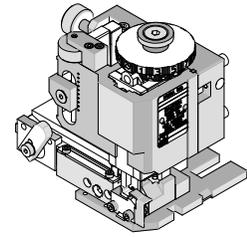




**FineAdjust
Applicator**

**Application Tooling
Specification Sheet**



Order No. 63901-1500

FEATURES

- Directly adapts to most automatic wire processing machines
- Quick punch removal with the push of a button for fast and easy tooling change
- 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

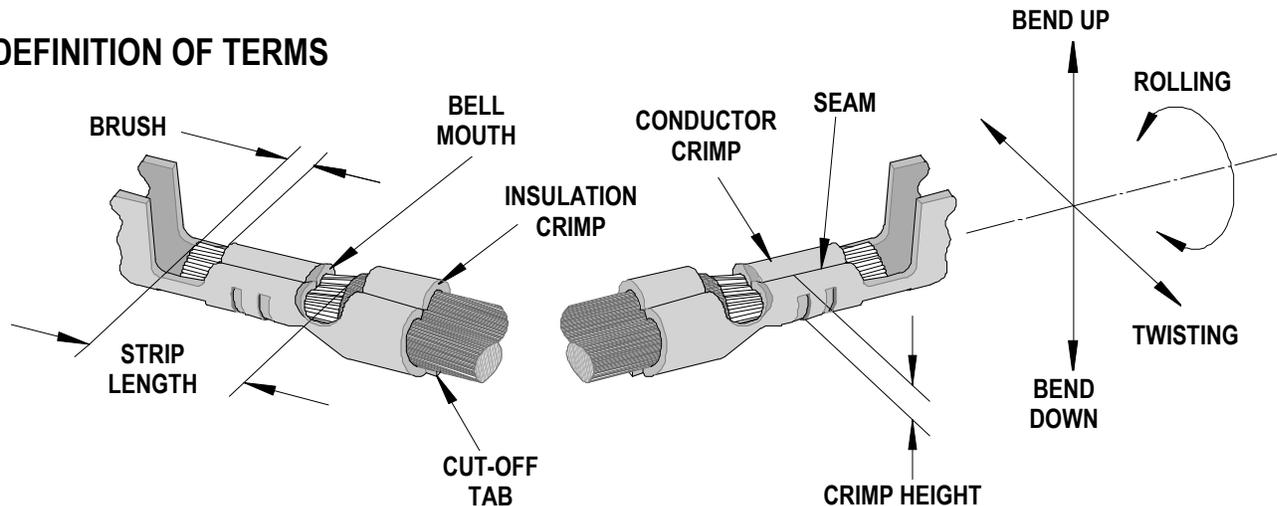
SCOPE

Products: 1.50mm (.059") Pitch CLIK-Mate™ Wire-to-Board Crimp Terminals, 24-28 AWG and 0.2 and 0.08mm.

Terminal Series No.	Terminal Order No.	Wire Size		Insulation Diameter				Strip Length	
				IPC/WHMA-A620 (1)		Terminal (2)			
		AWG	mm ²	mm	In.	mm	In.	mm	In.
502579	502579-0000	24	--	0.90 - 1.2	0.035 - 0.047	0.8 - 1.2	.031-.047	1.50 -1.90	.059 -0.75
		26	--	0.90 - 1.2	0.035 - 0.047	0.8 - 1.2	.031-.047		
		28	--	0.90 - 1.2	0.035 - 0.047	0.8 - 1.2	.031-.047		
		--	0.2	0.90 - 1.2	0.035 - 0.047	0.8 - 1.2	.031-.047		
		--	0.08	0.90 - 1.2	0.035 - 0.047	0.8 - 1.2	.031-.047		

(1) To achieve optimum IPC-A620 insulation crimps, use this insulation OD range.
 (2) Overall insulation OD specification for terminal.

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		Cut-off Tab Maximum		Conductor Brush	
	mm	In.	mm	In.	mm	In.
502579	0.10-0.40	.004 -.016	0.10	.004	0.10 - 0.60	.004 -.024

Terminal Series No.	Bend up	Bend down	Twist	Roll	Punch Width mm (Ref)				Seam Seam shall not be open and no wire allowed out of the crimping area
	Degree (Max)		Degree (Max)		Conductor		Insulation		
	mm	In	mm	In	mm	In	mm	In	
502579	3	3	3	8	1.00	.039	1.10	.043	

After crimping, the conductor profile should measure the following.

Terminal Series No.	Wire Size		Conductor Crimp				♦ Pull Force Minimum	
			Crimp Height		Crimp Width (Ref.)			
	AWG	mm²	mm	In.	mm	In.	N	Lb.
502579	24	--	0.60-0.65	.024-.026	1.00	0.039	29.4	6.61
	26	--	0.59-0.64	.023-.025	1.00	0.039	19.6	4.41
	♦ 28	--	0.56-0.61	.022-.024	1.00	0.039	9.8	2.20
	--	0.2	0.60-0.65	.024-.026	1.00	0.039	29.4	6.61
	--	♦ 0.08	0.56-0.61	.022-.024	1.00	0.039	9.8	2.20

♦ **Note:** To achieve optimum pull force a conductor crimp height of 0.54-0.59mm is recommended for 28awg (0.08mm) wire. This will allow a minimum Cpk value of 1.67.
This lower crimp height range produces a mechanically sound crimp. However, electrical performance may vary..

Terminal Series No.	Wire Size		Insulation			
			Crimp Height (Maximum)		Crimp Width (Ref.)	
	AWG	mm²	mm	In.	mm	In.
502579	24	--	1.65	.065	1.10	0.043
	26	--	1.55	.061	1.10	0.043
	28	--	1.45	.057	1.10	0.043
	---	0.2	1.65	.057	1.10	0.043
	---	0.08	1.35	.053	1.10	0.043

■ 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

FineAdjust Applicator 63901-1500				
Item	Order No	Engineering No.	Description	Quantity
Perishable Tooling				
	63901-1570	63901-1570	Tool Kit (All "Y" Items)	REF
1	63444-1007	63444-1007	Conductor Punch	1 Y
2	63445-1012	63445-1012	Conductor Anvil	1 Y
3	63446-1107	63446-1107	Insulation Punch	1 Y
4	63445-1102	63445-1102	Insulation Anvil	1 Y
5	63443-0002	63443-0002	Front Cut-Off Plunger	1 Y
6	63443-0012	63443-0012	Front Plunger Retainer	1 Y
Other Components				
7	11-18-4083	60707-8	Feed Guide	1
8	11-24-1067	4996-4	Cut-Off Plunger Spring	1
9	63443-0009	63443-0009	Front Scrap Chute	1
10	63443-0024	63443-0024	Key	1
11	63443-0090	63443-0090	Wire Stop	1
12	63443-1717	63443-1717	18.70mm Height Spacer	1
13	63443-2201	63443-2201	1.00mm Coarse Spacer	1
14	63443-2216	63443-2216	16.00mm Coarse Spacer	1
15	63443-2304	63443-2304	3.20mm Fine Spacer	1
16	63443-2801	63443-2801	Front Plunger Striker	1
17	63443-2906	63443-2906	Wire Hold Down Plunger	1
18	63443-6111	63443-6111	Rear Cover	1
19	63600-0021	63600-0021	Wire Hold Down Spring	1
Frame				
20	63800-4901	63800-4901	Top	1
21	63801-3281	63801-3281	Base	1
22	63801-4650	63801-4650	Track	1
Hardware				
23	N/A	N/A	M3 by 6 Long SHCS	2**
24	N/A	N/A	M3 by 6 Long FHCS	1**
25	N/A	N/A	M4 by 6 Long SHCS	2**
26	N/A	N/A	M4 by 12 Long BHCS	2**
27	N/A	N/A	M4 by 50 Long SHCS	2**
28	N/A	N/A	M5 by 12 Lg SHCS	1**
29	N/A	N/A	#10-32 by 3/8" Long Flat Point SSS	1**
30	N/A	N/A	#10-32 Hex Jam Nut	1**

** Available from an industrial supply company such as MSC (1-800-645-7270).

Assembly Drawing

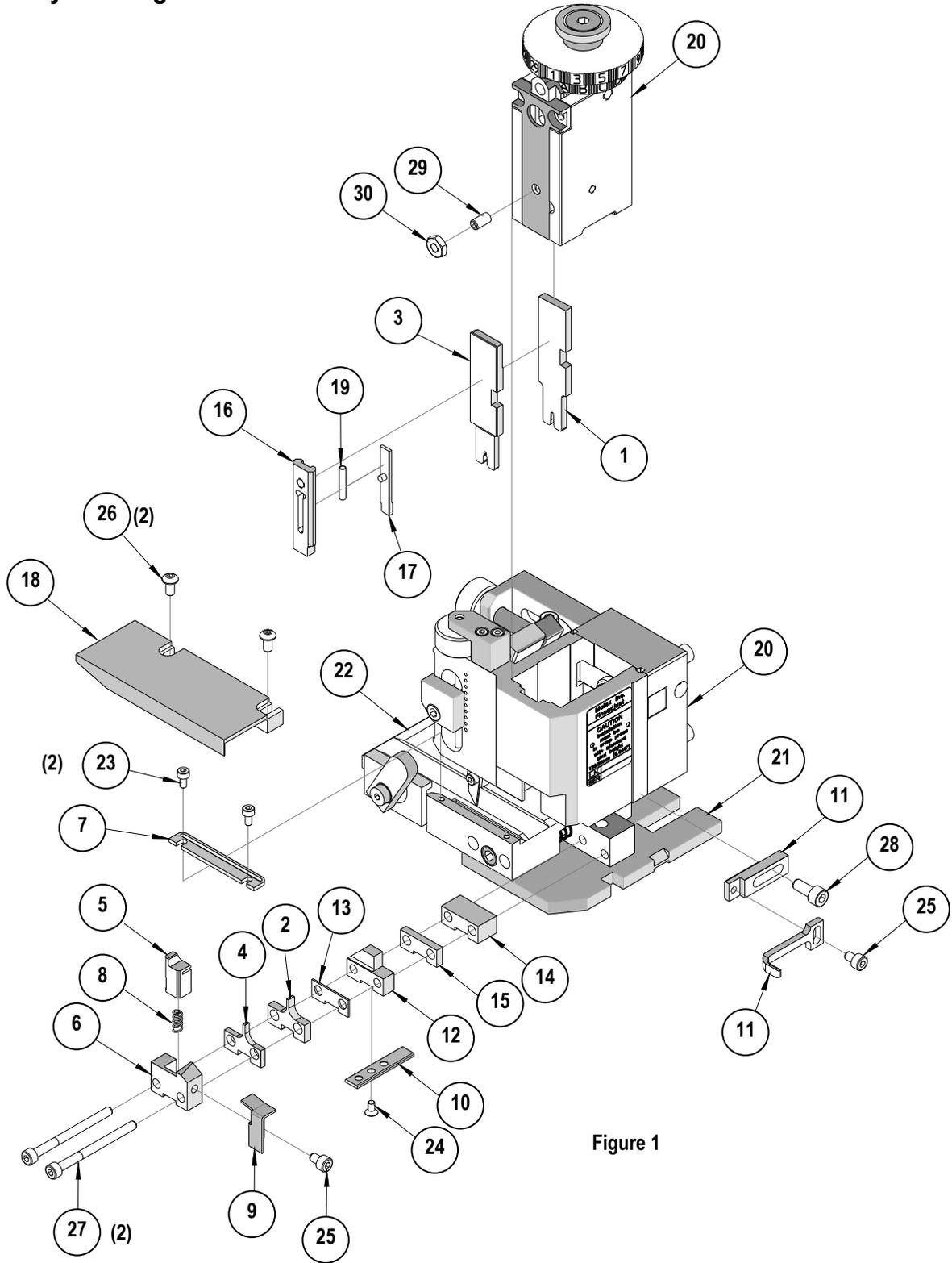


Figure 1

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 FineAdjust Manual.

CAUTION: This applicator should only be used in a press with a shut height of 135.8mm (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.

<http://www.molex.com>