs are visible. The cable has markings: "(F/UTP) 4Pr24AWG".
Step 3	Use 3/4" wide copper tape to secure the drain wire. Cut off any extra drain wire protruding past the copper tape. Don't overlap the copper tape excessively; 1.1" (28mm) is adequate length for the tape.	 A piece of copper tape is wrapped around the drain wire and the remaining jacket. The twisted pairs are visible. The cable has markings: "(F/UTP) 4Pr24AWG".
Step 4	Untwist the pairs and straighten out the wires. Ensure all convolutions are smoothed out and the wires are very straight. Lay the wires out in the desired color code (568A or B).	 The twisted pairs have been untwisted and straightened out. The wires are laid out in a specific color code. The cable has markings: "(F/UTP) 4Pr24AWG".
Step 5	Feed the load bar over the conductors. The open side of the load bar goes over the conductors first. Ensure the color code of the conductors after seating the load bar to .078" (2mm) of the jacket. Keep finger pressure on the wider flat sides of the load bar when as the load bar can split and crack.	 A metal load bar is being applied to the conductors. The load bar is being pushed over the wires. The cable has markings: "(F/UTP) 4Pr24AWG".





Step 6	Measure and trim the exposed wires to 0.300" (7.62mm) from the end of the load bar. Cut wires should have a uniform appearance. Place a finger over the free ends of the wires before cutting to prevent pieces of wire from flying free.	
Step 7	Bend the shield contact clamp away from the connector to facilitate the cable feed. Pinch and form the cable jacket to permit sliding into the connector entrance. Use of flat pliers is recommended (Duck billed pliers).	
Step 8	Insert the prepped wires into the connector and seat firmly until exposed copper can be seen on all conductors at the front of the connector. Validate your color code before crimping. If any wires bend or don't seat, remove the cable from the connector and straighten out the conductors, then repeat the insertion. If the conductors are bent too much, cut off and start over, but don't lose the load bar.	
Step 9	Crimp the connector. This RJ45 plug can be crimped using any industry standard crimping tool. We recommend using a heavy duty crimper (Liberty item 100054LW for example) for shielded Category cables. After crimping the connector use fingers or pliers to bend the shield contact clamp back over the copper tape and crimp closed.	
Step 10	Slide the boot or shrink tubing up and into place. Use 3:1 shrink ratio tubing for the best results. The shrink tubing should be even with the lower shoulder edge of the connector. See the image in step 11 for relative positioning of the shrink tubing.	
Step 11	Shrink the tubing carefully, do not allow a lot of heat exposure or your cable can be damaged. Always test your connections! Best practice is testing with a performance tester and not with a simple continuity tester.	





Components:

111S08080016C34: A single RJ45 connector and one load bar.

111-080800LB: Replacement load bar

RJ45-STP-L5E: An install kit consisting of 25 connectors and their load bars, 5 extra load bars, 25 precut pieces of copper tape 1.1" long and 25 pieces of ½" 3:1 shrink tubing cut to 1.5" in a single bag.

100054LW: Heavy duty crimp tool

B2(3X)-1/2BLK-RL: 200' spool of 3:1 UL listed black shrink tubing.

80011181049: 54' spool of 3M 1181 ¾" copper tape with conductive adhesive

Use of the copper tape and shrink tubing is optional. However the ground contact surface and shielding performance is significantly better when this process is used. The 3:1 shrink tubing also provides excellent strain relief for the cable. For applications demanding 360° shielding, this connector installation fits the requirement and fills the need. The connector can accommodate shielded Category 5E cables up to .275" | 7.00mm in diameter using this instruction.

Any suggestions, questions, or comments? Liberty technical help: techquestions@libav.com

