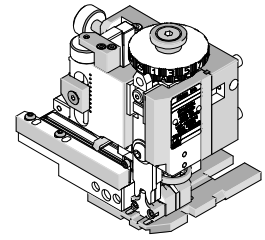




**Mini-Mac  
Applicator**

**Application Tooling  
Specification Sheet**



**Order No. 63882-1200**

**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.

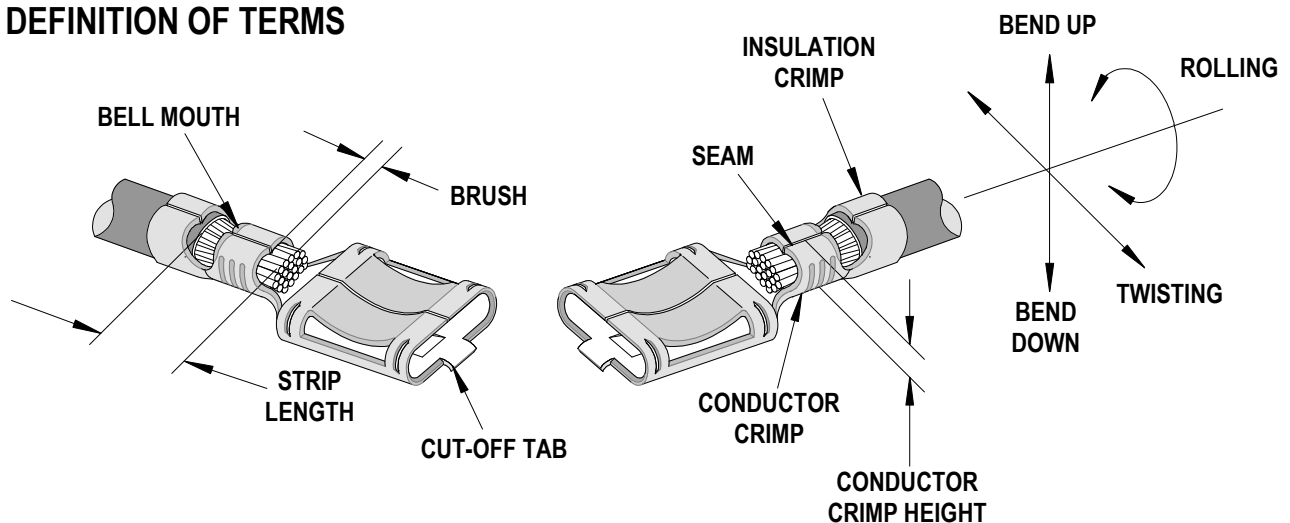
**SCOPE**

Products: Flat Blade Crimp Terminal 14-18 AWG

Terminal Series No.	Terminal Order No.	Wire Size		Insulation Diameter		Strip Length	
		AWG	mm <sup>2</sup>	mm	In.	mm	In.
41422	40-02-1601	14 and 18 Side by Side	2.00 and 0.80	3.03 and 4.52	.106 and .133	5.08-5.84	.200-.230
	41422-4001	14 and 18 Side by Side	2.00 and 0.80	3.03 and 4.52	.106 and .133	5.08-5.84	.200-.230

For 10 and 13 AWG single wire crimp applications 63882-1000 Applicator is recommended.

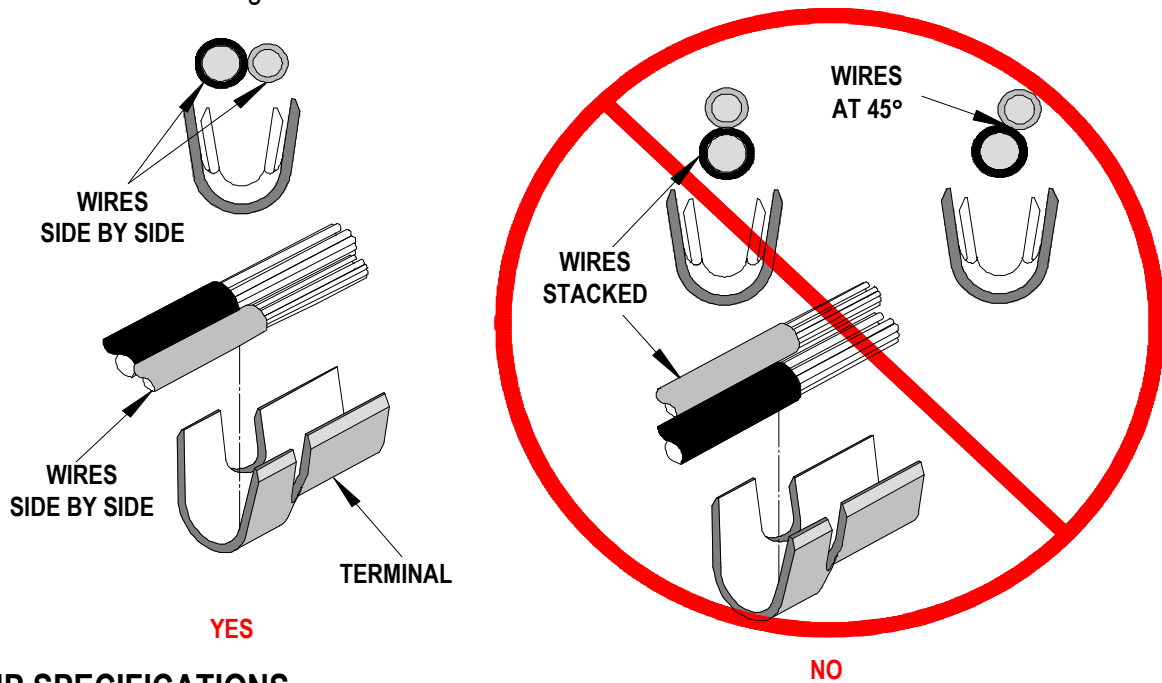
**DEFINITION OF TERMS**



The above terminal drawing is a generic terminal representation. It is not an image of a terminal listed in the scope.

### Wire Feeding Orientation

This Applicator and crimp was developed for (1) 14 AWG and (1) 18 AWG UL 1015 wires in a side-by-side orientation. See the following illustrations below.



### CRIMP SPECIFICATIONS

Terminal Series No.	Bell mouth		Cut-off Tab Max.		Conductor Brush	
	mm	In.	mm	In.	mm	In.
41422			0.25	0.10		

Terminal Series No.	Bend up	Bend down	Twist	Roll	Punch Width (Ref)				Seam Seam shall not be open and no wire allowed out of the crimping area
	Degree		Degree		Conductor		Insulation		
					mm	In.	mm	In.	
41422					3.80	.150	6.12	.241	

**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 Crimp Height		Pull Force Minimum	
	AWG	mm <sup>2</sup>	mm	In.	N	Lb.
41422	14 and 18 Side by Side	2.00 and 0.80	2.23-2.33	.088-.092	88.9	20.0

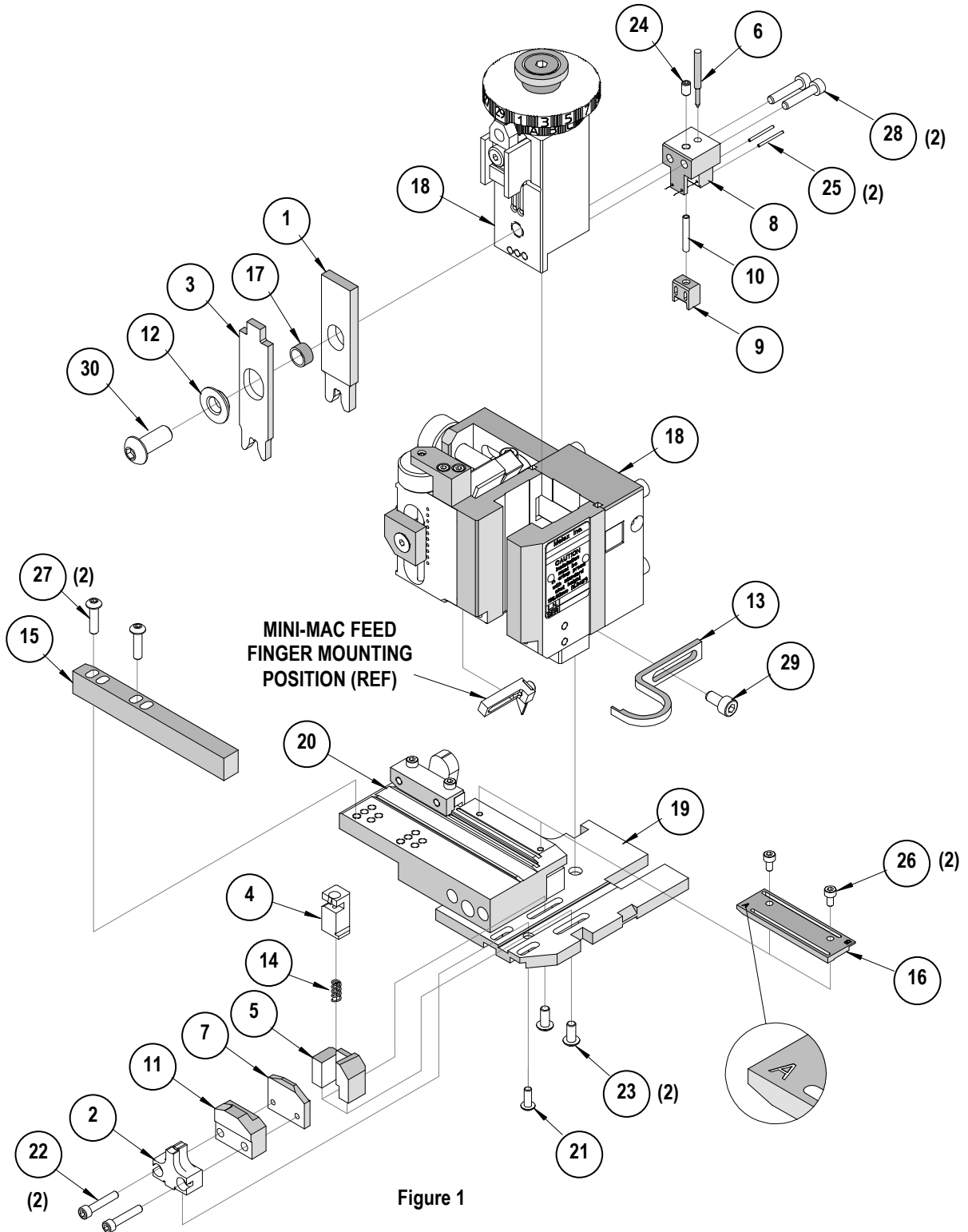
#### Tool Qualification Notes:

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

**PARTS LIST**

<b>Mini-Mac Applicator 63882-1200</b>				
<b>Item</b>	<b>Order No</b>	<b>Engineering No.</b>	<b>Description</b>	<b>Quantity</b>
<b>Perishable Tooling</b>				
	63882-1270	63882-1270	Tool Kit (All "Y" Items)	REF.
1	11-18-4448	60739A101	Conductor Punch	1 Y
2	11-18-5446	60739C102	Combination Anvil	1 Y
3	11-18-5447	60739C103	Insulation Punch	1 Y
4	11-18-4451	60739A104	Cut-Off Plunger	1 Y
5	11-18-4452	60739A105	Plunger Retainer	1 Y
6	11-18-4454	60739A107	Pilot Pin	1 Y
7	11-18-4457	60739A110	Cut-off Die Blade	1 Y
<b>Other Components</b>				
8	11-18-4453	60739A106	Rear Plunger Striker	1
9	11-18-4455	60739A108	Terminal Hold Down	1
10	11-18-4456	60739A109	Hold Down Spring	1
11	11-18-4458	60739A111	Spacer	1
12	11-18-4467	60739A117	Tooling Washer	1
13	11-18-5012	60804A123	Wire Stop	1
14	11-24-1067	4996-4	Cut-Off Plunger Spring	1
15	63801-4510	63801-4510	Front Cover	1
16	63801-4558	63801-4558	Rear Cover	1
17	63803-5101	63803-5101	Conductor Bushing	1
<b>Frame</b>				
18	63801-3201	63801-3201	Top	1
19	63801-3282	63801-3282	Base	1
20	63801-6650	63801-6650	Track	1
<b>Hardware</b>				
21	N/A	N/A	#6-32 by 3/8" Long BHCS	1**
22	N/A	N/A	#6-32 by 3/4" Long SHCS	2**
23	N/A	N/A	#8-32 by 3/8" Long BHCS	2**
24	N/A	N/A	#8-32 by 1/4" Long SSS (Flat Point)	1**
25	N/A	N/A	3/64 by 5/8" Long Spirol Pin	2**
26	N/A	N/A	M3 by 6 Long SHCS	2**
27	N/A	N/A	M4 by 16 Long BHCS	2**
28	N/A	N/A	M4 by 22 Long SHCS	2**
29	N/A	N/A	M5 by 8 Long SHCS	1**
30	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



## 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 135.8 mm (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.

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