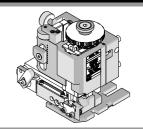
FineAdjust Applicator



Application Tooling Specification Sheet



Order No. 63901-4200

FEATURES

- 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
- Directly adapts to most automatic wire processing machines

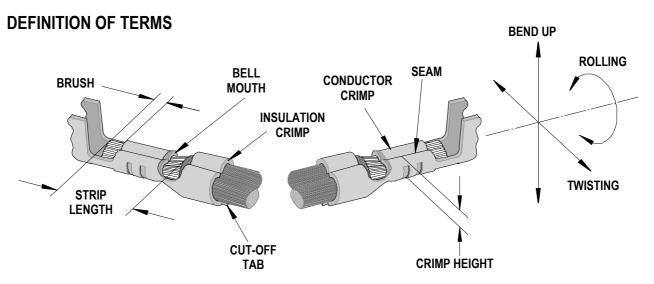
SCOPE

<u>Products:</u> 1.50mm (.059") Pico-SPOX™ Female Crimp Terminal, 24-30 AWG.

Terminal Series No.	Terminal Order No.		Wire Size			Insulation	Strip Length			
					IPC/WHMA-A620 (1)				Terminal (2)	
Series No.			AWG	mm²	mm	ln.	mm	ln.	mm	ln.
87421	87421-0000	87421-0001	24-30	0.20-0.05	0.90-1.15	.035045	0.70-1.15	.027045	1.05-1.54	.041061

(1) To achieve optimum IPC-A620 Class 2 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

Tarminal Carias No.	Bell n	nouth	Cut-off Tak	Maximum	Conductor Brush		
Terminal Series No.	mm	ln.	mm	ln.	mm	ln.	
87421	0.05-0.40	.002016	0.15	.006	0.00-0.50	.000020	

	Bend up E	Twist	Twist Roll Punch Widt		th mm (Ref)		Seam Seam shall not be open		
Terminal Series No.	Degree		Degree		Conductor				Insulation
					mm	ln	mm	In	and no wire allowed out
87421	3	3	3	3	1.00	.039	1.10	.043	of the crimping area

After crimping, the conductor profile should measure the following.

Terminal Series No.	Wire	Size	Conductor (Crimp Height	Pull Force Minimum		
Terminal Series No.	AWG	mm ²	mm	ln.	N	Lb.	
	24	0.20	0.56-0.60	.022024	29.4	6.6	
87421	26	0.12	0.52-0.58	.020023	19.6	4.4	
0/421	28	0.08	0.52-0.58	.020023	9.8	2.2	
	30	0.05	0.52-0.58	.020023	4.9	1.1	

Tool Qualification Notes:

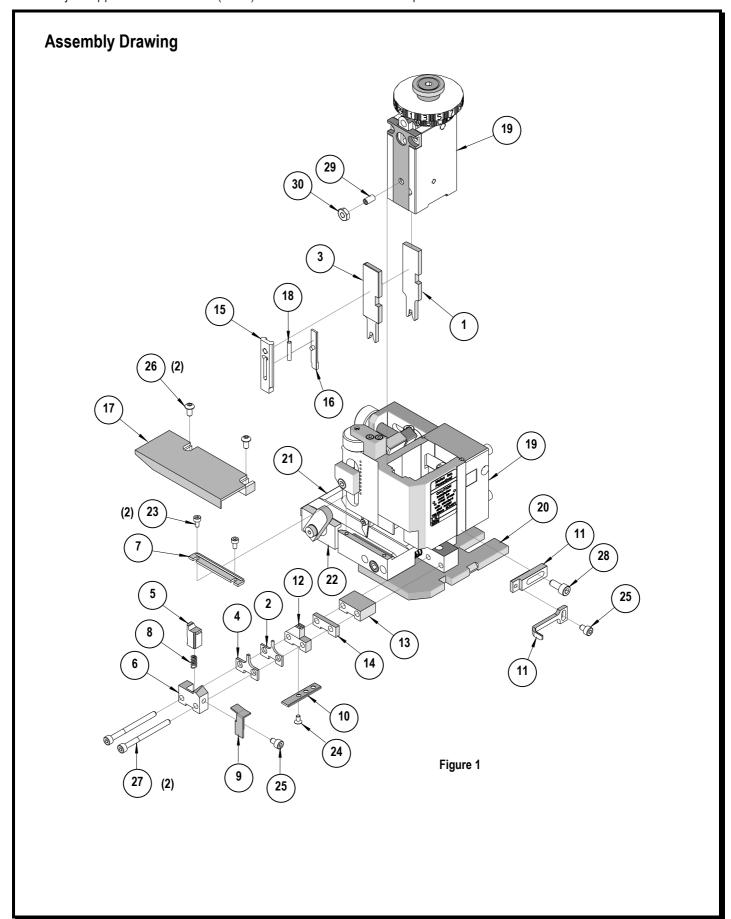
- 1. Pull Force should be measured with no influence from the insulation crimp.
- 2. The above specifications are guidelines to an optimum crimp.

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PARTS LIST

	FineAdjust Applicator 63901-4200								
Item	Order No	Engineering No.	Quantity						
Perishable Tooling									
	63901-4270	63901-4270	Tool Kit (All "Y" Items)	REF					
1	63444-1002	63444-1002	Conductor Punch	1 Y					
2	63445-1010	63445-1010	Conductor Anvil	1 Y					
3	63446-1110	63446-1110	Insulation Punch	1 Y					
4	63445-1129	63445-1129	Insulation Anvil	1 Y					
5	63443-0005	63443-0005	Front Cut-Off Plunger	1 Y					
6	63443-0012	63443-0012	Front Plunger Retainer	1 Y					
Other Components									
7	11-18-4094	60709A111	Front Cover	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	63443-1703	63443-1703	Height Spacer (17.30mm)	1					
13	63443-2217	63443-2217	Coarse Spacer (17.00mm)	1					
14	63443-2306	63443-2306	Fine Spacer (3.30mm)	1					
15	63443-2801	63443-2801	Front Plunger Striker	1					
16	63443-2908	63443-2908	Wire Hold Down Plunger	1					
17	63443-6003	63443-6003	Rear Cover	1					
18	63600-0021	63600-0021	Compression Spring	1					
Frame									
19	63800-4901	63800-4901	Тор	1					
20	63801-3281	63801-3281	Base	1					
21	63801-4650	63801-4650	Track	1					
22	63860-2015	63860-2015	Drag Frame (Modified)	1					
		Н	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 Long 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 135.8 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 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.

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

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