

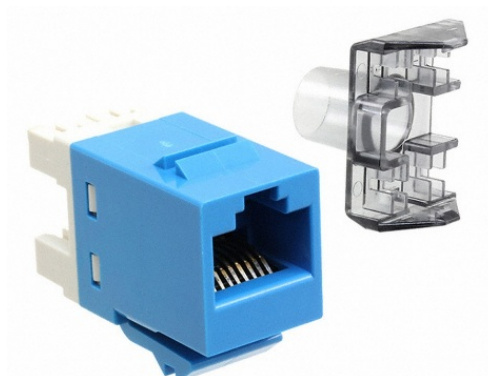
# COMMSCOPE SL Series Modular Jacks Instructions

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## COMMSCOPE SL Series Modular Jacks



### Product Information

**Product Name:** SL, Secure SL, E, KJ and M Series Modular Jacks

**Manufacturer:** CommScope

**Website:** [www.commscope.com](http://www.commscope.com)

## **Cable Compatibility:**

- SL Series: Categories 3, 5e, 6
- Secure SL Series: Category 6
- E, KJ and M Series: Categories 5e, 6

## **Specifications**

- Accepts 4-pair, twisted-pair cable
- Solid conductor sizes: 24 through 22 AWG
- Stranded conductor sizes: 26 through 24 AWG
- Maximum conductor insulation diameter: 1.45 mm [.057 in.]
- Universal wiring label for proper wire color coding

## **Product Usage Instructions**

### **Termination**

#### **Using SL Series Modular Jack Tool Kit (Preferred Choice)**

- Slide strain relief over cable jacket.
- Strip the cable jacket to the necessary length.
- Use the SL series modular jack tool kit or impact tool for termination.
- Lace the wires according to the wiring label, maintaining twisted ends.
- Firmly press the modular jack into the lacing fixture, aligning the color-coded wires.
- Insert the lacing fixture (with modular jack) into the tool.
- Ensure the modular jack is aligned properly before compressing the tool handle.
- Compress the tool handle and remove trimmed wires while the handle is closed.
- Remove the modular jack by moving it back and forth.

#### **Using Impact Tool (Secondary Choice)**

1. Align and lace a color-coded wire pair with the appropriate slots of the modular jack.
2. Set the impact tool setting for low-impact.
3. Position the tool so the cutoff blade is on the outside of the modular jack and oriented vertically.
4. Using the impact tool, punch the wires down into the slot and cut off excess wire.
5. Remove any loose wire pieces.

## **FAQ**

### **Q: What sizes of cables are compatible with the modular jacks?**

A: The modular jacks accept 4-pair, twisted-pair cables with solid conductor sizes 24 through 22 AWG or stranded

conductor sizes 26 through 24 AWG.

**Q: What is the maximum conductor insulation diameter allowed?**

A: The maximum conductor insulation diameter allowed is 1.45 mm [.057 in.].

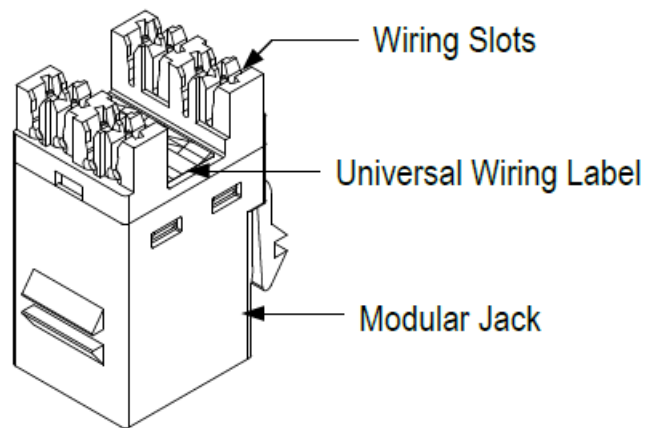
**Q: What is the preferred termination tool for the SL series modular jacks?**

A: The preferred termination tool is the SL series modular jack tool kit.

**Q: Can I use an impact tool for termination?**

A: Yes, an impact tool can be used as a secondary choice for termination.

#### **SL, Secure SL, E, KJ and M Series Modular Jacks**



MODULAR JACK	CABLE STANDARD		
SL Series	Categories 3, 5e, 6		
Secure SL Series	Categories 6		
E, KJ and M Series	Categories 5e, 6		
MODULAR JACK	CABLE STANDARD		
SL Series	Categories 3, 5e, 6		
Secure SL Series	Categories 6		
E, KJ and M Series	Categories 5e, 6		

## INTRODUCTION

This instruction sheet provides the termination procedure for the modular jacks given in Figure 1. To obtain information on products, contact your local CommScope® account representative, PartnerPRO™ Network Partner or visit our website at [www.commscope.com](http://www.commscope.com).

**NOTE** Dimensions in this instruction sheet are in metric units [with U.S. customary units in brackets]. Figures are not drawn to scale. Reasons for reissue of this instruction sheet are provided in Section 6, REVISION SUMMARY

## DESCRIPTION

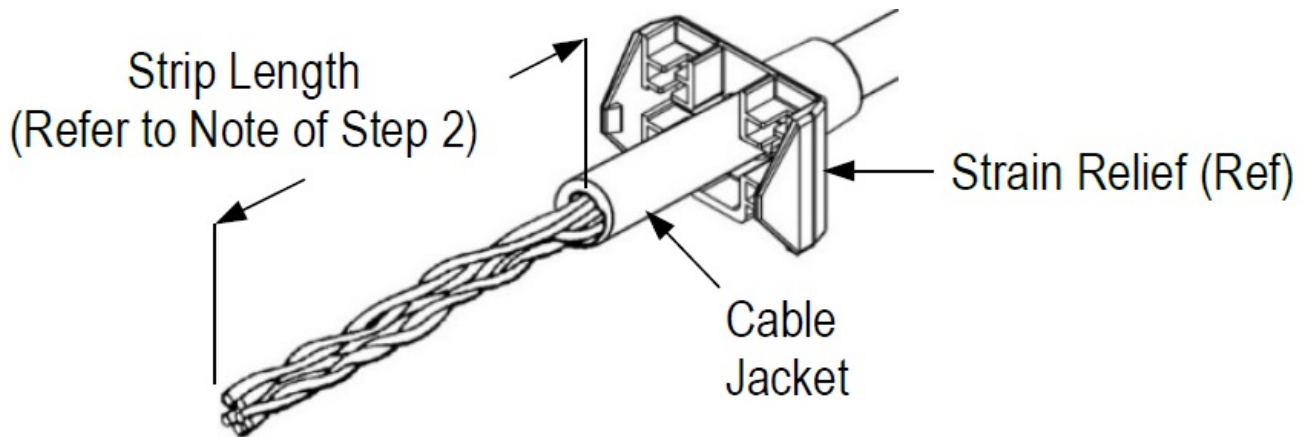
Each modular jack accepts 4-pair, twisted-pair cable with solid conductor sizes 24 through 22 AWG or stranded conductor sizes 26 through 24 AWG with a maximum conductor insulation diameter of 1.45 mm [.057 in.]. The modular jack features a universal wiring label used to aid in proper wire color coding and a wiring block that terminates the wire. See Figure 1. Space Limiting strain reliefs are available separately.

## TERMINATION

1. Slide strain relief over cable jacket. Refer to Figure 2.
2. Strip only as much of the cable jacket as necessary to perform the termination.

**NOTE** Generally, a strip length of 35 mm [1.378 in.] when using SL series modular jack tool kit 1725150-1 for

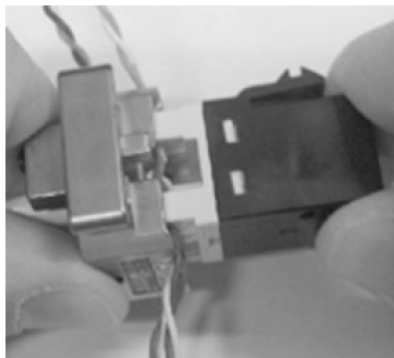
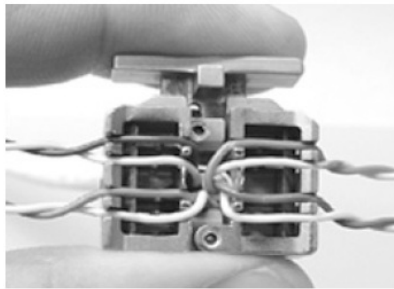
termination will suffice and 50.8 mm [2.0 in.] when using impact tool 1583608-1. The preferred choice of termination tool is SL series modular jack tool kit and the secondary choice is the impact tool



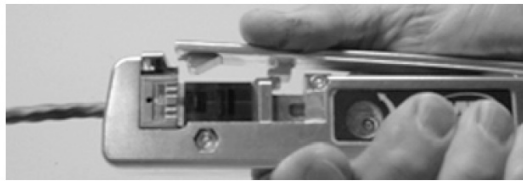
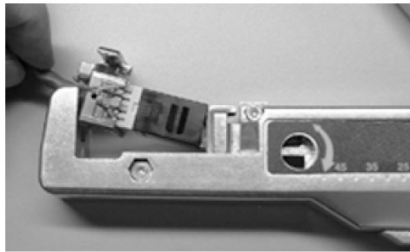
#### **Using SL Series Modular Jack Tool Kit (Preferred Choice)**

Figure 3 shows a general termination procedure when using the SL series modular jack tool kit. For detailed information, refer to instruction sheet 408-8858

1. Close lacing fixture around cable, then lace wires according to wiring label maintaining twisted ends as shown.
2. Firmly press modular jack into lacing fixture, aligning the color-coded wires.



3. Insert lacing fixture (with modular jack) into tool as shown. Ensure modular jack is aligned properly before compressing tool handle.
4. Compress tool handle and remove trimmed wires while handle is closed.
5. Remove modular jack by moving it back and forth

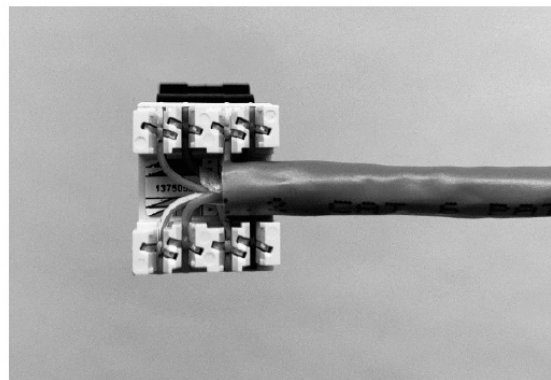
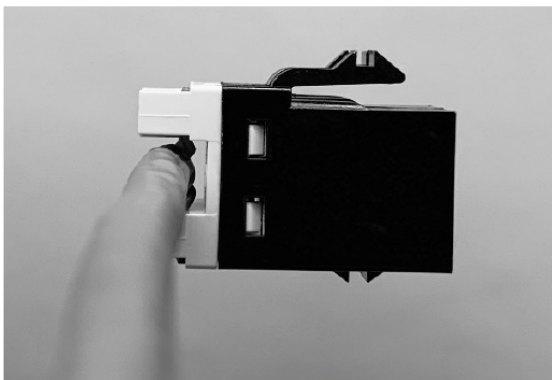


### Using Impact Tool (Secondary Choice)

1. Align and lace a color-coded wire pair with the appropriate slots of the modular jack as indicated by the color coding on the universal wiring label. Use the following minimum slack while maintaining twist: Category 3e — 75 mm [3 in.] Category 5e — 12.7 mm [.50 in.] Category 6 — 6 mm [.24 in.]
2. Set the impact tool setting for low-impact. Position the tool so the cutoff blade is on the outside of the modular jack and oriented vertically.
3. Using the impact tool, punch the wires down into the slot, and cut off excess wire. Remove any loose wire pieces

### INSTALLING STRAIN RELIEF

When installed in enclosures where space is limited the modular jack is capable of performing with cable bend up to 90 degrees as seen in Figure 4. For these cases, the side entry strain relief 1375157-1 as seen in Figure 5 should be used

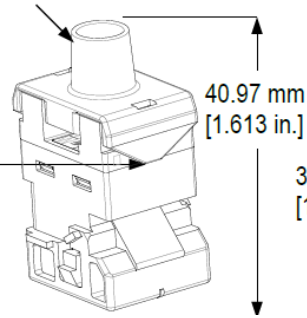


After terminating. Slide the strain relief onto the modular jack until the latches of the strain relief engage of the modular jack as shown in Figure 5.

**Straight Entry Strain Relief**  
1375200-1 (Category 6), 1375200-2 (Category 5e)

**Note:** For Clarity, Cable and Wires Not Shown

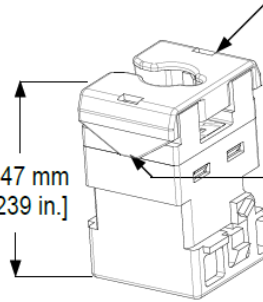
Strain Relief Latch  
(2 Places) Engaged  
with Modular Jack Tabs



**Universal Space-Limiting or Side-Entry Strain Relief 1375157-1**

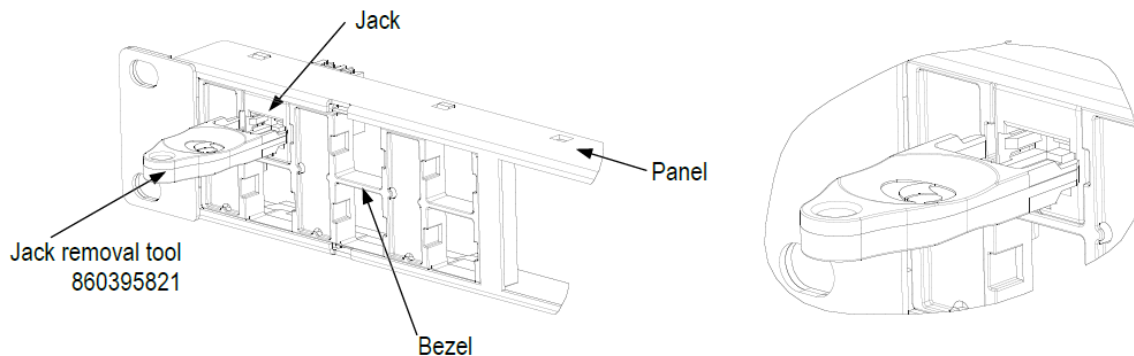
31.47 mm  
[1.239 in.]

Strain Relief Latch  
(2 Places) Engaged  
with Modular Jack Tabs



## M-SERIES JACK REMOVAL FROM PANEL OR FACEPLATE

To remove jack from panel, insert jack removal tool to depress jack latches from bezel, as shown in Figure



## REPLACEMENT


Do not use damaged or defective product. These modular jacks are not repairable.

## REVISION SUMMARY

Revisions to this instruction sheet include:

- Added M-Series Modular Jack
- Added section 5, "M-SERIES JACK REMOVAL FROM PANEL OR FACEPLATE"
- Removed strain relief reference to optional usage

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	<p><b>COMMSCOPE SL Series Modular Jacks</b> [pdf] Instructions</p> <p>95216, 95371, 95204, SL Series, SL Series Modular Jacks, Modular Jacks, Jacks</p>
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References

- [CommScope | now meets next](#)
- [Support Center | CommScope](#)
- [Product Patent](#)
- [User Manual](#)