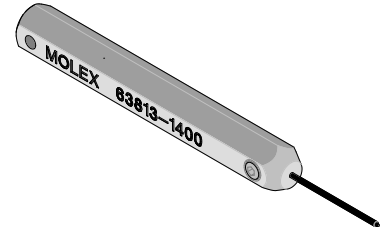


**Order Number**  
**63813-1400**

**molex®**

## Application Tooling Specification



### FEATURES

- This tool is designed to extract various kinds of crimped terminals from their housings.

### SCOPE

**Products:** See chart below.

Terminal Series No.	Description	Housing Series No.	Terminal Order Number			
5263	2.50mm Pitch SPOX Wire-to-Board Crimp Terminals, 22-28 AWG	5264	08-70-1039	08-70-1040	08-70-1047	08-70-1045
			08-70-1046	39-00-0042	39-00-0043	39-00-0151
			39-00-0152	39-00-0159	39-00-0160	39-00-1167
33467	2.54mm Pitch MX64 Female Terminals 18-22 AWG	31403, 34566 and 34576	33467-0001	33467-0002	33467-0003	33467-0004
			33467-0005	33467-0006		
33468	2.54mm Pitch MX64 Female Terminals 18-22 AWG	31403, 34566 and 34576	33468-0001	33468-0002	33468-0003	33468-0004
			33468-0005	33468-0006	33468-0022	33468-0023
			33468-0024			
36876	Ditto Male/Female Crimp Terminal 20-26 AWG	36877	36876-0001	36876-0002		
45627	2.50mm Pitch SPOX Male Terminals, 22-24 AWG	45626	45627-0001	45627-0002	45627-1001	
150152	MX150CE Male Terminal, 0.35-1.5mm	150149	150152-0021	150152-0022	150152-0023	150152-0041
			150152-0042	150152-0043	150152-2001	150152-2002
			150152-2003			
150153	MX150CE Female Terminals, 0.35-1.5mm	150148	150153-0021	150153-0022	150153-0023	150153-0041
			150153-0042	150153-0043	150153-2001	150153-2002
			150153-2003			
50394	2.00mm Pitch Milli-Grid Wire to Board Terminal, 24-30 AWG	51110	50394-8051	50394-8052	50394-8053	50394-8054
			50394-8055	50394-8100	50394-8200	50394-8300
			50394-8400			
150200	Ditto Male/Female Crimp Terminal 20-26 AWG	150170 150201	150200-0001	150200-0002	150200-0011	150200-0012

## OPERATION

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### **For 33467 and 33468 Terminal Series:**

#### **Wire Dress Cover Removal**

1. With the connector removed from the module and the interface facing down, gently unlatch the wire dress cover latch features.



2. With the wire dress cover latch features unlatched; insert finger into wire dress cover and pull up and away from the wire bundle.

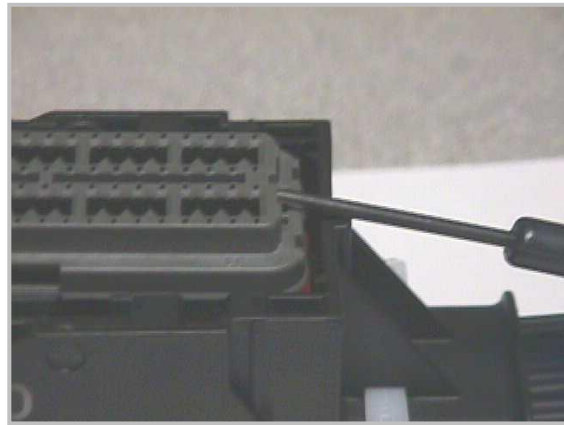
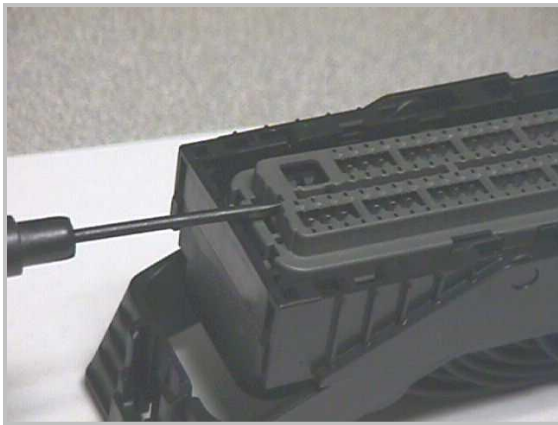


3. At this time, the tie wrap should be removed from the wire bundle for easier access to the wire to be serviced.

#### **TPA Servicing**

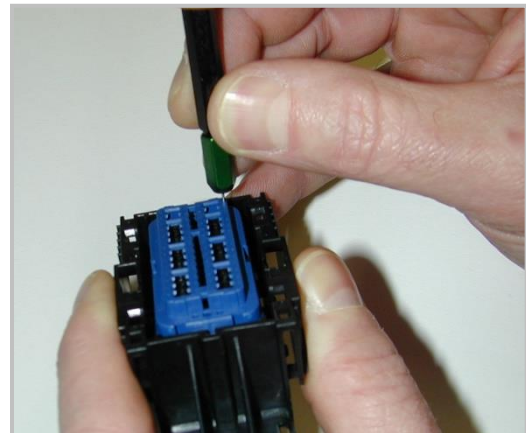
1. Insert a small (2.0mm maximum) flat blade screwdriver into the TPA service hole at either end of the connector and gently pry up. The TPA will stop when it reaches its pre-lock position for terminal servicing. \*Approximate TPA travel will be 3.5mm.
2. Repeat step 1. On the other end of the TPA until the TPA is sitting in its pre-lock position at both ends of the connector.



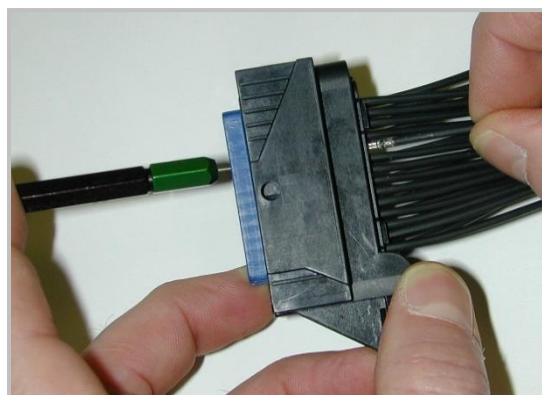


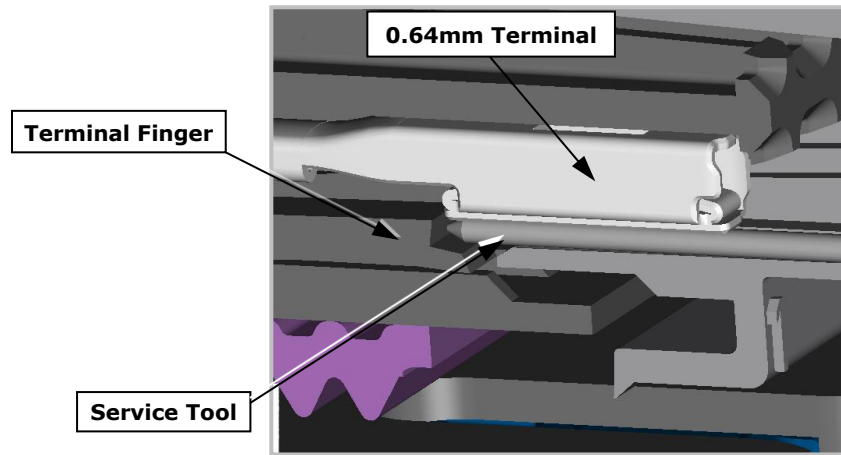
### Terminal Removal

1. Using the Molex 0.64mm service tool (63813-1400), gently insert the tip into the terminal service hole adjacent to the terminal to be serviced. Be careful not to push the service tool into the terminal opening.



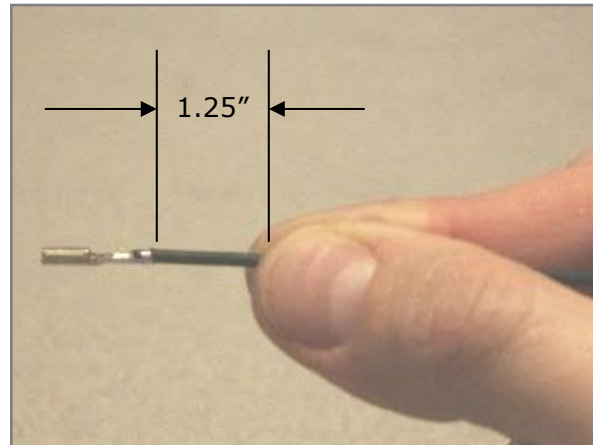
2. Once past the terminal opening, push the service tool against the terminal and push until it wedges between the terminal and the lock finger. Once the terminal lock finger is disengaged, gently pull on the wire to release the terminal. If the terminal resists, the service tool may not be fully engaged. Give the service tool a further push to ensure that it has disengaged the terminal lock finger.





### Terminal Installation

1. With the TPA still in pre-lock position and the wire dress cover removed, orient the terminal to the grommet cap.
2. Grip the wire no less than 1.25 inches from the terminal insulation crimp, and insert it through grommet cap and into the connector. If resistance is encountered, retract the terminal and adjust the angle of attack. Continue inserting the terminal until it stops and locks up on the lock finger with an audible click.



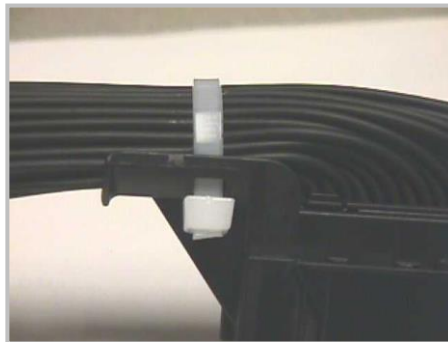
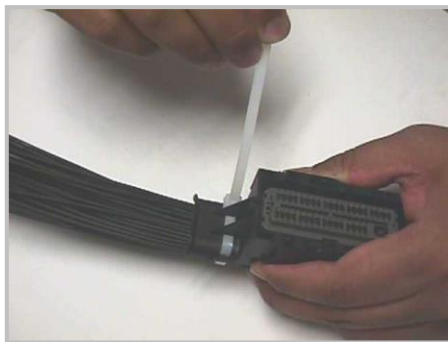
### TPA Seating (TPA Pre-Lock to Final Lock)



1. With the terminal fully installed, the TPA can be seated into its final-lock position by applying an even force to both ends until it comes to a stop. If the TPA resists, it may be detecting a partially installed terminal.
2. Pull the TPA back into its pre-lock position, check to see that your terminal is fully installed and push it further into the cavity if required. Now the TPA can be seated.



## Tie Wrap Installation



## Wire Dress Cover Installation



### For 36876 and 150200 Terminal Series:

**Note:** Extracted terminal is not reusable.

1. Push the terminal forward in the arrow direction before using the extraction tool. See Figure 1.
2. Insert the extraction tool into the slot on the bottom row of the connector housing as shown until it bottoms.

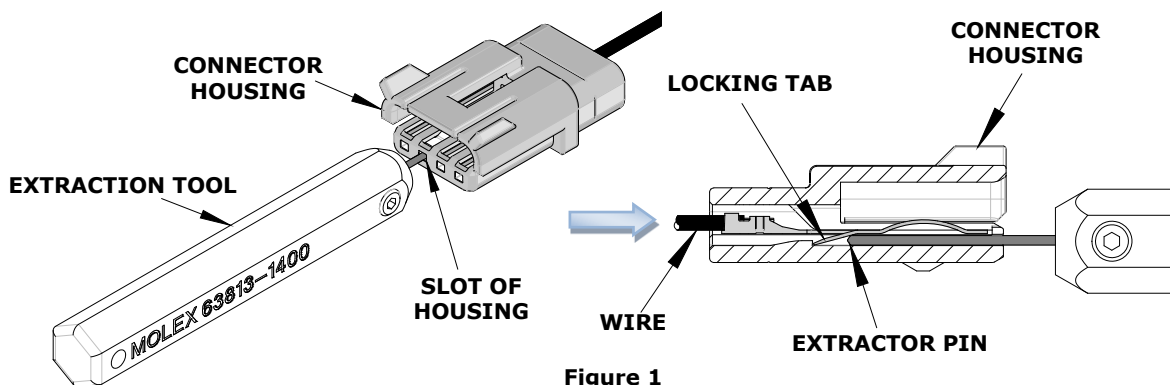


Figure 1

3. The extractor pin will depress the terminal locking tabs then pull the terminated wire out of the housing. Wiggling the wire while pulling it out will help.

**CAUTION:** This extraction tool should be used to extract the terminal only. Using it for unintended purposes may cause injury or damage to parts. Be careful not to deform the end of the terminal.

**For 45627-0001, 45627-0002 and 5263 Terminal Series:**

**Note:** Extracted terminal is not reusable.

1. Push the terminal forward in the direction of the arrow before using the extraction tool as shown in Figure 2.
2. Insert the extraction tool into the slot on the bottom or top row of the connector housing as shown until it bottoms.
3. The extractor pin will depress the terminal locking tabs then pull the terminated wire out of the housing as shown. Wiggling the wire while pulling it out will help.

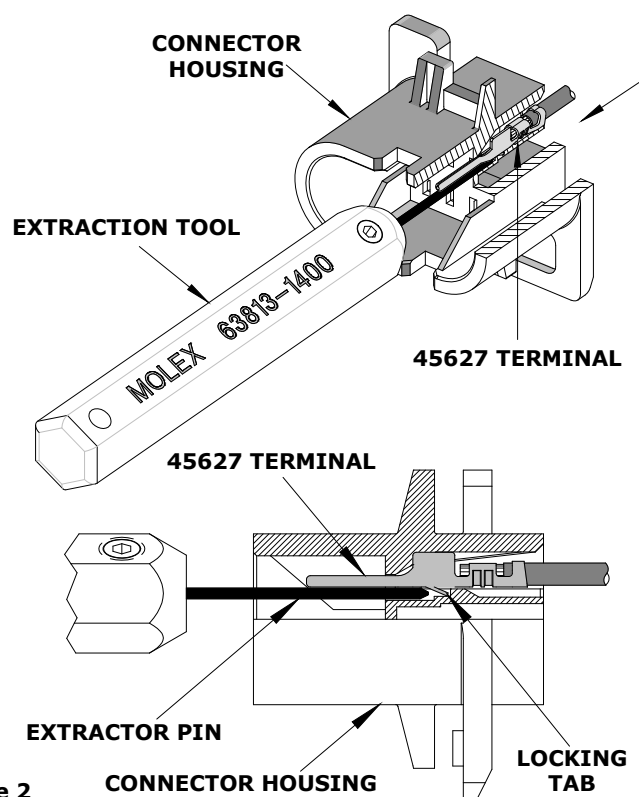
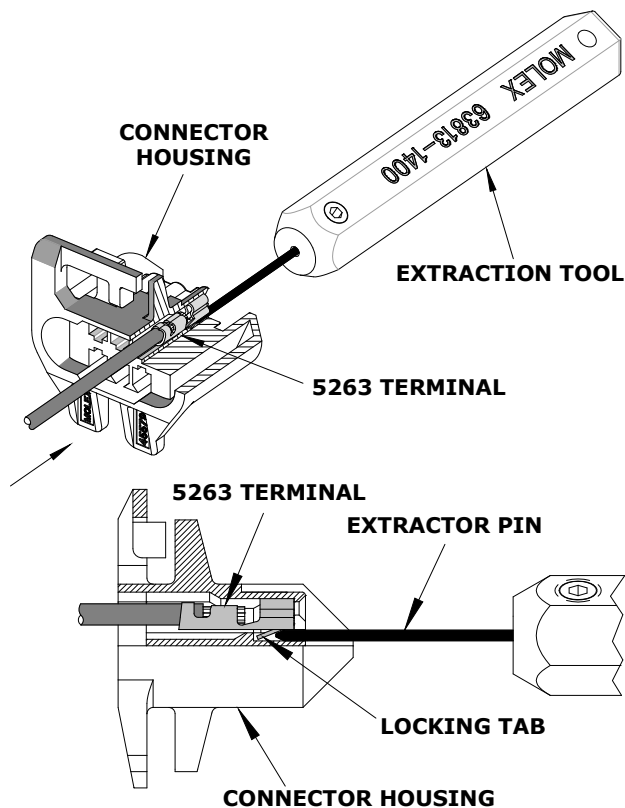


Figure 2

**For 150152 and 150153 Terminal Series:**

**TPA:** Before terminals can be extracted, the TPA must be pulled back to its pre-lock position. Use the applicable extraction tool.

See Specification Sheet ATS-638130020.

**Note:** Extracted terminal is not reusable.

1. Push the terminal forward in the arrow direction before using the extraction tool. See Figure 3.
2. Insert the extraction tool into the hole of the TPA on the bottom row of the connector housing as shown until it stops.
3. The extractor pin will depress and disengage the locking tab on the connector housing.

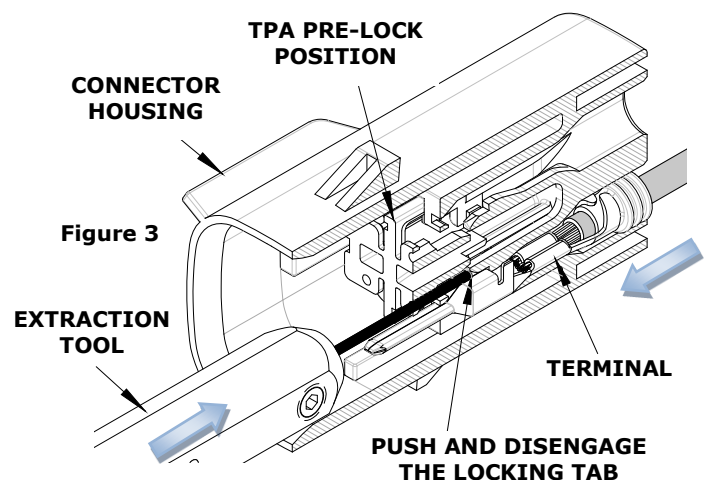


Figure 3

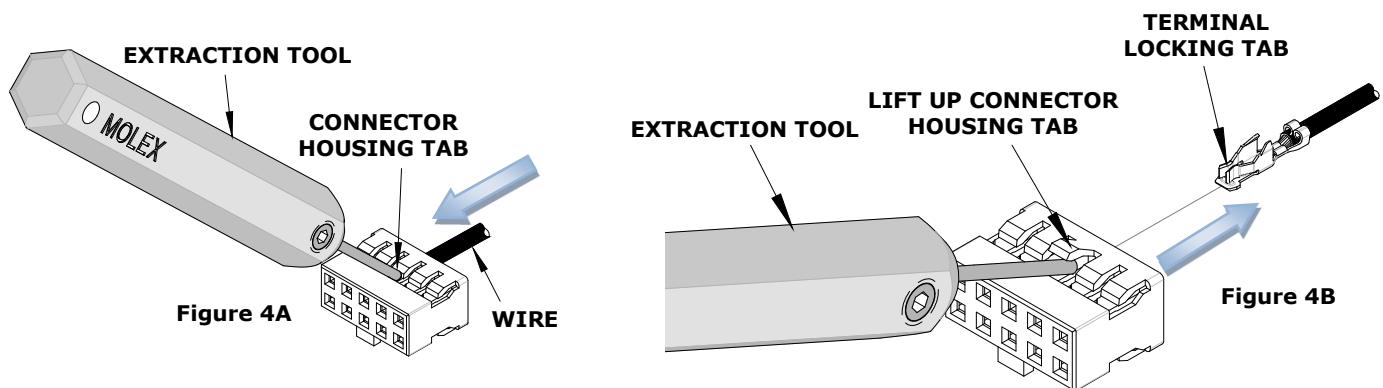
4. Pull the terminated wire out of the housing. Wiggling the wire while pulling it out will help.

**For 50394 Terminal Series:**

When extracting a damaged crimped wire from the Milli-Grid connector, follow the steps below:

**Note:** The housing has locking tabs on both sides, so determine on which side the terminal locking tab is located.

1. Push the terminal forward into the housing before using the extraction tool.
2. Insert the round tip of the extraction tool under the appropriate housing tab. See Figure 4A.
3. Gently lift up on the housing tab, and push the terminal back through the connector slot while pulling the terminated wire out in the direction of the arrow. See Figure 4B.



**CAUTION:** Molex specifications are valid only when used with Molex terminals, applicators and tooling.

Molex does not offer repair parts for extraction tools because of the inexpensive nature of these tools.

**Application Tooling Support**

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**E-Mail:** [applicationtooling@molex.com](mailto:applicationtooling@molex.com)  
**Website:** [www.molex.com/applicationtooling](http://www.molex.com/applicationtooling)

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