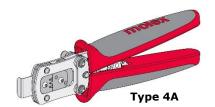
Order Number 213309-6700







FEATURES

- 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
- Modular crimp head is removable and can be used in the Electric Crimp Machine (Order No. 63816-1900), accompanied by Battery Powered Crimp Adapter (Order No. 63816-1950)
- Can also be used in the Battery Powered Tool Order No. 63816-0270 (110 V) or 63816-0280 (220 V), accompanied by Battery Powered Crimp Adapter (Order No. 63816-1950)
- This tool is RoHS compliant

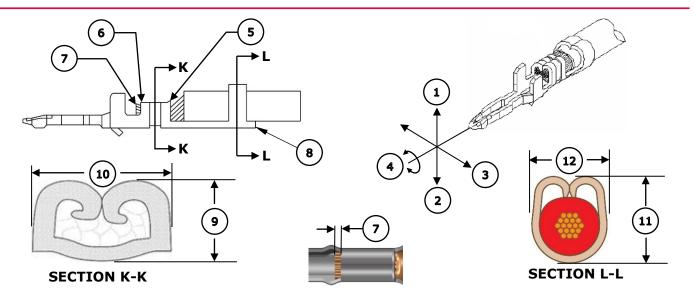
SCOPE

Products: OneBlade 1.0WB Crimp Terminals, 30-32 AWG, UL1571 Wire.

Terminal Series No.	Terminal Order No. (1)	Wire Size	Insulation Diameter Terminal		Strip Length	
		AWG	mm	In.	mm	In.
214093	214093-5100	30-32	0.54-0.70	.021028	1.20-1.50	.047059
(1) Customer to cut off terminal from reel.						

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DEFINITION OF TERMS



CRIMP SPECIFICATION

After crimping, the crimp profiles should measure the following:

Feature	Requiremen	t				
1. Bend Up	2º Max					
2. Bend Down	2º Max					
3. Twist	2° Max					
4. Roll	3° Max					
5. Bell Mouth Rear	0.05-0.20mm (.002008") Ref.					
6. Bell Mouth Front	Not Applicable					
7. Conductor Brush	0.10-0.30mm (.004012")					
8. Cut-Off Tab	0.10mm (.004") Maximum					
	Wire Type	Wire Size	9. Crimp Height		10. Crimp Width	
Conductor Crimp	UL1571	30 AWG	0.40-0.44mm	.016017 In.	0.60-0.64mm	024 02F In
	UL1571	32 AWG	0.39-0.43mm	.015017 In.	0.60-0.6411111	.024025 111.
	Wire Type	Wire Size	11. Crimp Height		12. Crimp Width	
Insulation Crimp	UL1571	30 AWG	0.90-1.00mm	.035039 In.	0.70-0.78mm	.028031 In.
	UL1571	32 AWG	0.80-0.88mm	.031035 In.	0.67-0.77mm	.026030 In.
	Wire Type	Wire Size	Minimum Force		Profile	
Pull Force	wire type wire size		Pillillum Force		Α	В
Pull Force	UL1571	30 AWG	4.90 N	1.10 lb.	X	
	UL1571	32 AWG	3.00 N	0.67 lb.		X

Tool Qualification Notes

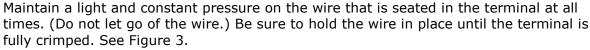
- 1. (Ref) means the dimension provided is approximate due to the wide range of wires, conductor stranding, insulation diameters and insulation hardness.
- 2. An occasional conductor crimp height measurement should be performed. It must lie between the minimum and maximum crimp height specification.
- 3. Pull force should be measured with no influence from the insulation crimp. To ensure this, strip the wire long enough so the terminal insulation grips do not contact the wire insulation.

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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. With the hand tool in the open position, pivot the terminal locator open by pulling on the locator knob, and lift the wire stop blade up. See Figure 1.
- 2. Insert the terminal into the correct profile until the terminal is fully seated and stops.
- 3. Gently pivot the locator closed.
- 4. Bring down the wire stop blade. Make sure the wire stop blade is fully seated on the terminal behind the conductor grip section.
- 5. Slide the pre-stripped wire into the terminal. Make sure to aim the wire brush toward the tip point on the wire stop blade. See Figure 2. Align the wire so that it is parallel and sitting into the terminal.



HAND TOOL

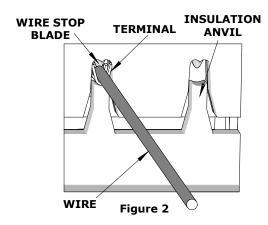
OPEN

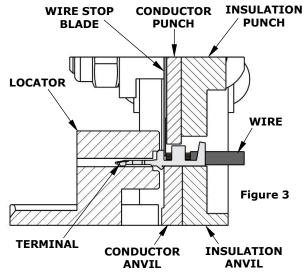
TERMINAL

SEATED IN

LOCATOR

- 6. Close the tool until the ratchet releases.
- 7. Lift the wire stop blade.
- 8. Carefully remove the crimped terminal.





SWING

LOCATOR

OPEN

WIRE

STOP BLADE

Figure 1

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

Note: To maintain good brush control and a consistent bell mouth, the crimping instructions must be followed.

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TERMINAL LOCATOR REPLACEMENT

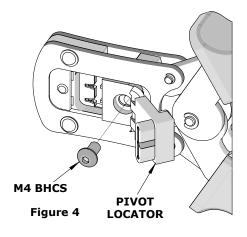
This section describes the procedure for changing locators.

Removal

- 1. With the tool in the open position, pivot the terminal locator outward.
- 2. Remove the M4 BHCS. See Figure 4.

Installation

- 1. Place the proper locator on the hand tool. Install the M4 BHCS. See Figure 4.
- 2. Tighten the screw enough to hold the locator. Make sure the locator can still float freely with hand pressure.
- Insert the proper terminal fully into the correct profile slot until the terminal is fully seated and stops. Then, gently pivot the locator closed.
- 4. With hand pressure, slowly slide the locator to the correct position. See Figure 5.
- 5. Gently pivot the locator open without disturbing the location.
- 6. Hold the locator firmly in place, and slowly tighten the M4 BHCS.



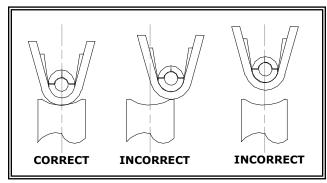


Figure 5

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 a 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 the hand tool, particularly from the crimping area. Oil transferred from the crimping area onto certain terminations may affect the electrical characteristics of an application.
- 5. When the 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 9.

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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, Molex 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 use 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.

CAUTION: Molex crimp specifications are valid only when used with Molex terminals 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 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 are damaged or worn, a new tool must be purchased.
- 5. Pull force is measured with no influence from the insulation crimp. The insulation should be stripped long (.50") 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 hand crimp tools.

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

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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 plugged 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 servicing this tool.

The chart below shows all applications for this modular crimp head:

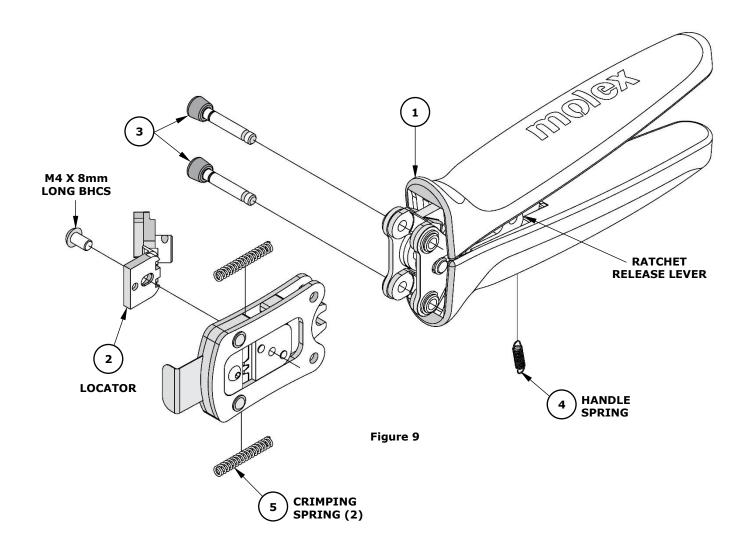
Tool Order No.	Tool Description	Adapter Order No.	Adapter Description	Figure No.
63816-0000	Hand Crimp Frame (Short)	_	_	6
63816-0050	Hand Crimp Frame (Long)			6
63816-0270	Battery Power Tool (110 V)	63816-1950	Battery Power Crimp Adapter	7
63816-0280	Battery Power Tool (220 V)	63816-1950	Battery Power Crimp Adapter	7
63816-1900	Electric Crimp Machine	63816-1950	Battery Power Crimp Adapter	8

Applications for the Modular Crimp Head					
Hand Crimp Tool	Battery Powered Tool	Electric Crimp Machine			
LOCKING PINS HAND CRIMP HEAD HAND CRIMP FRAME LONG OR SHORT	LOCKING PINS BATTERY POWERED CRIMP ADAPTER PINS BATTERY POWERED TOOL	BATTERY POWER CRIMP ADAPTER ELECTRIC CRIMP MACHINE			
Figure 6	Figure 7	Figure 8			

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PARTS LIST

Hand Crimp Tool 213309-6700					
Item	Order Number	Description	Quantity		
1	63816-0000	Hand Crimp Frame (Short)	1		
2	213309-6775	Locator	1		
3	63816-0001	Locking Pin	2		
4	63600-0525	Handle Spring	1		
5	63600-0520	Crimping Spring	2		



Application Tooling Support

Phone: (402) 458-TOOL (8665)
E-Mail: toolingsupport@molex.com
Website: www.molex.com/applicationtooling

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