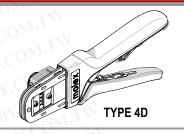
勝 特 力 材 料 886-3-5753170 胜特力电子(上海) 86-21-34970699 胜特力电子(深圳) 86-755-83298787 Http://www.100y.com.tw

HAND CRIMP TOOL



Application Tooling Specification Sheet



Order No. 63819-0300

FEATURES

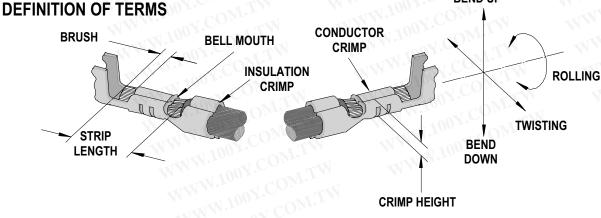
- A full cycle ratcheting hand tool ensures complete crimps
- Ergonomic soft grip handles for comfortable crimping
- A precision user-friendly terminal locator wire stop holds terminals in the proper crimping position
- Right and Left handed applications
- This tool is WHMA-IPCA620 Class 2 compliant as indicated
- This tool is RoHS compliant, however RoHS compliant is not required

SCOPE

Products: 1.25mm (.049") Pitch PicoBlade™ Crimp Terminals, 26-32 AWG

Terminal Series No.	Terminal Order No.		Wire Size		Insulation Diameter		Strip Length	
Terminal Series No.	Loose Piece	* Reel	AWG	mm²	mm	In.	mm	In. C
1001.0	50058-8100	50058-8000		001.	MIT			100 -
50058	50058-8400	50058-8500	28-32	0.08-0.03	.67-1.00	.027039	1.40-1.91	.055075
	CON.	50058-8099	WW	.100	.OM	N.	WW	N.10
50061	50061-8100	50061-8000	28-32	0.08-0.03	.67-1.00	.027039	1.40-1.91	.055075
WWW	50079-8100	50079-8000	211	1001	. Cont	TN	N.	100
50079	50079-8153	50079-8053	26-28	0.12-0.08	.67-1.00	.027039	1.40-1.91	.055075
W 1 10	M.	50079-8099		W.100		V. 1		1.W.W.
50080	50080-8100	50080-8000	26-28	0.12-0.08	.67-1.00	.027039	1.40-1.91	.055075

Customer to cut off terminal from reel: 0.15mm (.006") maximum Cut-off Tal



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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BEND UP

CONDITIONS:

Terminal Series No	Cino	Conductor Crimp				Insulation Crimp			Pull Force		Drofilo					
	Size	Height (Ref.)		Width (Ref.)		Height (Ref.)		Width (Ref.)		Minimum		Profile				
	AWG	mm ²	mm	In. C	mm	In.	mm	In.	mm	In.	N	Lb.	Α	В	С	D
ON.I	28	0.08	0.39-0.49	.015019	0.84	.033	1.15	.045	0.91	.036	9.8	2.20	Х			
50058	30	0.05	0.37-0.47	.014018	0.84	.033	1.15	.045	0.91	.036	4.9	1.10	Х			
	32	0.03	0.37-0.47	.014018	0.84	.033	1.15	.045	0.89	.035	2.9	0.66	Х			
CON	28	0.08	0.39-0.49	.015019	0.84	.033	1.16	.046	0.91	.036	9.8	2.20		~ 1		Х
50061	30	0.05	0.37-0.47	.014018	0.84	.033	1.11	.044	0.91	.036	4.9	1.10	1.1			Х
	32	0.03	0.37-0.47	.014018	0.84	.033	1.03	.041	0.89	.035	2.9	0.66	. 6	17		Х
50079	26	0.12	0.50-0.60	.020024	0.86	.034	1.22	.048	0.93	.037	9.8	2.20	M	Х	< N	
50079	28	0.08	0.50-0.60	.020024	0.85	.033	1.20	.047	0.91	.036	9.8	2.20	1	Х		
50080	26	0.12	0.50-0.60	.020024	0.86	.034	1.22	.048	0.93	.037	9.8	2.20			Х	
50060	28	0.08	0.50-0.60	.020024	0.85	.033	1.20	.047	0.91	.036	9.8	2.20	10	Nr.	X	

After crimping, the conductor profiles should measure the following.

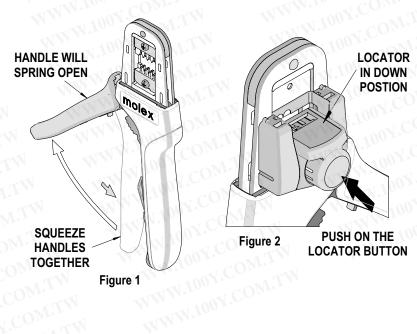
OPERATION

CAUTION: Install only Molex terminals listed above with this tool. Do not crimp hardened objects as damage can occur to the tool or die.

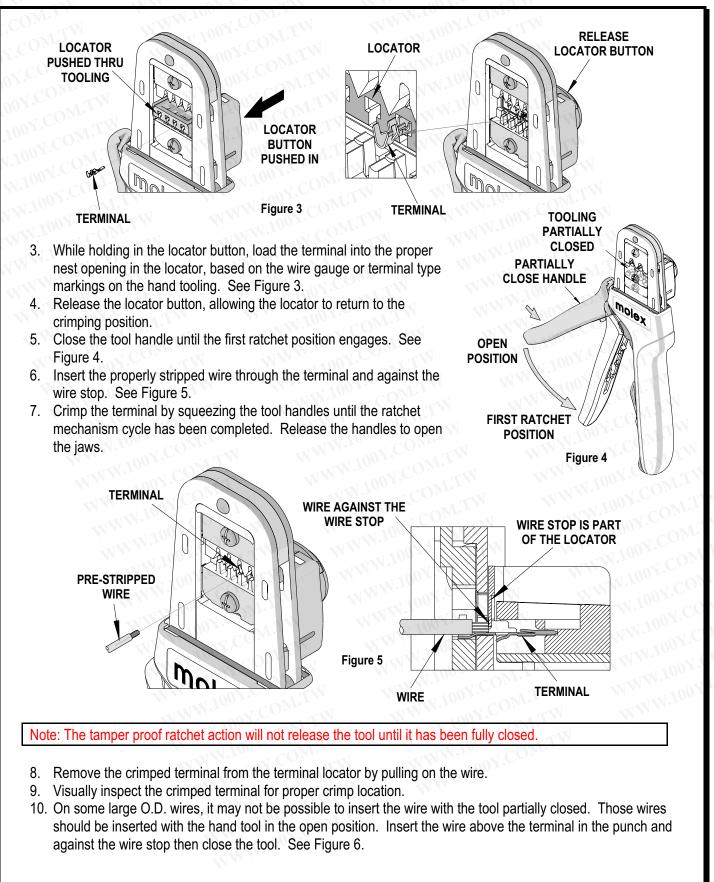
Open the tool by squeezing the handles together. At the end of the closing stroke, the ratchet mechanism will release the handles and the hand tool will spring open. See Figure 1.

Crimping Terminals

- 1. Select the desired terminal listed from the preceding charts. Then install it in the proper locator (See chart above and see Locator Installation on page 5).
- 2. Make sure the center of the locator is in the down position. With the locator attached, push the locator button on the back of the hand tool to bring the locator forward through the tooling. See Figure 2.



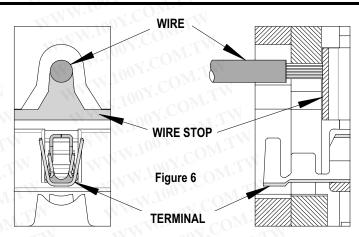
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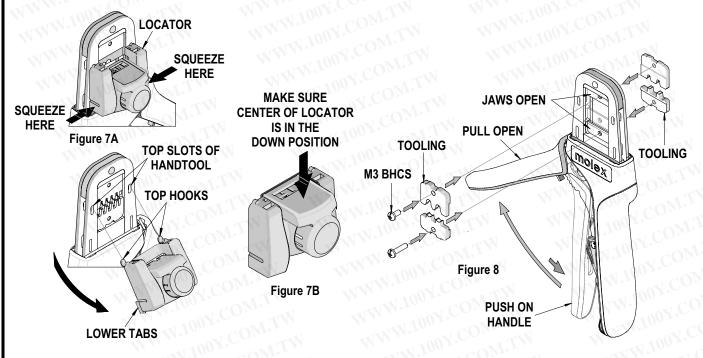
Note:

A crimp height chart is provided with this manual as <u>Reference Only.</u> Due to the wide range of wires, strands, insulation diameters, and durometers available, actual crimp height measurements may very slightly. An occasional, destructive, pull force test should be preformed to check hand tool crimp. Pull Force value <u>Must</u> exceed the Minimum pull force specifications listed.

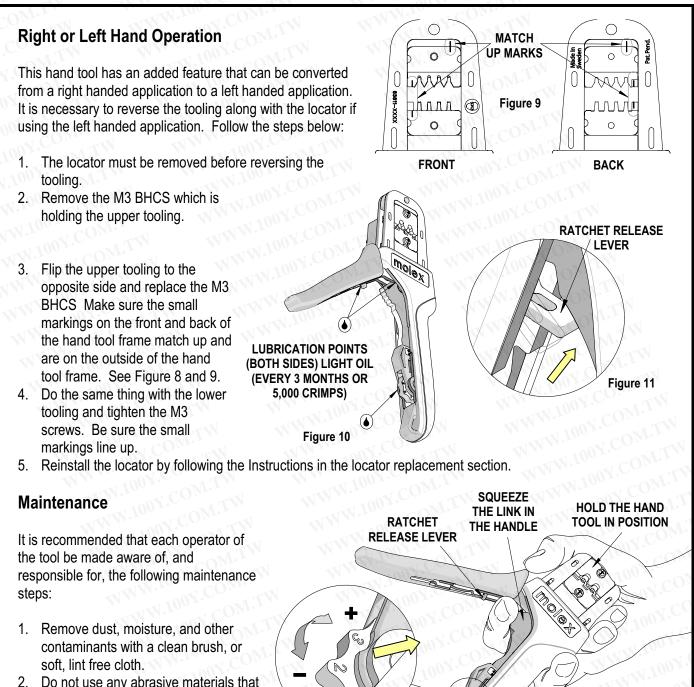


Locator Replacement

See the parts list on the last page of this document for the proper locator order number. Follow the steps below to replace the locator.



- 1. Open the crimp hand tool.
- 2. Squeeze gently on the lower area shown in Figure 7A with your thumb and index finger. The lower tabs of the locator should disengage from the hand tool.
- 3. Lift and pull away from the hand tool. The top locator hooks should slip out of the top slots easily. See Figure 7A.
- 4. To reinstall the new locator, make sure the hand tool is in the open position.
- 5. Press the red insert down as far as it will go as shown in Figure 7B.
- 6. Holding onto the lower part of the locator with your thumb and index finger, insert the locator top hooks (2) into the hand tool top slots.
- 7. Rotate the locator down and press the lower tabs into the two bottom slots of the hand tool. To secure the locator into place, the lower tabs must snap into place on the hand tool frame.



- 2. Do not use any abrasive materials that could damage the tool.
- 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.

SETTING

WHEEL

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Figure 12

- 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 pressing up on the ratchet release lever in the movable handle. See Figure 11

How to Adjust Tool Preload

(See Figure 12)

This hand tool is factory preset to 25-45 LBS. preload. It may be necessary over the life of the tool to adjust tool handle preload force. Listed below are the steps required to adjust the crimping force of the hand tool to obtain proper crimp conditions:

- 1. Hold the hand tool in the palm of your hand as shown in Figure 12. Using the index finger squeeze the link towards the top of the hand tool frame. This will release the preload adjustment wheel.
- 2. Rotate the setting wheel counter-clockwise (CCW) to increase handle force. The numbers will display higher. To decrease handle force, rotate the setting wheel clockwise (CW).
- 3. Release the link to lock the setting wheel in place.
- 4. Check the crimp specifications or conduct a pull test after tool handle preload 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 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: Molex crimp specifications are valid only when used with Molex terminals and tooling.

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.

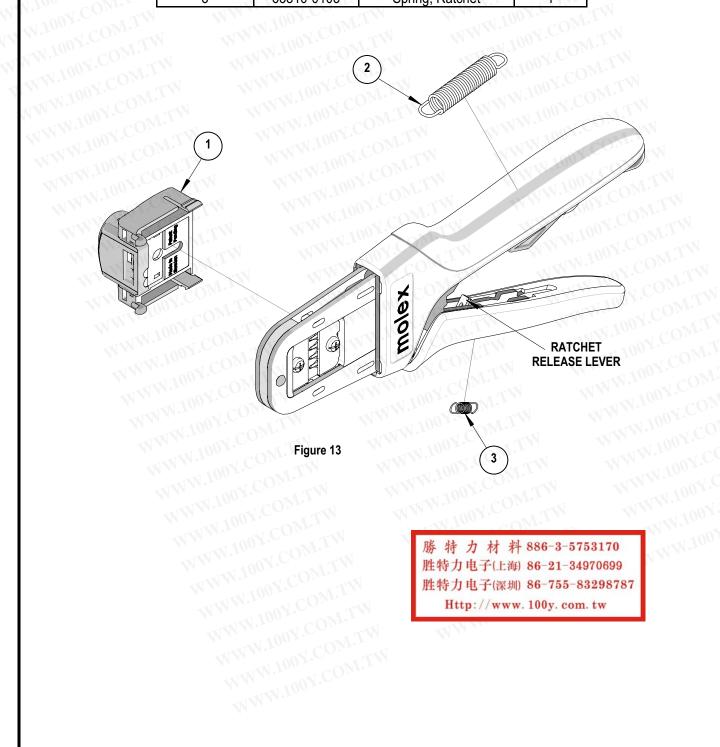
Certification

Molex does not certify or re-certify hand tools but rather supplies the following guidelines for customers to re-certify hand tools.

- 76 This tool is qualified to pull force only. To re-certify, crimp a terminal to a wire, which has been stripped 12.7mm (1/2") long, so there is no crimping of the insulation. Pull the terminal and wire at a rate no faster than 25mm (1.00") per minute. See the Molex web site for the Quality Crimp Handbook for more information on pull testing.
- % If the tool does not meet minimum pull force values, handle preload should be increased and the pull test rerun, (See How to Adjust Preload).
- % When the hand tool is no longer capable of achieving minimum pull force, it should be taken out of service and replaced.

PARTS LIST

WWW.100Y	COM.TW	WWW.100Y.CO	WT.MC
Item Number	Order Number	Description	Quantity
REF	63819-0300	Hand Crimp Tool	Figure 13
1.111.	63819-0375	Locator Assembly (Red)	.CO1
2	63810-0104	Spring, Return	a cam.
3	63810-0105	Spring, Ratchet	-bM



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