COMMSCOPE[®]

SL Jack Tool Kit 1725150-[] 25APRIL22 Rev U

Instruction Sheet **408-8858**

PROPER USE GUIDELINES

Cumulative Trauma Disorders can result from the prolonged use of manually powered hand tools. Hand tools are intended for occasional use and low volume applications.



1. INTRODUCTION

This instruction sheet covers the proper use and maintenance of Tool Kits 1725150 - [] for SL-style Series 110, SLX and AMP-TWIST* 6S and AMP-TWIST $_{A}$ S SL Jack

Connectors.

See Figure 1. This tool kit is designed to terminate:

Product Description	Cable Type
SL, E, KJ & M Series Mold Jacks	22-24 Solid 24 Stranded
SLX Jacks	22-26 Solid 24-26 Stranded
AMP-TWIST 6S SL Jacks	22-24 Solid 24-26 Stranded
AMP-TWIST 7AS SL Jacks	22-24 Solid

Figure 1

To obtain information on CommScope products, call PRODUCT INFORMATION at the number at the bottom of this page, or visit www.commscope.com.

Figure 1

2 DESCRIPTION

Tool kit part number 1725150-6 for SL Jacks & cable dia. up to 0.285" consists of:

- Tool Assembly & Pouch

- Lacing Fixture 1673956-6

Tool kit part number 1725150-3 for AMP-TWIST 6S and 7_AS SL Jack Connectors consists of:

- Tool Assembly & pouch

Read these instructions carefully

The tool assembly consists of a

21. Description of SL Series Jack Tool

spring--loaded ram driven by a handle

The ram, which also acts as a handle

lock (to keep the handle closed during

transportation and storage), can move

independently of the link for purposes

of cable stripping and to unlock the

before using this tool.

Assembly

through a link.

handle.

A spring provides the force necessary for the cable stripping operation.

A blade to place a score mark on foil covered cable pair.

All the parts are located inside two housing shells.

The housing features a scale for determining strip length and an access hole for cable stripping.

The tool assembly also provides a means to store and retain Lacing Fixture 1673956--X when the fixture is not in use.

Cable Clamp Cutting Cutting Blade Blade WireID Label Wire Positioni Slot Spring Pin Right Left Wire Lacing Wire Hinge Lacing Pin Guide Guide (View of 1673956--x)

Figure 2

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22 Description of Lacing Fixture Assembly



The lacing fixture is only used on SL Series 110 Jack Connectors

Each Lacing Fixture Assembly 1673956-X consists of two wire lacing guides that pivot around a pin. Refer to Figure 2.

Each wire lacing guide has a cut -off blade, to cut off the excess wire during termination.

In addition, Lacing Fixture1673956-X contains a ball detent to assist in keeping the lacing fixture closed while lacing the conductors. The fixture also contains a movable cable clamp, which is used to prevent cable movement during the wire lacing process.

3. TERMINATION PROCEDURE FOR SL SERIES 110 JACK CONNECTORS

3.1. Terminating Unshielded Cable

1. Prepare the tool by pulling the ram toward the lacing fixture, unlocking the handle. Lift the handle "up" and remove the lacing fixture. Pull the ram forward and return the handle to the "locked" position.

2. Place the strain relief on the cable with the circular boss facing away from the end of the cable to be terminated. Refer to Figure 13.

3. Place the cable next to the scale on the side of the tool. Stop the end of the cable at the mark below the desired strip length (indicated in mm). Refer to Figure 3.



A 35mm [1.378 in. strip length is a good starting point.

4. Grasp the cable at the end of the tool. That is considered the reference point for the scale.

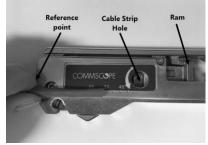


Figure 3

5. Pull the ram completely forward and insert the cable through the strip hole until the reference point meets the outside surface of the tool. See Figure 4.



Figure 4

6. Release the ram. The spring will provide the force for the cable stripping operation.

7. Rotate the tool around the cable. Approximately one and 1/4 turns are normally sufficient to cut through the cable jacket.



Harder cable jackets may require additional turns.

An arrow next to the cable strip hole indicates the direction of rotation for different depth cuts.

Rotating the tool in the direction of the smaller arrow will provide a minimal cut; rotating the tool in the direction of the larger arrow will provide a deeper cut.



It is recommended that the minimum depth be cut first. If a deeper cut is required, rotate the tool in the direction on the larger arrow.

8. Pull the ram forward and remove the cable.

9. Remove the cut cable jacket, rip cord, binder, and cross web filler if they exist, leaving only the twisted pairs of wire. See Figure 5.



Figure 5



If the cable is partially scored, bending the cable at the point of the cut, and pulling it away from the cable will remove the cable jacket.

10. Open the lacing fixture and insert the cable until the cable jacket is aligned with the shelf. See Figure 6.

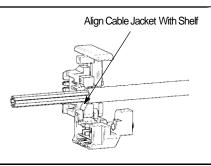


Figure 6

11.Rotate the cable so that the pairs of wires are oriented approximately with the wiring label on the outside of the lacing fixture.



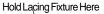
The blue and brown wires can be used as guides. When using color code standards T568A or T568B, these conductors are in the same location.

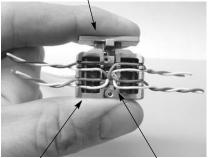
12. Close the lacing fixture around the cable. Lacing fixture 1673956--X contains a ball detent to keep the fixture closed. This fixture should be held by the cable clamp and by the bottom to keep the cable from moving during wire lacing. Refer to Figure 7.

13. Following the wire identification label, use the inside towers between the wire positioning slots to begin to separate the wire pairs. Untwist just enough of the wire to lay straight across the lacing

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fixture to the outside wire position slot. See Figure 7.





Hold Lacing Fixture Here Place Wires In Slots Figure 7

14. Orient the jack connector so that the color coding on the jack connector mates with proper conductor of lacing fixture. Insert a jack connector into the lacing fixture until it is engaged by approximately 4mm [.160 in.]. See Figure 8.



The blue and brown wires can be used as guides. When using color code standards T568A or T568B, these conductors are in the same location.

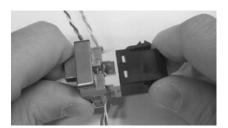


Figure 8

15. Insert the lacing fixture (with the jack connector) into the tool. See Figure 9. Ensure jack connector is aligned properly before compressing tool handle.



Figure 9



If the jack connector is equipped with a dust cover, the cover must be opened prior to insertion into the tool. See Figure 10. If the jack connector is terminated with the cover closed, the connector will be damaged and must be discarded.

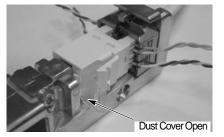


Figure 10

16. When using the lacing fixture and plastic SL Jack Connectors, squeeze the tool handle until the hook on the bottom of the handle meets the top of the ram. See Figure 11. Then release the handle and remove the lacing fixture and connector.



Figure 11

17. While the handle is closed, if necessary, remove the cut wires from the lacing fixture and discard them.

18. Remove the jack connector from the lacing fixture as follows:

a. Hold the lacing fixture firmly with one hand and the jack connector with the other hand.

b. Slightly move (wiggle) the connector back and forth while pulling in opposite directions. See Figure 12.



Be sure **not** to hold the lacing fixture by the cable clamp. Holding the cable clamp will provide additional force on the cable and make it difficult to

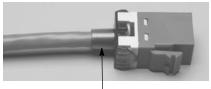
release the jack connector.



Figure 12

19. Open the lacing fixture and remove it from the cable and properly terminated jack connector. Inspect the connector to ensure the wires are bottomed in the housing slots and the wires were cut properly.

20. For *unshielded* jack connectors, position the strain relief over the connector and snap into place. Refer to Figure 13a.



Circular Boss Figure 13a

21. Cat 6A jacks require the use of the isolator cap, assembled as shown in Figure 13b by sliding it on to the jack. Cap can be oriented with cable exit to either side; for use in panels, cap must be oriented as shown.

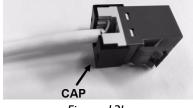


Figure 13b

3.2. Terminating Shielded Cable

1. Strip back the cable jacket approximately 76.2mm [3.00 in.].



It is recommended that the minimum depth be cut first. If a deeper cut is required, rotate the tool in the direction of the larger arrow (*Figure 14*).

If the cable is partially scored, bending the cable at the point of the cut and pulling it away from the cable will remove the cable jacket.



Figure 14

2. Remove ripcord if present. Do not cut the foil. See Figure 15.

3. Fold the metal foil and drain wire back over cable jacket.







Do NOT cut the drain wire. Fold back the foil toward cable jacket as shown in Figure 16.

4. Remove the clear wrapping from the twisted -pair wires. Refer to Figure 17.



Figure 16



Figure 17

5. Cut the center spline filler 12.7 mm [.500 in.] minimum from the end of the cable jacket. See Figure 18.

6. Open the lacing fixture and insert the cable until the top of the center spline filler is aligned with the shelf of the fixture as shown in Figure 19.

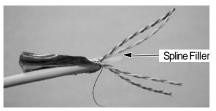


Figure 18



Figure 19

7. Continue as described in the instructions for terminating unshielded cable (Paragraph 3.1, Steps 10 through 18). Refer to termination instructions for the specific jack.

4. TERMINATION PROCEDURES FOR UTP JACK CONNECTORS, 6S & 6_AS SL JACK CONNECTORS, and 7_ASSL JACK CONNECTORS

Refer to the following instructions for

termination instructions:

Instructions	Product Description
408-8417	Cat 6 SL, E, KJ & M Series
	Mod Jacks
860649060	Cat 6A UTP SL, KJ, M & FMK
	Series Mod jacks
860638777	SLX Jacks
411-93007	AMP-TWIST 6S SL Jacks,
	straight exit
411-93014	AMP-TWIST 6S SL Jacks, side
	exit
411-93016	AMP-TWIST 6AS SL Jacks
411-93013	AMP-TWIST 7AS SL Jacks



WHEN TERMINATING THE ABOVE METAL CONNECTORS, do not squeeze the handle of the tool beyond the point where the rear housing latches into the front housing of the jack. Damage to the tool may result.

5. MAINTENANCE

Periodically clean the tool. The tool is lubricated at the factory and should not require additional lubrication except during blade replacement.