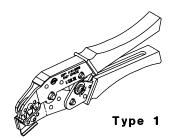


# HAND CRIMP TOOL SPECIFICATION SHEET Order No. 63811-0300



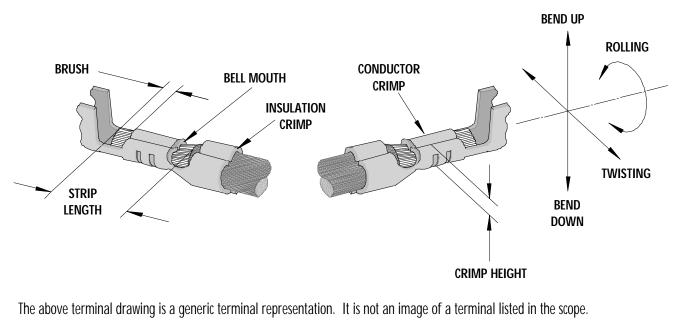
### FEATURES

- Ratchet with safety release that ensures consistent performance
- Small handle spread which make this style tool ideally suited for end users
- A precision user-friendly terminal locator wire stop holds terminals in the proper crimping position

### SCOPE

Terminal Series	Wire Size		Insulatio	n Diameter	Strip Length		
No.	AWG	mm²	mm	In.	mm	In.	
50079-8100	26-28	0.12-0.08	0.67-1.00	.027039	1.40-1.91	.055075	
50080-8100	26-28	0.12-0.08	0.67-1.00	.027039	1.40-1.91	.055075	
50125-8100	26-28	0.12-0.08	0.67-1.00	.027039	1.40-1.91	.055075	

### **DEFINITION OF TERMS**



Release Date: 12-10-03 Revision Date: 05-19-04

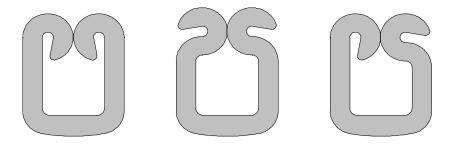
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#### **INSULATION CRIMP FORM**

This crimp terminal is designed for miniaturization; therefore, each dimension of insulation crimp portion appears small as compared to the terminal material thickness. In order to avoid insulation piercing the crimp forms by the insulation barrel, coining is provided inside of the insulation barrel. For this reason, various crimp forms will occur at the tip of the insulation crimp barrel shown in the figure below.

These crimp forms maybe changed completely by a small change in the wire, insulation punch, or terminal.

These crimp forms are satisfactory for original function of the insulation crimp portion and it is confirmed that all of these forms below are acceptable insulation crimps.



#### CONDITIONS

After crimping, the	conductor profiles should measure	re the following (see notes on page 5).	
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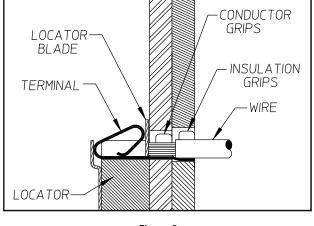
Terminal Series No.	Wire Size		Cond. Crimp Height (REF)		Cond. Crimp Width		Pull Force Min.		Profile	
Series NO.	AWG	mm <sup>2</sup>	mm	In.	mm	ln.	Ν	Lb.	Α	В
50079-8100	26	0.12	0.60-0.65	.02360256	0.83	.033	19.6	4.40		Х
50079-8100	28	0.08	0.56-0.61	.022024	0.83	.033	9.8	2.20		Х
50080-8100	26	0.12	0.58-0.64	.023025	0.83	.033	19.6	4.40	Х	
50080-8100	28	0.08	0.55-0.60	.02160236	0.83	.033	9.8	2.20	Х	
50125-8100	26	0.12	0.58-0.64	.023025	0.83	.033	19.6	4.40	Х	
50125-8100	28	0.08	0.55-0.60	.02160236	0.83	.033	9.8	2.20	Х	

63811-0300 Hand Crimp Tool

**Crimping Terminals** 

blade.

**OPERATION** 



Open the tool by squeezing the handles together, at the end of the closing stroke, the ratchet mechanism will release the handles, and the hand tool will spring open.

1. Lift the locator blade and place the terminal into the correct die profile (A or B),

release the locator blade. Not all tools are equipped with a locator or locator

Figure 2

## Maintenance

It is recommended that each operator of the tool be made aware of, and responsible for, the following maintenance steps:

- 1. Remove dust, moisture, and other contaminants with a clean brush, or soft, lint free cloth.
- 2. Do not use any abrasive materials that could damage the tool.
- 3. Make certain all pins; pivot points and bearing surfaces are protected with a thin coat of high quality machine oil. Do not oil excessively.
- 4. When tool is not in use, keep the handles closed to prevent objects from becoming lodged in the crimping dies, and store the tool in a clean, dry area.

## **Miscrimps or Jams**

Should this tool ever become stuck or jammed in a partially closed position, **Do Not** force the handles open or closed. The tool will open easily by lifting the ratchet release lever (See Figure 4).



- 2. Partially close the tool until the terminal is held in place, (See Figure 2).
- 3. Place a wire into the terminal and up against the locator blade, (See Figure 3). On tools without locators, line the wire up with the conductor and insulation grips visually.
- 4. Close the tool until the ratchet releases, (See Figure 4).
- 5. Lift the locator blade or wire stop up.
- 6. Carefully remove the crimped terminal.

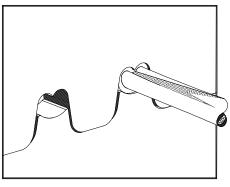


Figure 3

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### How to Adjust Tool Crimp Force (See Figure 4)

It may be necessary over the life of the tool to adjust tool-crimping force. Listed below are the steps required to adjust the crimping force of the hand tool to obtain proper crimp conditions:

- 1. Remove the screw and washer. Located over the adjustment ring.
- 2. Lift the adjusting ring slightly, off the locating pin.
- 3. Turn the adjusting ring in the desired direction (L= less force, T= more force) to increase or decrease crimp pressure.
- 4. Press the adjusting wheel flat against the tool and engage the locking pin.
- 5. Replace the washer and screw.
- 6. Check the crimp specifications after tool crimp force is adjusted.

#### Warranty

This tool is for electrical terminal crimping purposes only. This tool is made of the best quality materials. All vital components are long life tested. All tools are warranted free of manufacturing defects for a period of **30 days**. Should such a defect occur, we would exchange the tool free of charge. This will not be applicable to altered, misused, or damaged tools. This tool is designed for hand use only. Any clamping, fixturing, or use of handle extensions voids this warranty.

Hand held crimping tools are intended for low volume, prototyping, or repair requirements only.

**CAUTION:** Repetitive use of this tool should be avoided.

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

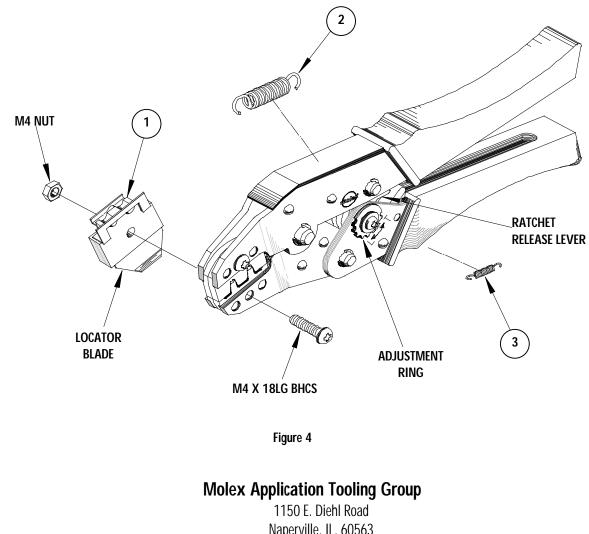
#### Notes:

- 1. This tool should only be used for the terminals and wire gauges specified on this sheet.
- 2. This tool is not adjustable for crimp height, however crimp force is adjustable (See instructions on page 6). Variations in tools, terminals, wire stranding and insulation types may affect crimp height.
- 3. This tool is intended for standard conductor sizes. It may not give a good insulation crimp support for all insulation sizes.
- 4. Molex does not repair hand tools (see warranty above). The replacement parts listed are the only parts available for repair. If the handles or crimp tooling is damaged or worn, a new tool must be purchased.
- 5. Pull force should be used as the final criteria for an acceptable crimp. Pull force is measured with no influence from the insulation crimp. The insulation should be stripped long (1/2 in.) so the insulation grips on the terminal do not grip the wire insulation or the conductor. Refer to Molex Quality Crimping Handbook 63800-0029 for additional information on crimping and crimp testing.
- 6. Molex does not certify crimp hand tools.
- 7. Hand held crimping tools are intended for low volume, prototyping, or repair requirements only.

## PARTS LIST

Item Number	Order Number	Description	Quantity
1	63811-0201	Locator Assembly**	1
2	11-11-0324	Spring (Main)	1
3	11-11-0320	Spring (Ratchet)	1

\*\* Not all tools are equipped with a locator or locator blade. Due to the miniature size of this terminal, the locator is built into the tooling and does not have a spring-loaded blade as shown in the generic picture below.



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Visit our Web site at http://www.molex.com

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