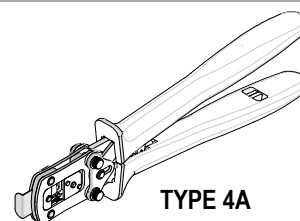


Modular Crimp Head
Order No. 63828-0770

molex

Application Tooling Specification Sheet



Hand Crimp Tool
Order No. 63828-0700

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
- % A-620 Class 2 compliant as indicated and RoHS compliant
- % Modular Crimp Head is removable and can be used 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)

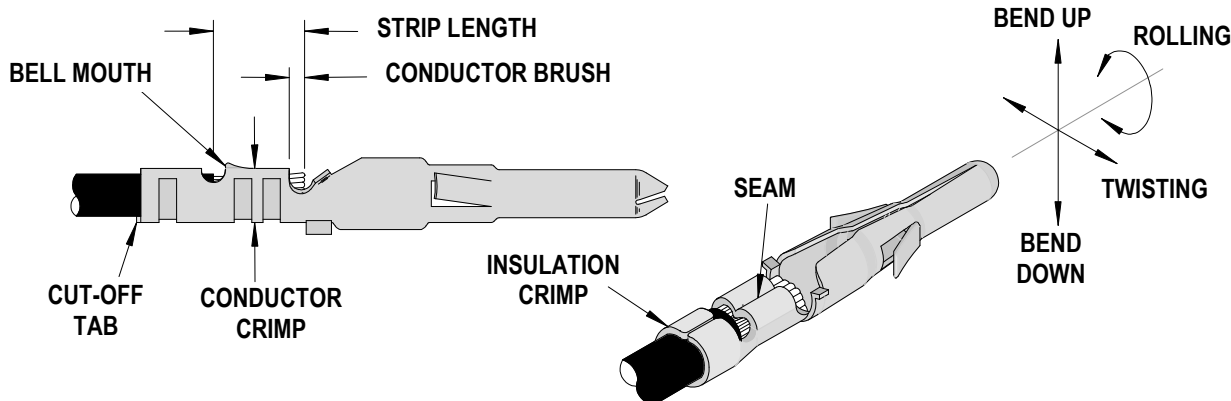
Products: EconoLatch® Male and Female Terminals, 20 AWG UL1007 and UL1061 wires.

Terminal Series No.	Terminal Order No.	Wire		Insulation Diameter				Strip Length	
				IPC/WHMA-A620 (1)		Terminal (2)			
		Wire Type	AWG	mm	In.	mm	In.	mm	In.
150180	150180-1020	UL1007	20	1.75-1.80	.069-.071	1.20-1.80	.047-.071	3.18-3.96	.125-.156
		UL1061	20	1.35-1.60	.053-.063	1.20-1.80	.047-.071	3.18-3.96	.125-.156
150181	150181-1020	UL1007	20	1.75-1.80	.069-.071	1.20-1.80	.047-.071	3.18-3.96	.125-.156
		UL1061	20	1.35-1.60	.053-.063	1.20-1.80	.047-.071	3.18-3.96	.125-.156

(1) To achieve optimum IPC-A620 insulation crimps, use this insulation OD range.

(2) Overall insulation OD specification for terminal.

DEFINITION OF TERMS



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

CRIMP SPECIFICATIONS

Terminal Series No.	Bell Mouth		Conductor Brush	
	mm	In.	mm	In.
150180	0.10-0.60	.004-.024	0.25-0.65	.010-.026
150181	0.10-0.60	.004-.024	0.25-0.65	.010-.026

Terminal Series No.	Bend Up Bend Down		Twist Roll		Seam
	Degree (Max)		Degree (Max)		Seam shall not be open, and no wire is allowed out of the crimping area.
150180	3	3	5	10	
150181	3	3	5	10	

After crimping, the conductor profile should measure the following:

Terminal Series No.	Wire		Conductor Crimp				Insulation Crimp				Pull Force Minimum		Profile	
			Height		Width		Height (Ref.)		Width (Ref.)					
	Wire Type	AWG	mm	In.	mm	In.	mm	In.	mm	In.	N	Lb.	A	B
150180	UL1007	20	0.88-0.98	.035-.039	1.50-1.58	.059-.062	2.10	.083	2.15	.085	66.7	15.0	X	
	UL1061	20	0.88-0.98	.035-.039	1.50-1.58	.059-.062	2.05	.081	1.80	.071	66.7	15.0		X
150181	UL1007	20	0.88-0.98	.035-.039	1.50-1.58	.059-.062	2.10	.083	2.15	.085	66.7	15.0	X	
	UL1061	20	0.88-0.98	.035-.039	1.50-1.58	.059-.062	2.05	.081	1.80	.071	66.7	15.0		X

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 up on the locator knob, and lift the wire stop blade. See Figure 1.

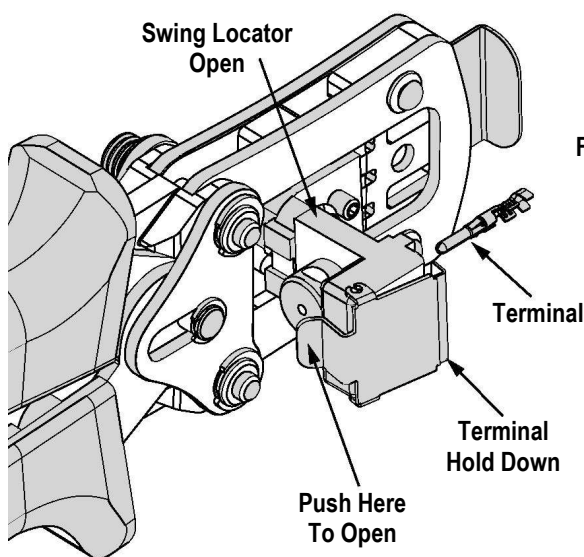
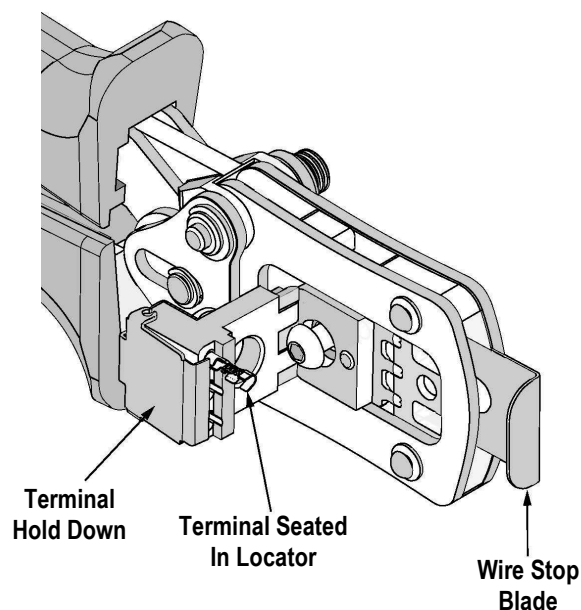


Figure 1



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.

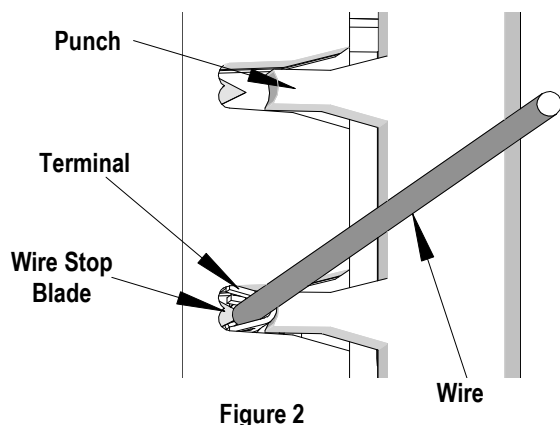


Figure 2

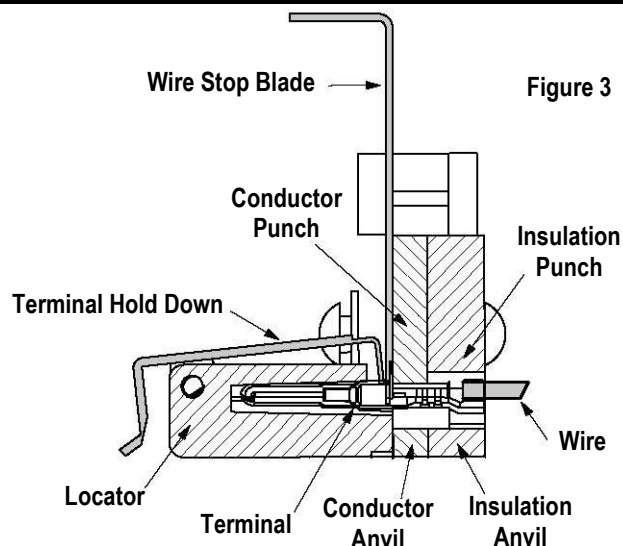


Figure 3

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. Maintain a light and constant pressure on the wire that is seated in the terminal at all times. (Do not let go of the wire.) Be sure to hold the wire and terminal in place until the terminal is fully crimped. See Figure 3.
6. Close the tool until the ratchet releases.
7. Lift the wire stop blade.
8. Carefully remove the crimped terminal.

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

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

Maintenance

It is recommended that each tool operator 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 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 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, 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.

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. 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 should be used as the final criterion 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.

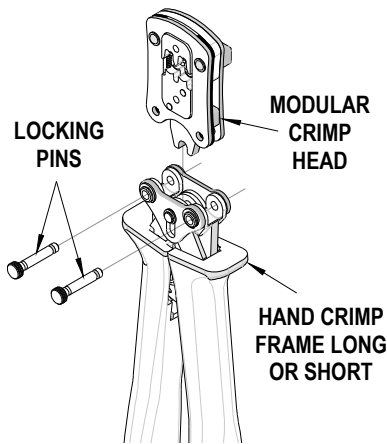
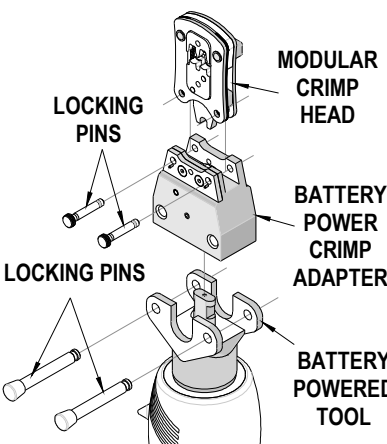
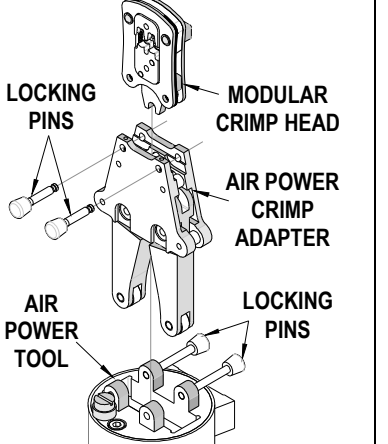
WARNING: NEVER install tooling or service this tool while it is into any power source. Disconnect the power by unplugging, or turn off the Actuator from its power source.

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.

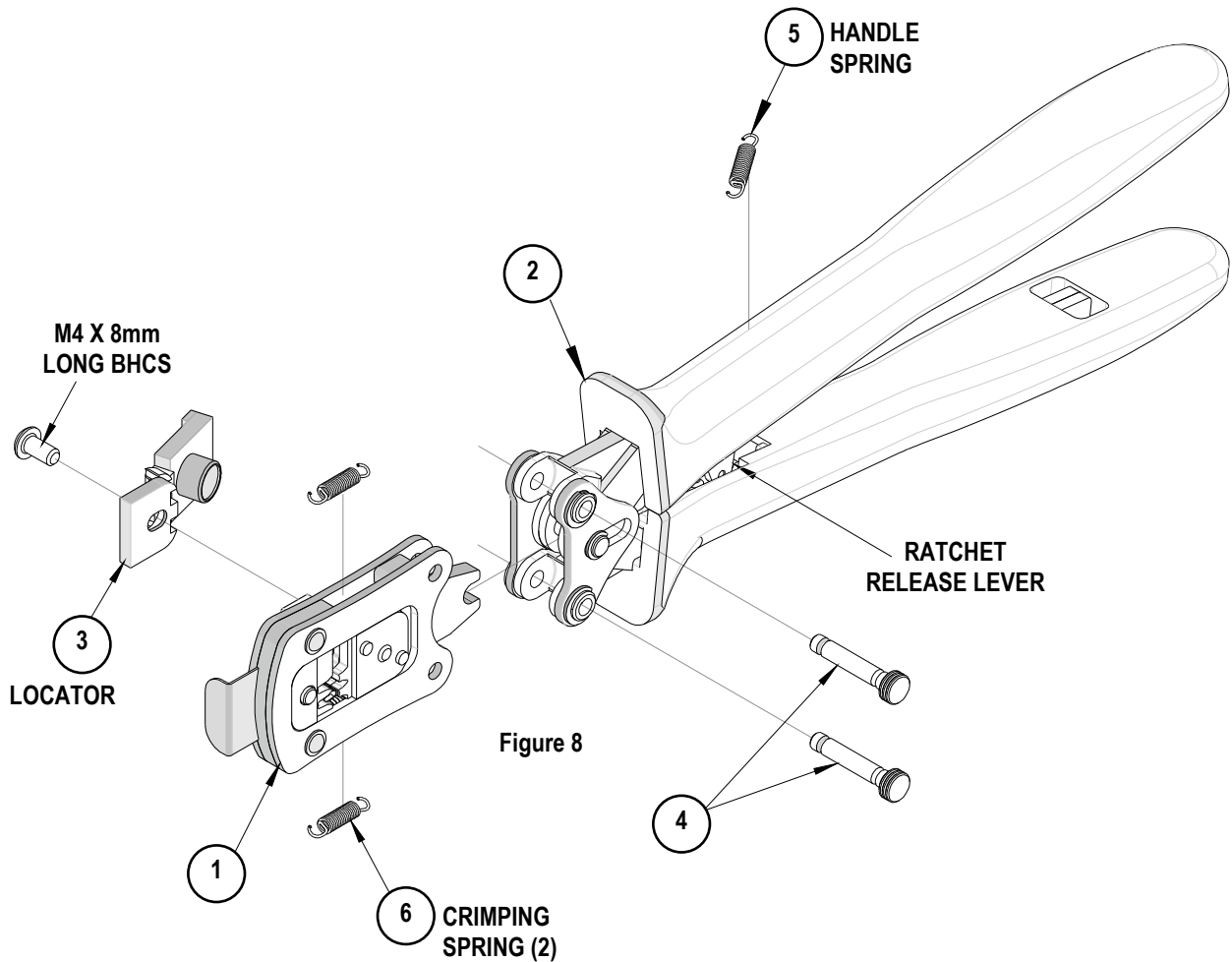
The chart below shows all applications for this Modular Crimp Head:

Modular Crimp Head Order No.	Tool Order No.	Tool Description	Adapter Order No.	Adapter Description	Figure No.
63828-0770	63816-0000	Hand Crimp Frame (Short)	N/A	N/A	5
	63816-0050	Hand Crimp Frame (Long)	N/A	N/A	5
	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
 Diagram illustrating the Hand Crimp Tool application. The Modular Crimp Head is shown being attached to the Hand Crimp Frame Long or Short using Locking Pins.	 Diagram illustrating the Battery Powered Tool application. The Modular Crimp Head is shown being attached to the Battery Power Crimp Adapter using Locking Pins. The Battery Powered Tool is then shown being attached to the Battery Power Crimp Adapter using Locking Pins.	 Diagram illustrating the Air Powered Tool application. The Modular Crimp Head is shown being attached to the Air Power Crimp Adapter using Locking Pins. The Air Power Tool is then shown being attached to the Air Power Crimp Adapter using Locking Pins.
Figure 5	Figure 6	Figure 7

PARTS LIST

Item	Order Number	Description	Quantity
1	63828-0770	Modular Crimp Head	1
2	63816-0050	Hand Crimp Frame (Long)	1
3	63828-0775	Locator	1
4	63816-0001	Locking Pin	2
5	63600-0525	Handle Spring	1
6	63600-0520	Crimping Spring	2



Application Tooling Support

Phone: +1-402-458-TOOL (8665)
E-Mail: applicationtooling@molex.com
Website: www.molex.com/applicationtooling

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9