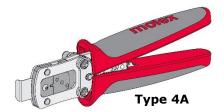
Order Number 200218-4300







FEATURES

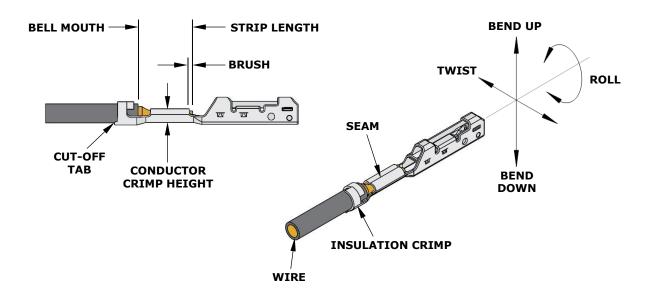
- A full cycle ratcheting hand tool ensures complete crimps
- Ergonomically designed soft handles
- Precisely designed crimping profiles with simple contact positioning
- Easy handling due to outstanding force ratio
- Modular crimp head is removable and can be used in the Electric Crimp Machine (Order No. 63816-1500), accompanied by Battery Powered Crimp Adapter (Order No. 63816-0600)
- 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. 63816-0600)

SCOPE

Products: CTX50 Small Grip Sealed Receptacle Crimp Terminals. 0.13mm² FLR2X CUSN wire.

Terminal Series No.		Wire		Insulation Diameter		Strip Length (Ref)		
Series No.	Series No.		Wire Type	Wire Size	mm	In.	mm	In.
34905	34905-2448	34905-2450	FLR2X CUSN	0.122	0.05.1.05	027 041	3.70	1.46
34905	34905-6448	34905-6450	FLRZX CUSIN	0.13111111	0.95-1.05	.037041	3.70	.146

DEFINITION OF TERMS



Doc. No: 2002184300 Release Date: 02-14-20 UNCONTROLLED COPY Page 1 of 7

CRIMP SPECIFICATION

After crimping, the crimp profiles should measure the following:

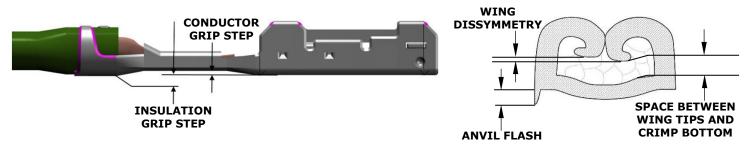
Terminal Series	Bell Mouth		Conducto	r Brush	Crimp Bulge (Max)	
No.	mm	In.	mm	In.	mm	In.
34905	0.30-0.60	.012024	0.30-0.70	.012028	1.25	.049

Terminal Series	Bend Up	Bend Down	Twist	Roll	Saam		
No.	Degr	ee Max.	Degree Max.		Degree Max.		Seam
34905	1	1	2	_	Seam shall not be open and no wire allowed out of the crimping area		

Townsian Course	VA/		Conductor				
Terminal Series	Wi	re	Crimp Height		Crimp Width (Ref)		
No.	Wire Type	Wire Size	mm	In.	mm	In.	
34905	FLR2X CUSN	0.13mm ²	0.60-0.66	.024026	0.86-0.92	.034036	

Terminal Series	Wir		Insulation					Pull Force	
	VVII	е	Crimp Height		Crimp Width (Ref)		Minimum		Profile
No.	Wire Type	Wire Size	mm	In.	mm	In.	N	Lb.	Α
34905	FLR2X CUSN	0.13mm ²	1.15-1.21	.045047	1.15-1.21	.045047	50	11.3	Х

Terminal	Conductor	Anvil Flash	Conductor	Grip Step	Insulation	Grip Step	Wing Diss	ymmetry	Space Between Wing Tips
Series No.	mm	In.	mm	In.	mm	In.	mm	In.	and Crimp Bottom
34905	0.10 Max	.004 Max	0.09-0.19	.004007	0.04-0.24	.002009	0.00-0.10	.000004	No Contact



Tool Qualification Notes

- 1. (Ref) means that the dimension provided is approximate because of the wide range of wires, conductor stranding, insulation diameter 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.

Notes

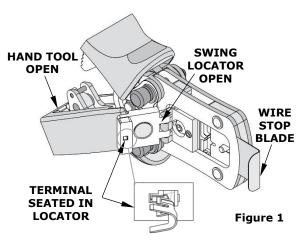
- 1. This tool should only be used for the terminals and wire gauges specified on this sheet.
- 2. Variations in tools, terminals, wire stranding and insulation types may affect crimp height.
- 3. This tool is intended for metric conductor sizes. It may not give good insulation crimp support for insulation sizes outside of the specified range.
- 4. Molex does not repair hand tools. See warranty on page 5. The replacement parts listed are the only parts available for repair. If the handles or crimp tooling become damaged or worn, a new tool must be purchased.
- 5. Conductor crimp height should be used as the final criterion for an acceptable crimp. Refer to Molex Quality Crimping Handbook 63800-0029 for additional information on crimping and crimp testing.
- 6. Molex does not certify crimp hand tools.

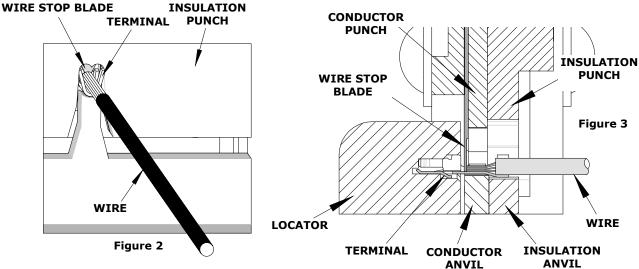
Doc. No: 2002184300 Release Date: 02-14-20 UNCONTROLLED COPY Page 2 of 7

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.
- 2. Insert the terminal into the profile until the terminal is fully seated and stops. Make sure the wire stop blade is fully seated on the terminal behind the conductor grip section.
- 3. Gently pivot the locator closed.
- 4. Bring down the wire stop blade.





- 5. Slide the pre-stripped wire into the terminal, making 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: 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.

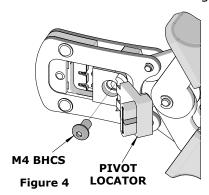
Doc. No: 2002184300 Release Date: 02-14-20 UNCONTROLLED COPY Page 3 of 7

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.



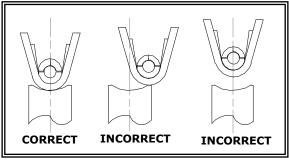


Figure 5

Installation

- 1. Place the locator on the hand tool. Install the M4 BHCS. See Figure 4.
- 2. Tighten the screw just enough to hold the locator. Make sure the locator can still float freely with hand pressure.
- 3. Fully insert the proper terminal into the correct profile slot until the terminal is completely 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.

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 highquality 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 troublefree 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.

Doc. No: 2002184300 Release Date: 02-14-20 **UNCONTROLLED COPY** Page 4 of 7

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.

Doc. No: 2002184300 Release Date: 02-14-20 UNCONTROLLED COPY Page 5 of 7

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:

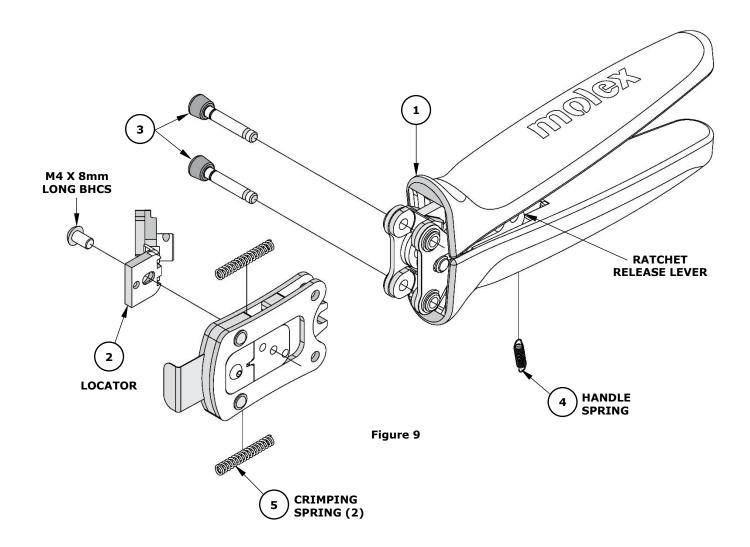
Tool Order No.	Tool Description	Adapter Order No.	Adapter Description	Figure No.
63816-0000	Hand Crimp Frame (Short)	-		6
63816-0050	Hand Crimp Frame (Long)	ı		6
63816-0270	Battery Power Tool (110 V)	63816-0600	Battery Power Crimp Adapter	7
63816-0280	Battery Power Tool (220 V)	63816-0600	Battery Power Crimp Adapter	7
63816-1500	Electric Crimp Machine	63816-0600	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 ELECTRIC POWER CRIMP ADAPTER CRIMP MACHINE				
Figure 6	Figure 7	Figure 8				

Doc. No: 2002184300 Release Date: 02-14-20 **UNCONTROLLED COPY** Page 6 of 7 Revision: A Revision Date: 02-14-20

PARTS LIST

Item	Order Number	Description	Quantity
1	63816-0000	Hand Crimp Frame (Short)	1
2	200218-4375	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: applicationtooling@molex.com

Website: www.molex.com/applicationtooling

Molex is a registered trademark of Molex, LLC in the United States of America and may be registered in other countries; all other trademarks listed herein belong to their respective owners.

Doc. No: 2002184300 Release Date: 02-14-20 **UNCONTROLLED COPY** Page 7 of 7 Revision: A Revision Date: 02-14-20