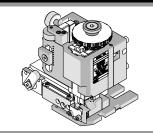


FineAdjust Applicator

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

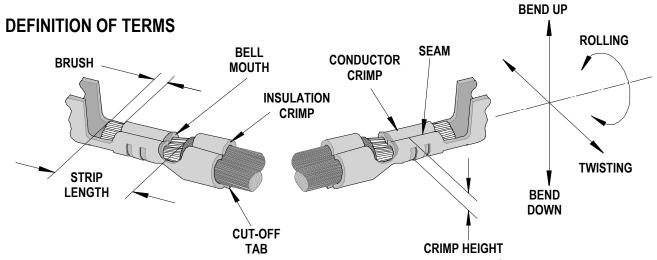
SCOPE

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

Tarminal	Terminal Order No.	Wire Size			Insulation Di	Strip Length			
Terminal Series No.				IPC/WHMA-A620 (1)				Terminal (2)	
Series No.		AWG	mm²	mm	ln.	mm	ln.	mm	ln.
	502579-0000	24		0.90 – 1.2	0.035 - 0.047	0.8 - 1.2	.031047	1.50 -1.90	.059075
		26		0.90 - 1.2	0.035 - 0.047	0.8 - 1.2	.031047		
502579		28		0.90 - 1.2	0.035 - 0.047	0.8 - 1.2	.031047		
			0.2	0.90 - 1.2	0.035 - 0.047	0.8 - 1.2	.031047		
			0.08	0.90 - 1.2	0.035 - 0.047	0.8 - 1.2	.031047		

⁽¹⁾ To achieve optimum IPC-A620 insulation crimps, use this insulation OD range.

⁽²⁾ Overall insulation OD specification for terminal.



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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CRIMP SPECIFICATION

Terminal Series No.	Bell r	nouth	Cut-off Tak	Maximum (Conductor Brush		
reminal Series No.	mm	ln.	mm	ln.	mm	ln.	
502579	0.10-0.40	.004016	0.10	.004	0.10 - 0.60	.004024	

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

After crimping, the conductor profile should measure the following.

Tamainal	Wire Size			◆Pull Force				
Terminal Series No.			Crimp Height		Crimp W	Minimum		
Series No.	AWG	mm²	mm	ln.	mm	ln.	N	Lb.
	24		0.60-0.65	.024026	1.00	0.039	29.4	6.61
	26		0.59-0.64	.023025	1.00	0.039	19.6	4.41
502579	→ 28		0.56-0.61	.022024	1.00	0.039	9.8	2.20
		0.2	0.60-0.65	.024026	1.00	0.039	29.4	6.61
		+ 0.08	0.56-0.61	.022024	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...

Tarminal	Wire Size		Insulation						
Terminal Series No.	wire	Size	Crimp Heigh	t (Maximum)	Crimp Width (Ref.)				
Series No.	AWG	mm²	mm	ln.	mm	ln.			
	24		1.65	.065	1.10	0.043			
	26		1.55	.061	1.10	0.043			
502579	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:

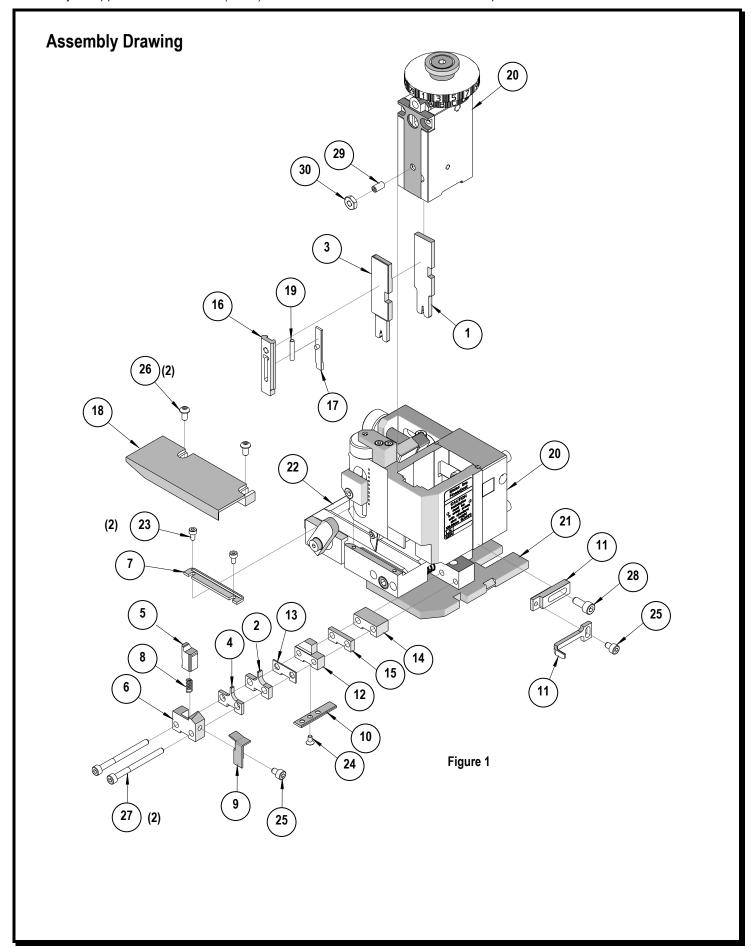
- 1. Pull Force should be measured with no influence from the insulation crimp.
- 2. The above specifications are guidelines to an optimum crimp.

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PARTS LIST

	FineAdjust Applicator 63901-1500								
Item	Order No	Engineering No.	Description	Quantity					
		Perish	nable 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	Тор	1					
21	63801-3281	63801-3281	Base	1					
22	63801-4650	63801-4650	Track	1					
			ardware						
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).								

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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 wireprocessing 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

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