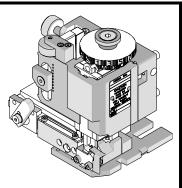


FEATURES

# FineAdjust Applicator Specification Sheet Order No. 63900-4200

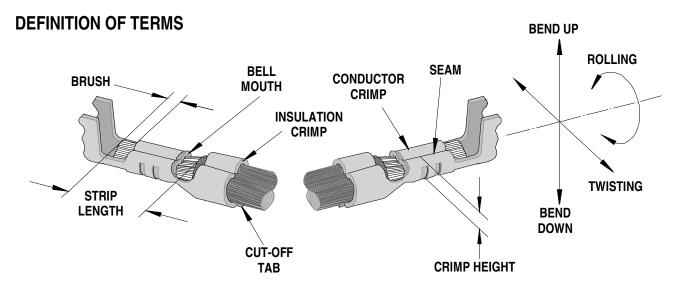


- Directly adapts to most automatic wire processing machines
- Quick punch removal with the push of a button for fast and easy tooling change
- Applicator designed to industry standard mounting and shut height 135.80mm (5.346")
- Quick set-up time; plus the crimp height, track and feed adjustments can 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: 1.25mm (.049") Pitch Board-In, Wire-to-Board, and Wire-to-Wire Crimp Terminal, 26-32 AWG.

Terminal Series No.	Terminal Order No.		Wire Size		Insulation Diameter		Strip Length	
Terminal Series No.			AWG	mm²	mm	ln.	mm	In.
50061	50061-8000	50061-8028	28-32	0.08-0.03	0.50-1.00	.020039	1.40-1.90	.055075
	50061-8018	50061-8099						
50080	50080-8000		26-28	0.12-0.08	0.50-1.00	.020039	1.40-1.90	.055075
50125	50125-8000		26-28	0.12-0.08	0.50-1.00	.020039	1.40-1.90	.055075
50133	50133-8000		28-32	0.08-0.03	0.50-1.00	.020039	1.40-1.90	.055075



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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### **INSULATION CRIMP FORM**

This crimp terminal is designed for miniaturization; therefore, each dimension of insulation crimp portion appears small as compared to the terminal material

thickness. In order to avoid insulation piercing the crimp forms by the insulation barrel, coining is provided inside of the insulation barrel. For this reason, various crimp forms will occur at the tip of the insulation crimp barrel shown in the figure below.

These crimp forms maybe changed completely by a small change in the wire, insulation punch, or terminal.

These crimp forms are satisfactory for original function of the insulation crimp portion and it is confirmed that all of these forms below are acceptable insulation crimps.

#### **CRIMP SPECIFICATION**

Terminal Series No.	Bell mouth		Cut-off Tab	Maximum	Conductor Brush		
Terminal Series No.	mm	In.	mm	In.	mm	In.	
50061	None	None	0.15	.006	0.00-0.70	.000028	
50080	None	None	0.15	.006	0.00-0.70	.000028	
50125	None	None	0.15	.006	0.00-0.70	.000028	
50133	None	None	0.15	.006	0.00-0.70	.000028	

	Bend up Bend down		Twist Roll		Punch Width mm (Ref)				
Terminal Series No.					Conductor		Insulation		Seam
	Degree		Degree		mm	In	mm	In	
50061	8	0	4	13	0.80	.031	0.80	.031	Seam shall not be open
50080	8	0	4	13	0.80	.031	0.80	.031	and no wire allowed out of
50125	2-8	0	4	10	0.80	.031	0.80	.031	the crimping area
50133	2-8	0	4	10	0.80	.031	0.80	.031	

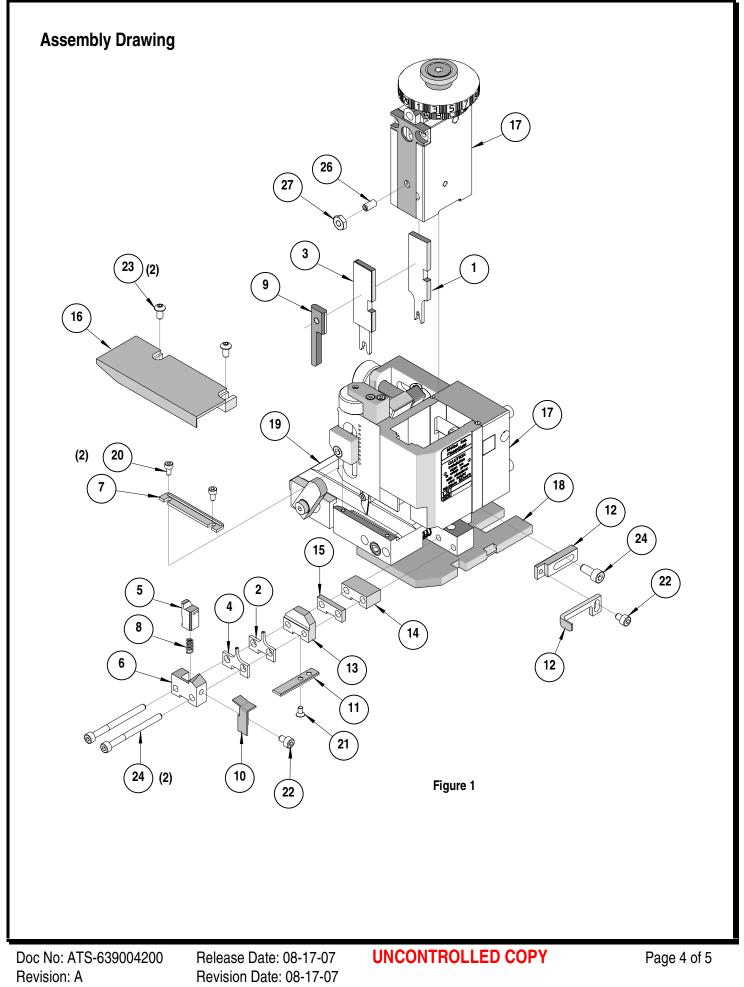
After crimping, the conductor profile should measure the following.

Terminal Series No.	Wire Size		Cond Crimp	Pull Force Minimum		
	AWG mm <sup>2</sup>		mm	In.	Ν	Lb.
	28	0.08	0.48-0.54	.019021	9.78	2.20
50061	30	0.05	0.47-0.52	.018020	4.89	1.10
	32	0.03	0.44-0.49	.017019	2.94	0.66
50080	26	0.12	0.59-0.64	.023025	9.78	2.20
50000	28	0.08	0.55-0.60	.022024	9.78	2.20
50125	26	0.12	0.59-0.64	.023025	9.78	2.20
50125	28	0.08	0.55-0.60	.022024	9.78	2.20
	28	0.08	0.48-0.54	.019021	9.78	2.20
50133	30	0.05	0.47-0.52	.018020	4.89	1.10
	32	0.03	0.44-0.49	.017019	2.94	0.66

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

## PARTS LIST

FineAdjust Applicator 63900-4200									
ltem	Order No	Engineering No.	Description	Quantity					
Perishable Tooling									
	63900-4270	63900-4270	Tool Kit (All "Y" Items)	REF					
1	63444-0802	63444-0802	Conductor Punch	1 Y					
2	63445-0806	63445-0806	Conductor Anvil	1 Y					
3	63446-0805	63446-0805	Insulation Punch	1Y					
4	63445-0805	63445-0805	Insulation Anvil	1 Y					
5	63443-0003	63443-0003	Cut-Off Plunger	1 Y					
6	63443-0012	63443-0012	Front Plunger Retainer	1 Y					
	Other Components (REF 003750)								
7	11-18-4083	60707-8	Feed Guide	1					
8	11-24-1067	4996-4	Cut-Off Plunger Spring	1					
9	11-40-4039	8302-5	Plunger Striker	1					
10	63443-0009	63443-0009	Front Scrap Chute	1					
11	63443-0024	63443-0024	Key	1					
12	63443-0090	63443-0090	Wire Stop	1					
13	63443-1703	63443-1703	17.30mm Height Spacer	1					
14	63443-2217	63443-2217	17.00mm Coarse Spacer	1					
15	63443-2306	63443-2306	3.30mm Fine Spacer	1					
16	63443-6111	63443-6111	Rear Cover	1					
Frame									
17	63800-4901	63800-4901	Тор	1					
18	63801-3281	63801-3281	Base	1					
19	63801-4650	63801-4650	Track	1					
		Н	ardware						
20	N/A	N/A	M3 by 6 Long SHCS	2**					
21	N/A	N/A	M3 by 6 Long FHCS	1**					
22	N/A	N/A	M4 by 6 Long SHCS	2**					
23	N/A	N/A	M4 by 12 Long BHCS	2**					
24	N/A	N/A	M4 by 45 Long SHCS	2**					
25	N/A	N/A	M5 by 12 Long SHCS	1**					
26	N/A	N/A	#10-32 by 3/8"Long Flat Point SSS	1**					
27	N/A	N/A	#10-32 Hex Jam Nut	1**					
**	** Available from an industrial supply company such as MSC (1-800-645-7270).								



#### 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 135.80 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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