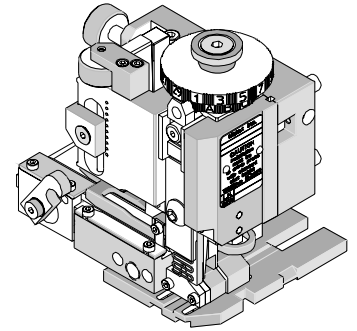




## Mini-Mac Applicator Specification Sheet Order No. 63892-8000



### FEATURES

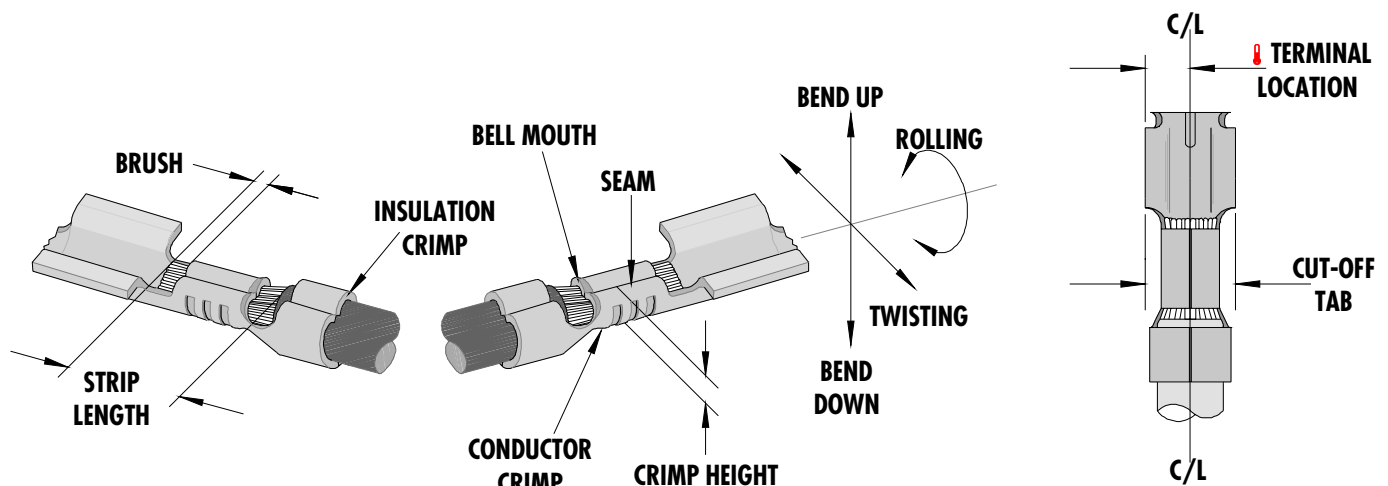
- Directly adapts to most automatic wire processing machines
- Applicator designed to industry standard mounting and shut height 135.80mm (5.346")
- Quick set-up time; plus the crimp height, track and feed adjustments can be set without removing the applicator from the press
- Fine adjustment allows users to achieve target with little effort by adjusting in increments of .015mm (.0006") for conductor crimp height and .063mm (.0025") for insulation height
- Independent adjustment rings allow users to quickly adjust the conductor or insulation crimp height without affecting each other.

### SCOPE

Products: 3.18mm (.125") Diameter HCS-125, Pin and Socket Male and Female Crimp Terminal, 16-18 AWG.

| Terminal Series No. | Terminal Order No. |            | Wire Size                |                 | Insulation Diameter |           | Strip Length |           |
|---------------------|--------------------|------------|--------------------------|-----------------|---------------------|-----------|--------------|-----------|
|                     |                    |            | AWG                      | mm <sup>2</sup> | mm                  | In.       | mm           | In.       |
| 2046                | 18-12-2221         |            | 16-18 and (1) 18+ (1) 22 | 1.30-0.80       | 2.75-3.05           | .108-.120 | 4.06-5.59    | .160-.220 |
| 2047                | 18-12-1221         |            | 16-18 and (1) 18+ (1) 22 | 1.30-0.80       | 2.75-3.05           | .108-.120 | 4.06-5.59    | .160-.220 |
| 8946                | 18-12-2402         |            | 16-18 and (1) 18+ (1) 22 | 1.30-0.80       | 2.75-3.05           | .108-.120 | 4.06-5.59    | .160-.220 |
|                     | 18-12-2404         | 40-07-1303 |                          |                 |                     |           |              |           |
| 8947                | 18-12-1404         | 40-07-1304 | 16-18 and (1) 18+ (1) 22 | 1.30-0.80       | 2.75-3.05           | .108-.120 | 4.06-5.59    | .160-.220 |

### DEFINITION OF TERMS



Terminal is to be centrally located between the two (2) cut-off tab edges by one half of the total cut-off tab tolerance. This illustration is a generic terminal representation and not an exact image of any terminal listed in the scope.

**CRIMP SPECIFICATIONS**

| Terminal Series No. | Bell mouth |     | 🔥 Cut-off Tab |           | Conductor Brush |     |
|---------------------|------------|-----|---------------|-----------|-----------------|-----|
|                     | mm         | In. | mm            | In.       | mm              | In. |
| 2046                |            |     | 5.00-5.16     | .197-.203 |                 |     |
| 2047                |            |     | 5.00-5.16     | .197-.203 |                 |     |
| 8946                |            |     | 5.00-5.16     | .197-.203 |                 |     |
| 8947                |            |     | 5.00-5.16     | .197-.203 |                 |     |

| Terminal Series No. | Bend up | Bend down | Twist | Roll | Punch Width (Ref) |      |            |      | Seam                                                                |
|---------------------|---------|-----------|-------|------|-------------------|------|------------|------|---------------------------------------------------------------------|
|                     | Degree  | Degree    | mm    | In.  | Conductor         |      | Insulation |      |                                                                     |
|                     |         |           |       |      | mm                | In.  | mm         | In.  |                                                                     |
| 2046                |         |           |       |      | 2.30              | .091 | 3.87       | .152 | Seam shall not be open and no wire allowed out of the crimping area |
| 2047                |         |           |       |      | 2.30              | .091 | 3.87       | .152 |                                                                     |
| 8946                |         |           |       |      | 2.30              | .091 | 3.87       | .152 |                                                                     |
| 8947                |         |           |       |      | 2.30              | .091 | 3.87       | .152 |                                                                     |

**NOTE:** Some of the specifications in these charts above are intentionally left blank due to the fact that the information does not currently exist.

After crimping, the conductor profile should measure the following.

| Terminal Series No.                                                                                      | Wire Size           |                 | Conductor    |           |                   |     | Pull Force Minimum |      |
|----------------------------------------------------------------------------------------------------------|---------------------|-----------------|--------------|-----------|-------------------|-----|--------------------|------|
|                                                                                                          | AWG                 | mm <sup>2</sup> | Crimp Height |           | Crimp width (REF) |     | N                  | Lb.  |
|                                                                                                          |                     |                 | mm           | In.       | mm                | In. |                    |      |
| 2046                                                                                                     | 16                  | 1.30            | 1.58-1.66    | .062-.066 |                   |     | 177.9              | 40.0 |
|                                                                                                          | 18                  | 0.80            | 1.52-1.60    | .060-.063 |                   |     | 115.7              | 26.0 |
|                                                                                                          | 🔥 🔥 (1) 18 + (1) 22 | 0.80+0.35       | 1.52-1.58    | .060-.062 |                   |     | 35.6               | 8.0  |
| 2047                                                                                                     | 16                  | 1.30            | 1.58-1.66    | .062-.066 |                   |     | 177.9              | 40.0 |
|                                                                                                          | 18                  | 0.80            | 1.52-1.60    | .060-.063 |                   |     | 115.7              | 26.0 |
|                                                                                                          | 🔥 🔥 (1) 18 + (1) 22 | 0.80+0.35       | 1.52-1.58    | .060-.062 |                   |     | 35.6               | 8.0  |
| 8946                                                                                                     | 16                  | 1.30            | 1.58-1.66    | .062-.066 |                   |     | 177.9              | 40.0 |
|                                                                                                          | 18                  | 0.80            | 1.52-1.60    | .060-.063 |                   |     | 115.7              | 26.0 |
|                                                                                                          | 🔥 🔥 (1) 18 + (1) 22 | 0.80+0.35       | 1.52-1.58    | .060-.062 |                   |     | 35.6               | 8.0  |
| 8947                                                                                                     | 16                  | 1.30            | 1.58-1.66    | .062-.066 |                   |     | 177.9              | 40.0 |
|                                                                                                          | 18                  | 0.80            | 1.52-1.60    | .060-.063 |                   |     | 115.7              | 26.0 |
|                                                                                                          | 🔥 🔥 (1) 18 + (1) 22 | 0.80+0.35       | 1.52-1.58    | .060-.062 |                   |     | 35.6               | 8.0  |
| 🔥 🔥 <b>For Double Application:</b> Position smaller wire size on the bottom and larger wire size on top. |                     |                 |              |           |                   |     |                    |      |

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

**PARTS LIST**

| <b>Mini-Mac Applicator 63892-8000</b>                                        |                 |                        |                                |                 |
|------------------------------------------------------------------------------|-----------------|------------------------|--------------------------------|-----------------|
| <b>Item</b>                                                                  | <b>Order No</b> | <b>Engineering No.</b> | <b>Description</b>             | <b>Quantity</b> |
| <b>Perishable Tooling</b>                                                    |                 |                        |                                |                 |
|                                                                              | 63892-8070      | 63892-8070             | Tool Kit (All "Y" Items)       | REF             |
| 1                                                                            | 11-18-4979      | 60805A106              | Conductor Punch                | 1 Y             |
| 2                                                                            | 11-18-4980      | 60805A107              | Conductor Anvil                | 1 Y             |
| 3                                                                            | 11-18-4981      | 60805A108              | Insulation Punch               | 1 Y             |
| 4                                                                            | 11-18-4982      | 60805A109              | Insulation Anvil               | 1 Y             |
| 5                                                                            | 11-18-4977      | 60805A104              | Cut-Off Punch                  | 1 Y             |
| 6                                                                            | 11-18-4983      | 60805A111              | Rear Cut-off Die Blade         | 1 Y             |
| <b>Other Components</b>                                                      |                 |                        |                                |                 |
| 7                                                                            | 11-18-4810      | 60800A106              | Rear Block                     | 1               |
| 8                                                                            | 11-18-4811      | 60800A107              | Compression Spring             | 1               |
| 9                                                                            | 11-18-4815      | 60800A111              | Guide Plate                    | 1               |
| 10                                                                           | 11-18-4816      | 60800A112              | Terminal Drag Plate            | 1               |
| 11                                                                           | 11-18-4818      | 60800A114              | Mounting Block                 | 1               |
| 12                                                                           | 11-18-4829      | 60800A125              | Wire Stop                      | 1               |
| 13                                                                           | 11-18-4848      | 60800A123              | Spring Retainer                | 1               |
| 14                                                                           | 11-18-4849      | 60800A124              | Wire Hold Down Spring          | 1               |
| 15                                                                           | 11-18-4894      | 60800A129              | Knockout Spring                | 1               |
| 16                                                                           | 11-18-4984      | 60805A112              | Plunger                        | 1               |
| 17                                                                           | 11-18-4985      | 60805A115              | Tooling Washer                 | 1               |
| 18                                                                           | 11-18-5005      | 60800D112              | Hold Down Block                | 1               |
| 19                                                                           | 11-18-5006      | 60800D113              | Spring Retainer                | 1               |
| 20                                                                           | 11-18-5007      | 60800D114              | Compression Spring (Hold Down) | 1               |
| 21                                                                           | 11-18-5014      | 60805A121              | Hold Down Plunger              | 1               |
| 22                                                                           | 11-18-5015      | 60805A122              | Front Cover                    | 1               |
| 23                                                                           | 63803-5111      | 63803-5111             | Conductor Bushing              | 1               |
| <b>Frame</b>                                                                 |                 |                        |                                |                 |
| 24                                                                           | 63801-3201      | 63801-3201             | Top                            | 1               |
| 25                                                                           | 63801-3282      | 63801-3282             | Base                           | 1               |
| 26                                                                           | 63801-6550      | 63801-6550             | Track                          | 1               |
| <b>Hardware</b>                                                              |                 |                        |                                |                 |
| 27                                                                           | N/A             | N/A                    | M3 by 6 Long SHCS              | 6**             |
| 28                                                                           | N/A             | N/A                    | M3 by 25 Long SHCS             | 2**             |
| 29                                                                           | N/A             | N/A                    | M4 by 6 Long BHCS              | 2**             |
| 30                                                                           | N/A             | N/A                    | M4 by 10 Long BHCS             | 4**             |
| 31                                                                           | N/A             | N/A                    | M4 by 18 Long SHCS             | 2**             |
| 32                                                                           | N/A             | N/A                    | M5 by 10 Long SHCS             | 1**             |
| 33                                                                           | N/A             | N/A                    | M8 by 20 Long BHCS             | 1**             |
| ** Available from an industrial supply company such as MSC (1-800-645-7270). |                 |                        |                                |                 |

# Assembly Drawing

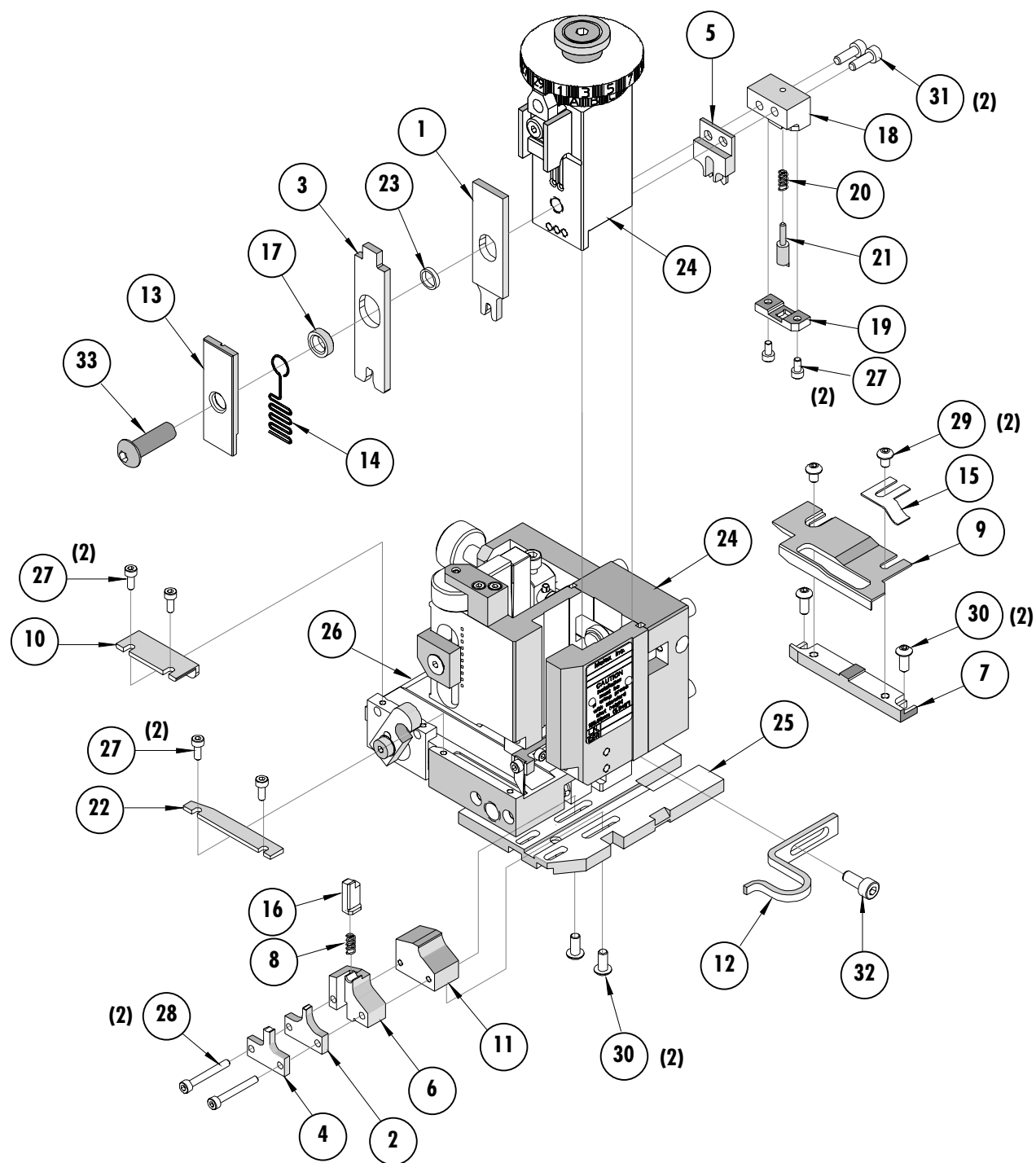


Figure 1

## NOTES

1. Molex recommends an extra perishable tooling kit be maintained at your facility.
2. Verify tooling alignment by manually cycling the press and applicator before crimping under power. Check that all screws are tight.
3. Slugs, terminals, dirt, and oil should be kept clear of work area.
4. Wear safety glasses at all times.
5. For recommended maintenance refer to the Mini-Mac Manual.

**CAUTION:** This applicator should only be used in a press with a shut height of 135.80mm (5.346"). Tooling damage could result at a lower setting.

**CAUTION:** To prevent injury, never operate this applicator without the guards supplied with the press or wire-processing machine in place. Reference the press or wire processing manufacturer's instruction manual.

**CAUTION:** Molex crimp specifications are valid only when used with Molex terminals, applicators and tooling.

## Contact Information

For more information on Molex application tooling please contact Molex at 1-800-786-6539.

### 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

Visit our Web site at <http://www.molex.com>

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



Тел: +7 (812) 336 43 04 (многоканальный)

Email: [org@lifeelectronics.ru](mailto:org@lifeelectronics.ru)

[www.lifeelectronics.ru](http://www.lifeelectronics.ru)