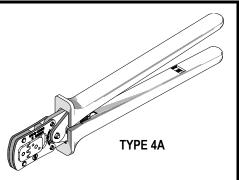


HAND CRIMP TOOL Specification Sheet Order No. 63819-4000



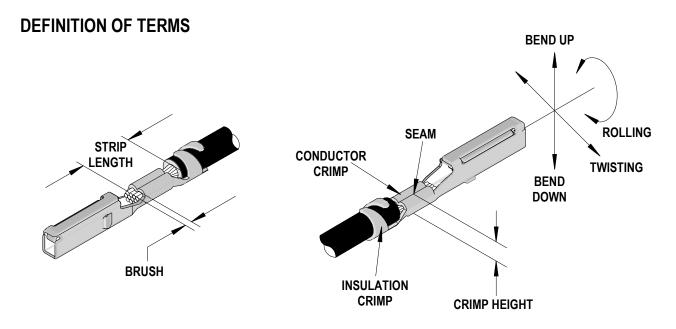
FEATURES

- % 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
- % RoHS compliant although not required

SCOPE

Products: CTX 1.50mm Receptacle Crimp Terminal for 0.75, 0.85, 1.00, and 1.25mm² wires.

Terminal	Terminal Order No. *Reel Form only		Wire Size		Insulation Diameter		Wire Strip Length	
Series			Wire Style	mm ² / AWG	mm	ln.	mm	ln.
502307	502307-0112 502307-1112 502307-2112	502307-0122 502307-1122 502307-2122	ISO	0.75		.071087	4.50-5.00	.177197
			AVSS	0.85	1.80-2.20			
			ISO	1.00				
			AVSS	1.25				
*Customer to cut off terminal from reel: 0.30mm (.012") maximum Cut-off Tab.								



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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CONDITIONS:

Terminal	Bell mouth		Conductor Brush		Bend up	Bend Down	Twist	Roll
Series	mm	ln.	mm	ln.	Degree		Degree	
502307	0.20-0.55	.008022	0.20-0.70	.008028	1.5	1.5	4	6

After crimping, the crimp profiles should measure the following (See notes on page 4).

Terminal	Wire Size		Conductor Crimp Reference				Profile		
Series No			Height		Punch Width		0.75-0.85mm ²	1.0mm ²	1.25mm ²
	Wire Style	mm ² / AWG	mm	ln.	mm	In.	Α	В	С
	ISO	0.75	0.95-1.05	.037041	2.05	.081	Х		
502307	AVSS	0.85	1.00-1.10	.039043	2.05	.081	Х		
502507	ISO	1.00	1.05-1.15	.041045	2.05	.081		Х	
	AVSS	1.25	1.15-1.25	.045049	2.05	.081			Х

Terminal	Wire Size		×Ins	Pull Force				
Series No.	VVIIG	SIZE	Height N	laximum	Width Ma	Minimum		
Series NO.	Wire Style	mm ² / AWG	mm	In.	mm	In.	Ν	Lb.
	ISO	0.75	2.30	.091	2.45	.097	115.0	25.9
502307	AVSS	0.85	2.30	.091	2.45	.097	130.0	29.3
502507	ISO	1.00	2.50	.098	2.45	.097	120.0	27.0
	AVSS	1.25	2.60	.102	2.45	.097	180.0	40.5
✗ Insulation crimp should meet IPC/WHMA-A-620 Class 2 compliance.								

Pull Force should be measured with no influence from the insulation crimp. The above specifications are guidelines to an optimum crimp.

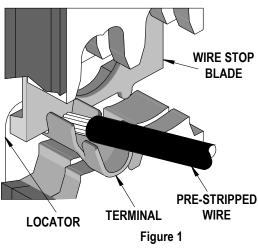
OPERATION

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.

Crimping Terminals

- 1. Lift the wire stop blade up.
- 2. Insert the terminal fully into the correct profile until the terminal is fully seated and stops.
- 3. Bring down the wire stop blade.
- 4. Slide the pre-stripped wire into the wire stop blade. See Figure 1. Be sure to hold the wire in place until the terminal is fully crimped. See Figure 2.
- 5. Close the tool until the ratchet releases, the tool handles will then spring open.
- 6. Lift the wire stop blade up if it is still in down position.
- 7. Carefully remove the crimped terminal.

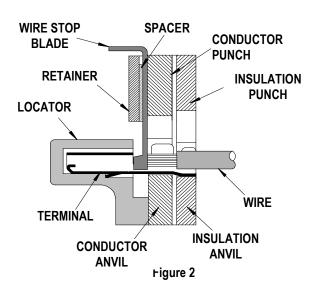
Note: To maintain good brush control and a consistent bell mouth the crimping instructions must be followed.



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.
- 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 (See Figure 3)

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 pushing the ratchet release lever.

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 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.

CAUTION: Repetitive use of this tool should be avoided.

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

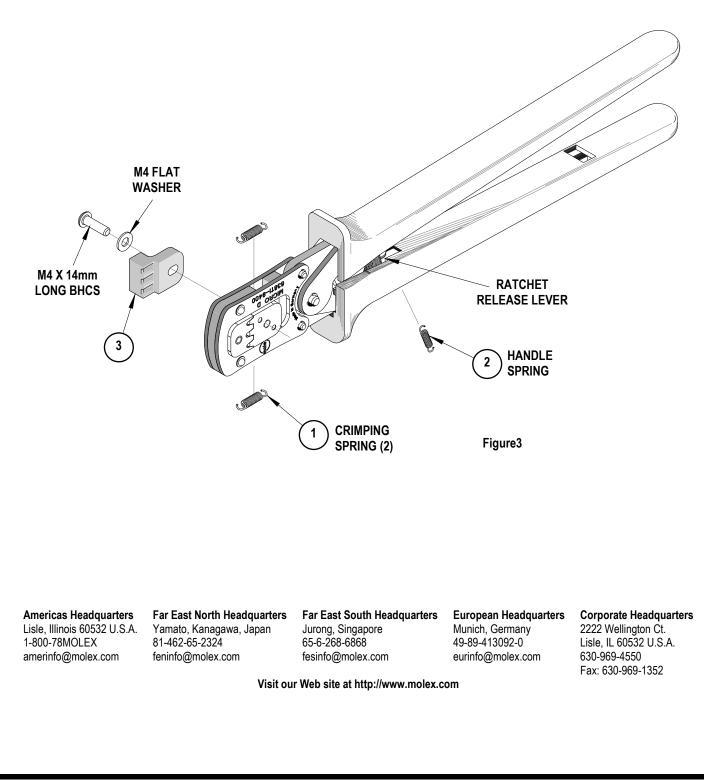
Notes:

- 1. This tool should only be used for the terminals and wire gauges specified on this sheet.
- 2. This tool is not adjustable. Variations in tools, terminals, and wire stranding and insulation types may affect crimp height.
- 3. This tool is intended only for the wire types specified. 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, applicators and tooling.

PARTS LIST

Item Number	Order Number	Description	Quantity	
1	63600-0520	Crimping Spring	2	
2	63600-0525	Handle Spring	1	
3	63811-4075	Locator	1	



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