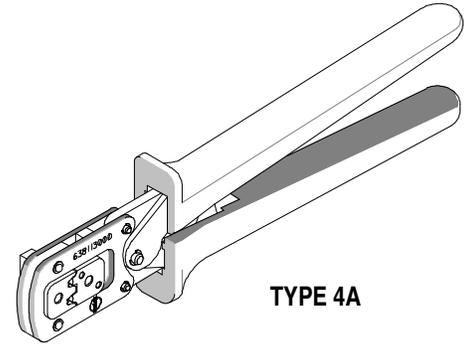




Hand Crimp Tool Specification Sheet Order No. 63811-5900



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

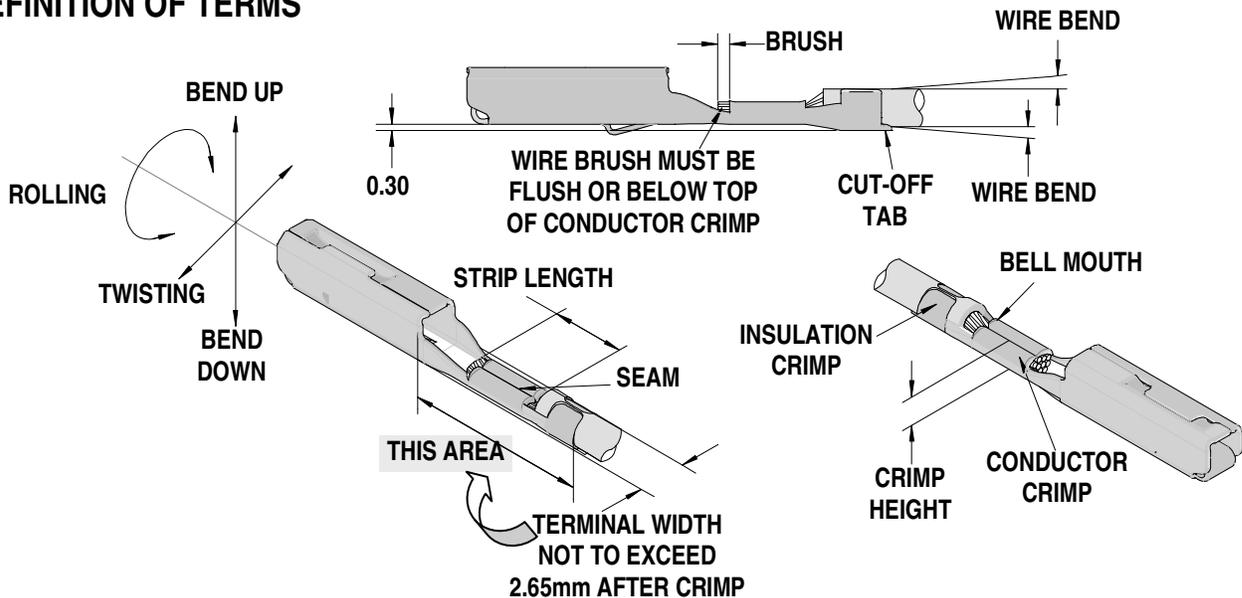
SCOPE

Products: 1.50mm (.591") Pitch, MX150™ Receptacle Female Crimp Terminals, 14-16 AWG.

Terminal Series No.	Terminal Order No.		Wire Size		Insulation Diameter		Strip Length	
	● Reel		AWG	mm ²	mm	In.	mm	In.
33001	33001-2003	33001-3003	14-16	1.30-2.00	2.18-2.69	.087-.106	4.70-5.60	.185-.220
33012	33012-2003	33012-3003	14-16	1.30-2.00	2.18-2.69	.086-.106	4.70-5.60	.185-.220

● Customer to cut off terminal from reel: 0.25mm (.010") maximum Cut-off Tab.
 Terminals were validated per USCAR-21 using the following wire specifications:
 M1L-123A (TXL), M1L-135A1 (UTX), and M1L-126A1 (metric-TXL)
 Customers are required to complete validation testing if tooling purchased outside
 Molex Inc. and/or wire specifications are different than above.

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 SPECIFICATION

Terminal Series No.	Bell mouth		● Conductor Brush	
	mm	In.	mm	In.
33001	0.25-1.25	.010-.049	0.15-0.40	.006-.016
33012	0.25-1.25	.010-.049	0.15-0.40	.006-.016
● Wire brush to be below top of conductor crimp.				

Terminal Series No.	Bend up	Bend down	Twist	Roll	Seam Seam shall not be open and no wire allowed out of the crimping area
	Degree		Degree		
33001	✘ Crimped terminals and up to 5mm of wire past the insulator cutoff tab must freely fit in the Checking Aid, Part No. 63868-2008				
33012					

✘ Order Separately

After crimping, the crimp profiles should measure the following:

Terminal Series No.	Wire Size		Crimp Conductor				Profile AWG	
			Height		Width		16	14
	AWG	mm ²	mm	In.	mm	In.		
33001	14	2.00	1.60-1.70	.063-.067	2.35-2.55	.092-.100		X
	16	1.27	1.30-1.40	.051-.055	2.35-2.55	.092-.100	X	
33012	14	2.00	1.60-1.70	.063-.067	2.35-2.55	.092-.100		X
	16	1.27	1.30-1.40	.051-.055	2.35-2.55	.092-.100	X	

Terminal Series No.	Wire Size		Crimp Insulation				Pull Force Minimum	
			Height		Width		N	Lb.
	AWG	mm ²	mm	In.	mm	In.		
33001	14	2.00	2.60-2.80	.102-.110	2.50-2.70	.098-.106	180.1	40.5
	16	1.27	2.30-2.50	.090-.098	2.50-2.70	.098-.106	120.1	27.0
33012	14	2.00	2.60-2.80	.102-.110	2.50-2.70	.098-.106	180.1	40.5
	16	1.27	2.30-2.50	.090-.098	2.50-2.70	.098-.106	120.1	27.0

* Tool Qualification Notes:

1. Pull Force should be measured with no influence from the insulation crimp.
2. 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 die profile and the locator slot until the terminal is fully seated and stops.
3. Push down the wire stop blade. Make sure the wire stop blade is fully seated on the terminal behind the conductor grip section.
4. Slide the pre-stripped wire into the terminal; make sure to aim the wire end towards the tip point on the wire stop blade. See Figure 1. Align the wire so that it is parallel to, 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 2.
5. Close the tool until the ratchet releases.
6. Carefully remove the crimped terminal.

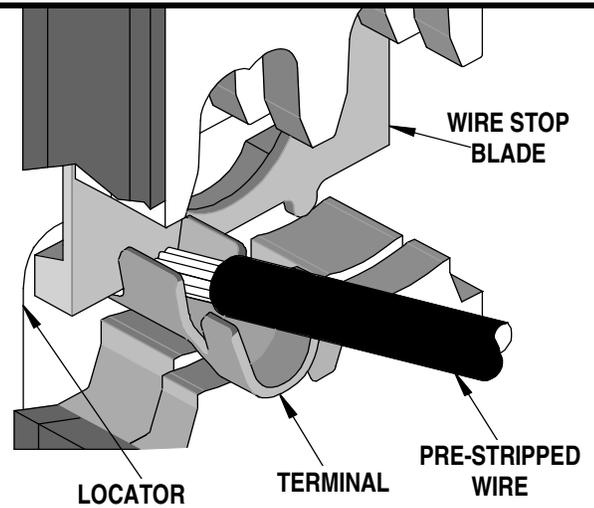


Figure 1

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.
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.
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.

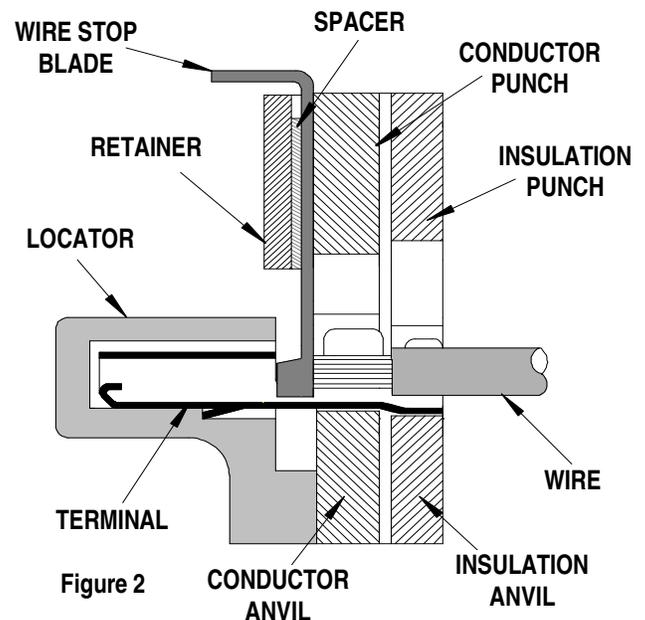


Figure 2

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.

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

CAUTION: Repetitive use of this tool should be avoided.

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, 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, applicators and tooling.

PARTS LIST

Item	Order Number	Description	Quantity
1	63600-0520	Crimping Spring	2
2	63811-5975	Locator	1
3	63600-0525	Handle Spring	1

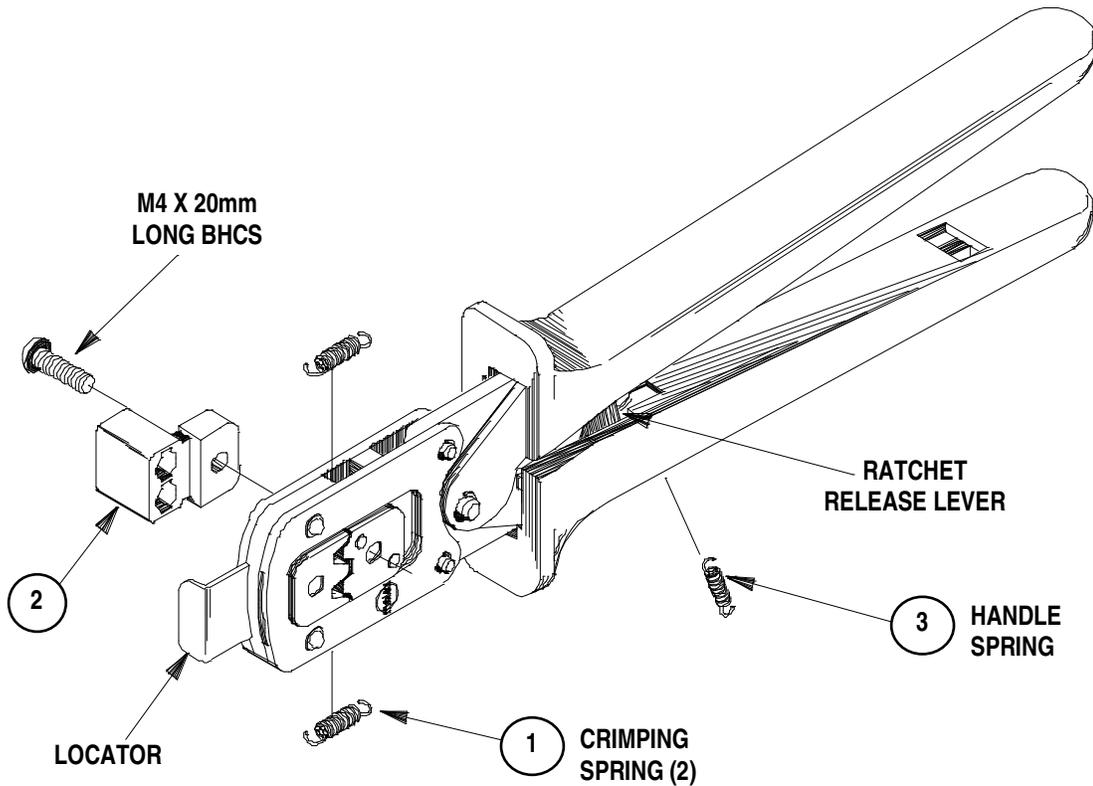


Figure 3

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