

- % A full cycle ratcheting hand tool ensures complete crimps
- % Ergonomically designed soft handles
- % Precisely designed crimping profiles with simple contact positioning
- % Easy handling due to outstanding force ratio
- % A-620 Class 2 compliant as indicated and RoHS compliant
- Modular Crimp Head is removable and can be use in the Air Powered Tool Order No.63816-0100, accompanied by Air Powered Crimp Adapter (Order No. 63816-0700)
- % Can also be used in the Battery Powered Tool Order No.63816-0200 (110 V) or 63816-0250 (220 V), accompanied by Battery Powered Crimp Adapter (Order No. 63816-0600)

Products: Fakra II Terminals, 26 AWG coaxial cable.

Terminal Series No.	Terminal Order No.		Wire Size	Strip Ler	Strip Length Ref.	
Terminal Series No.			AWG	mm	In.	
89538	89538-0251		26	2.84	.112	
89601	89601-8961		26	2.84	.112	
<ul> <li>The following wire types have been approved for use in this tool:</li> </ul>						
Leoni 462 (7 strand) .16 diam	Wonderful Rg316 (7 strand) .16 diameter 26AWG					
Tatung RG174 (7 strand) .16 dia	Condume	k RG74 (solid)	.42 diamete	r 26AWG		

# **DEFINITION OF TERMS**



The above terminal drawing is a generic terminal representation. It is not an image of a terminal listed in the scope.

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# **CRIMP SPECIFICATIONS**

Terminal Series No.	. Bell mouth		Cut-off Tab (Contac		+Conductor Brush		
	mm	In.	mm	ln.	mm	In.	
89538 89601	0.10-0.30	.004012	0.30	.012	0.00-0.80	0.00031	

Terminal Series No.	Bend up E	Bend down	Twist	Roll	Seam
renninai Senes No.	Degree	e (Max)	Degree	e (Max)	Seam shall not be open and
89538 89601	3	3	3	3	no wire allowed out of the crimping area

After crimping, the conductor profile should measure the following.

Terminal Wire Size		Conductor Crimp				Pull Force		Profile	
Terminal Series No	wire Size	He	ight	Wi	dth Minimum		Frome		
Series NO	AWG	mm	In.	Mm	ln.	Ν	Lb.	SOCKET 26	26 PIN
89538	26	0.8-0.86	.031034	1.06-1.12	.042044	22.2	5.0	Х	
89601	26	0.8-0.86	.031034	1.06-1.12	.042044	22.2	5.0		Х

## **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. Select the desired terminal listed in the preceding chart.
- 2. Swing the terminal locator away from the crimp tool.
- 3. Press down on the wire stop on the locator. Insert the terminal into the nest opening as shown in Figure 1.



- 4. Return the locator to its original position.
- 5. While holding the locator against the hand tool insert the proper wire size into the terminal. See Figure 2.

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- Push the wire until it stops. See Figure 3.
   Note: Do not push the wire too far. This will result in the locator being rotated out of position and the crimp will be damaged.
- 7. Close the tool until the ratchet releases, the tool handles will then spring open.
- 8. Before removing the crimped wire, pivot the terminal locator out. See Figure 4.
- 9. While holding the locator out lift up on the wire stop at the same time, carefully remove the crimped terminal.

**Note:** The tamper proof ratchet action will not release the tool until it has been fully closed.

# PIQURE 3 ANVIL

### 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. The tool was engineered for durability but like any other equipment it needs cleaning and lubrication for a maximum service life of trouble free crimping. Light oil (such as 30 weight automotive oil) used at the oil points, every 5,000 crimps or 3 months, will significantly enhance the tool life.
- 4. Wipe excess oil from hand tool, particularly from crimping area. Oil transferred from the crimping area onto certain terminations may affect the electrical characteristics of an application.
- 5. 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 8.

### 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 to be free of manufacturing defects for a period of 30 days. Should such a defect occur, we will repair or exchange the tool free of charge. This repair or exchange 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.

CAUTION: Repetitive use of this tool should be avoided.

### **CAUTIONS:**

- 1. Manually powered hand tools are intended for low volume or field repair. This tool is NOT intended for production use. Repetitive use of this tool should be avoided.
- 2. Insulated rubber handles are not protection against electrical shock.
- 3. Wear eye protection at all times.
- 4. Use only the Molex terminals specified for crimping with this tool.

### 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 above). 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.

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

### Applications for the Modular Crimp Head

**WARNING**: *NEVER* operate, service, install, or adjust this Modular Crimp Head without proper instruction and without first reading and understanding the instructions in the proper Manual or Specification Sheet. See Chart below for the correct Manual or Specification Sheet.

**WARNING**: *NEVER* install tooling or service this tool while it is into any power source. Disconnect the power by unplugging or turn off the Actuator from its power source.

**CAUTION:** Keep fingers away from the crimping area when operating this tool. It may cause severe injury.

CAUTION: Wear safety glasses when operating or serving this tool.

The chart below shows all applications for this Modular Crimp Head.

Modular Crimp Head Order No.	Tool Order no.	Tool Description	Adapter Order No.	Adapter Description	Figure No.
	63816-0000	Hand Crimp Frame (Short)	N/A	N/A	5
	63816-0050	Hand Crimp Frame (Long)	N/A	N/A	5
63827-9270	63816-0200	Battery Power Tool (110 V)	63816-0600	Battery Power Crimp Adapter	6
	63816-0250	Battery Power Tool (220 V)	63816-0600	Battery Power Crimp Adapter	6
	63816-0100	Air Power Tool	63816-0700	Air Power Crimp Adapter	7

Applications for the Modular Crimp Head							
Hand Crimp Tool	Battery Powered Tool	Air Powered Tool					
LOCKING PINS HEAD HAND CRIMP FRAME LONG OR SHORT	LOCKING PINS BATTERY POWER CRIMP ADAPTER BATTERY POWERED TOOL	LOCKING PINS AIR POWER AIR POWER TOOL					
Figure 5	Figure 6	Figure 7					

# PARTS LIST

Item	Order Number	Description	Quantity
1	63827-9270	Modular Crimp Head	1
2	63816-0000	Hand Crimp Frame (Short)	1
3	63827-9275	Locator	1
4	63816-0001	Locking Pin	2
5	63600-0525	Handle Spring	1
6	63600-0520	Crimping Spring	2



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