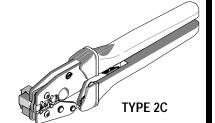


HAND CRIMP TOOL SPECIFICATION SHEET Order No. 63811-5000



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
- This tool is WHMA-IPCA620 Class 2 and RoHS compliant

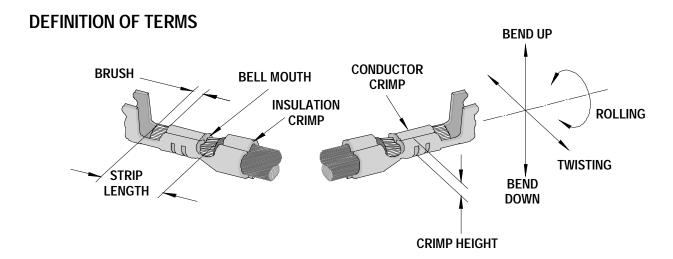
SCOPE

Products: Mini-Fit Jr.™, Mini-Fit HCS™, and Mini-Fit Plus HCS™, Male, and Female Crimp Terminal 16 - 24 AWG.

39-00-0060 39-00-0214 39-00-0059 39-00-0213 39-00-0074 39-00-0406 39-00-0073 39-00-0405 39-00-0109 39-00-0429 39-00-0108 39-00-0410 39-00-0153 39-00-0419 39-00-0154 40-13-0852 39-00-0153 39-00-0425 39-00-0164 39-00-0163 39-00-0428 39-00-0170 39-00-0169 39-00-0428 39-00-0176 39-00-0169 39-00-0440 39-00-0182 39-00-0181 40-13-0851 39-00-0195 39-00-0181 40-13-0851 39-00-0195 39-00-00181 39-00-0124 39-00-0082 39-00-0131 39-00-00130 39-00-0023 39-00-0023 39-00-0024 39-00-0024 39-00-0024 39-00-0024 39-00-00449 39-00-0044 39-00-0045 39-00-00449 39-00-0044 39-00-0045 39-00-00449 39-00-0044 39-00-0043 39-00-00449 39-00-0054 39-00-00431 39-00-00449 39-00-0054 39-00-00431 39-00-00440 39-00-004	Terminal Series No.	Terminal Order No.					re Size	Insulation Diameter Maximum		Strip Length	
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39-00-0127 39-00-0126 39-00-0437						1					
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Doc No: ATS-638115000 Release Date: 04-03-06 UNCONTROLLED COPY Page 1 of 8

Terminal Series No.		Terminal	Order No.		Wire Size		Insulation Diameter Maximum		Strip Length		
	Loose	Piece	₽ F	AWG	mm²	mm	ln.	mm	ln.		
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30470	30490-2012		30490-2002	30490-9902	10-24	0.00-0.20	3.10			.110130	
44476	44476-3112	44476-3212	44476-3111	44476-3211	16	1.30	3.10	.122	3.00-3.50	.118138	
77770	44476-1112	44476-1212	44476-1111	44476-1211	18-20	0.80-0.50	3.10	. 122	3.00-3.30	.110130	
	44478-3112	44478-3212	44478-3111	44478-3211					3.00-3.50		
	44478-3122	44478-3222	44478-3121	44478-3221	16	1.30					
44478	44478-9904	44478-9908	44478-9903	44478-9907			3.10	.122		.118138	
44470	44478-1112	44478-1212	44478-1111	44478-1211		0.80-0.50	3.10	.122		.110130	
	44478-1122	44478-1222	44478-1121	44478-1221	18-20						
	44478-9902	44478-9906	44478-9901	44478-9905							
	44485-3212	44485-3412	44485-3211	44485-3411	16	1.30		.122	3.00-3.50		
44485	44485-3312		44485-3311		10	1.50	3.10			.118138	
11100	44485-1212	44485-1412	44485-1211	44485-1411	18-24	0.80-0.20	3.10			.110 .130	
	44485-1312		44485-1311								
45750	45750-3112	45750-3212	45750-3111	45750-3211	16	1.30	3.10	.122	3.00-3.50	.118138	
43730	45750-1112	45750-1212	45750-1111	45750-1211	18-20	0.80-0.50	3.10	.122		.110 .130	
46012	46012-3142	46012-3242	46012-3141	46012-3241	16	1.30	3.10	.122	3.00-3.50	.118138	
70012	46012-1142	46012-1242	46012-1141	46012-1241	18-20	0.80-0.50	5.10	. 122		.110130	
46018	46018-3542		46018-3541		16	1.30	3.10	.122	3.00-3.50	.118138	
40010	46018-1542		46018-1541		18-20	0.80-0.50	3.10	.122	3.00-3.30	.110130	
	46083-3112	46083-3122	46083-3111	46083-3121	16	1.30	3.10	.122	3.00-3.50		
46083	46083-3212	46083-3222	46083-3211	46083-3221	10	1.30				.118138	
	46083-1112	46083-1122	46083-1111	46083-1121	18-20	0.80-0.50				.110130	
	46083-1212	46083-2222	46083-1211	46083-2221	10-20	0.00-0.50					
46098	46098-3541		46098-3542		16	1.30	3.10	.122	3.00-3.50	.118138	
40070	46098-1541		46098-1542		18-20	0.80-0.50	3.10	.122	3.00-3.30	.110130	
See Conditions on page 3.											



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:

After crimping, the conductor profiles should measure the following (See note on page 4).

	Wire Size		Conductor Crimp			Insulation Crimp				Pull Force		•	Profile		
Terminal Series No.			Height (Ref.)		Width (Ref.)		Height (Ref.)		Width (Ref.)		Minimum				
	AWG	mm ²	mm	ln.	mm	ln.	mm	ln.	mm	ln.	N	Lb.	Α	В	С
	16	1.30	1.14-1.24	.045049	1.91	.075	2.95	.116	2.75	.108	68.5	15.40	Χ		
	18	0.80	0.97-1.07	.038042	1.61	.063	2.73	.107	2.55	.100	88.0	19.80		Χ	
5556	20	0.50	0.79-0.89	.031035	1.61	.063	2.51	.099	2.35	.092	58.7	13.20			Χ
	22	0.35	0.79-0.89	.031035	1.61	.063	2.51	.099	2.35	.092	39.1	8.80			Χ
	24	0.20	0.79-0.89	.031035	1.61	.063	2.51	.099	2.33	.091	29.3	6.60			Х
	16	1.30	1.14-1.24	.045049	1.91	.075	2.95	.116	2.75	.108	68.5	15.40	Χ		
	18	0.80	0.97-1.07	.038042	1.61	.063	2.73	.107	2.55	.100	88.0	19.80		Χ	
5558	20	0.50	0.79-0.89	.031035	1.61	.063	2.51	.099	2.35	.092	58.7	13.20			Χ
	22	0.35	0.79-0.89	.031035	1.61	.063	2.51	.099	2.35	.092	39.1	8.80			Χ
	24	0.20	0.79-0.89	.031035	1.61	.063	2.51	.099	2.33	.091	29.3	6.60			Χ
	18	0.80	0.97-1.07	.038042	1.61	.063	2.73	.107	2.55	.100	88.0	19.80		Χ	
30490	20	0.50	0.79-0.89	.031035	1.61	.063	2.51	.099	2.35	.092	58.7	13.20			Χ
30470	22	0.35	0.79-0.89	.031035	1.61	.063	2.51	.099	2.35	.092	39.1	8.80			Χ
	24	0.20	0.79-0.89	.031035	1.61	.063	2.51	.099	2.33	.091	29.3	6.60			Χ
	16	1.30	1.14-1.24	.045049	1.91	.075	2.95	.116	2.75	.108	68.5	15.40	Χ		
44476	18	0.80	0.97-1.07	.038042	1.61	.063	2.73	.107	2.55	.100	88.0	19.80		Χ	
	20	0.50	0.79-0.89	.031035	1.61	.063	2.51	.099	2.35	.092	58.7	13.20			Χ
	16	1.30	1.14-1.24	.045049	1.91	.075	2.95	.116	2.75	.108	68.5	15.40	Χ		
44478	18	0.80	0.97-1.07	.038042	1.61	.063	2.73	.107	2.55	.100	88.0	19.80		Χ	
	20	0.50	0.79-0.89	.031035	1.61	.063	2.51	.099	2.35	.092	58.7	13.20			Χ
	16	1.30	1.14-1.24	.045049	1.91	.075	2.95	.116	2.75	.108	68.5	15.40	Χ		
	18	0.80	0.97-1.07	.038042	1.61	.063	2.73	.107	2.55	.100	88.0	19.80		Χ	
44485	20	0.50	0.79-0.89	.031035	1.61	.063	2.51	.099	2.35	.092	58.7	13.20			Χ
	22	0.35	0.79-0.89	.031035	1.61	.063	2.51	.099	2.35	.092	39.1	8.80			Χ
	24	0.20	0.79-0.89	.031035	1.61	.063	2.51	.099	2.33	.091	29.3	6.60			Χ
	16	1.30	1.14-1.24	.045049	1.91	.075	2.95	.116	2.75	.108	68.5	15.40	Χ		
45750	18	0.80	0.97-1.07	.038042	1.61	.063	2.73	.107	2.55	.100	68.5	15.40		Χ	
	20	0.50	0.79-0.89	.031035	1.61	.063	2.51	.099	2.35	.092	58.7	13.20			Χ
	16	1.30	1.14-1.24	.045049	1.91	.075	2.95	.116	2.75	.108	68.5	15.40	Χ		
46012	18	0.80	0.97-1.07	.038042	1.61	.063	2.73	.107	2.55	.100	68.5	15.40		Χ	
	20	0.50	0.79-0.89	.031035	1.61	.063	2.51	.099	2.35	.092	58.7	13.20			Χ
	16	1.30	1.14-1.24	.045049	1.91	.075	2.95	.116	2.75	.108	68.5	15.40	Χ		
46018	18	0.80	0.97-1.07	.038042	1.61	.063	2.73	.107	2.55	.100	68.5	15.40		Χ	
	20		0.79-0.89	.031035	1.61	.063	2.51	.099		.092		13.20			Χ
46083	16	1.30	1.14-1.24	.045049	1.91	.075	2.95	.116	2.75	.108	68.5	15.40	Χ		
	18	0.80	0.97-1.07	.038042	1.61	.063	2.73	.107	2.55	.100	68.5	15.40	,,	Χ	1
	20	0.50	0.79-0.89	.031035	1.61	.063	2.51	.099	2.35	.092	58.7	13.20		,	Х
	16	1.30	1.14-1.24	.045049	1.91	.075	2.95	.116	2.75	.108	68.5	15.40	Χ		
46098	18	0.80	0.97-1.07	.038042	1.61	.063	2.73	.107	2.55	.100	68.5	15.40		Χ	<u> </u>
10070	20	0.50	0.79-0.89	.030042	1.61	.063	2.73	.099	2.35	.092	58.7	13.20		^	Χ
		0.50	0.17-0.07	.001000	1.01	.000	2.01	.077	2.00	.0 /2	50.7	10.20		l	

To Achieve IPC-A-620 Class 2 Crimps, the following over-all wire insulation diameter ranges are recommended:

Profile A: 1.90-3.10mm (.075-.122 inch) Profile B: 1.68-3.10mm (.066-.122 inch) Profile C: 1.40-2.54mm (.055-.100 inch)

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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.

Crimping Terminals

- 1. Select the desired terminal listed in the preceding charts.
- 2. Swing the terminal locator away from the crimp tool shown in Figure 2. Some terminals with large insulation grips may interfere with the crimp tooling when swinging the locator into position. The terminal must then be loaded into the locator in the closed/crimp position.

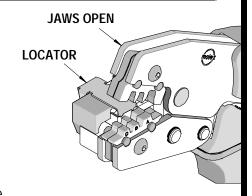
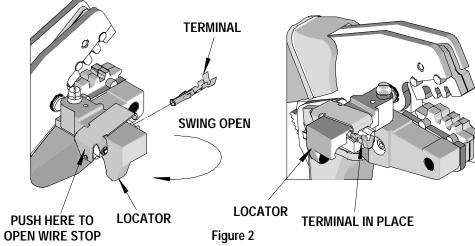
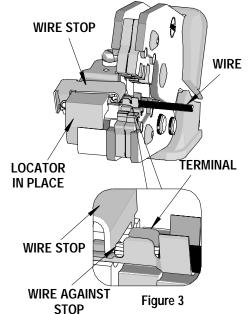


Figure 1



- 3. When using the locator, press down on the wire stop on the locator as shown in Figure 2. Insert the proper terminal into the proper nest opening. Make sure when choosing the nest opening, it will correspond with the A, B, or C profile on the hand tool.
- 4. Return the locator to its original position.
- 5. Insert the proper wire over the terminal. Some large O.D. wires may need to be placed into the terminal before closing the tool. Gently touch the wire stop with the end of the wire. See Figure 3.
- 6. Compress the terminal by squeezing the tool handles until the ratchet mechanism cycle has been completed. Release handles to open the jaws.

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



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- 7. Remove the crimped terminal from the terminal locator by pressing down on the wire stop and gently pulling on the wire. The terminal locator can be in either position.
- 8. Visually inspect the crimped terminal for proper crimp location.

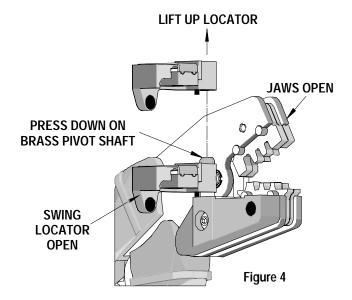
Note:

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, 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 on page 2.

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. Swing the existing locator open and away from the hand tool.
- 3. Firmly press down on the brass pivot shaft with your thumb, while pulling the locator up. Slip the locator off the top of the brass pivot shaft. See Figure 4.
- 4. Replace it with the new locator by putting over the brass pivot shaft and snapping it into place.

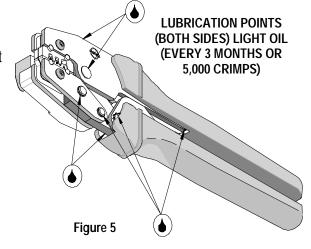


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Maintenance

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. The tool was engineered for durability but like any fine piece of 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, shown in Figure 5, every 5,000 crimps or 3 months, will significantly enhance the tool life.
- 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.



PRELOAD

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 the ratchet release lever. See Figure 6.

How to Adjust Tool Preload (See Figure 6)

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:

- **CHECK POINT** 25.4MM SETTING WHEEL **ECCENTRIC** AXLE RATCHET **HANDLE RELEASE LEVER GRIP REMOVED WRENCH SET** Figure 6 (SOLD LOCKING **HANDLE** SEPERATELY) **SCREW GRIP**
- 1. Remove or fold back the handle grip from the handle to expose the eccentric axle and setting wheel.
- 2. Remove the locking screw with a 2mm hex wrench. The wrench set (63810-0101), is not supplied. It is sold separately from the hand tool.
- 3. Turn the eccentric axle and setting wheel with the wrench or pliers Counter-clockwise (CCW) to increase handle force.
- 4. Replace the locking screw, aligning the nearest notch in the setting wheel to locking screw.
- 5. Replace the handle grip.
- 6. Check the crimp specifications or conduct a pull test after tool handle preload force is adjusted.

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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

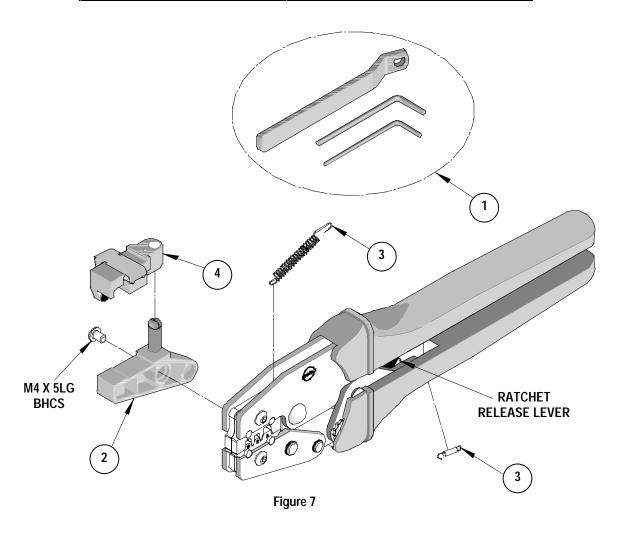
Molex does not certify or re-certify commercial grade hand tools but rather supplies the following guidelines for customers to re-certify hand tools.

- 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.

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PARTS LIST

Item Number	Order Number	Description	Quantity		
REF 63811-5000		Hand Crimp Tool	Figure 7		
1	63810-0101	Wrench Set (Not included)	0		
2	63810-0102	Locator Base Assembly	1		
3	63810-0103	Repair Kit (Not included)	0		
4	63811-5075	Locator	1		



Americas Headquarters Lisle, Illinois 60532 U.S.A. 1-800-78MOLEX amerinfo@molex.com Far East North Headquarters Yamato, Kanagawa, Japan 81-462-65-2324 feninfo@molex.com

Far East South Headquarters Jurong, Singapore 65-6-268-6868 fesinfo@molex.com European Headquarters Munich, Germany 49-89-413092-0 eurinfo@molex.com Corporate Headquarters 2222 Wellington Ct. Lisle, IL 60532 U.S.A. 630-969-4550 Fax: 630-969-1352

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