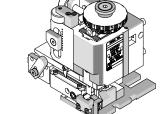
# Order Number 63904-6800





# **Application Tooling Specification**

#### **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 setup 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 0.15mm (.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
- This tool is IPC/WHMA-A-620 Class 2 Compliant
- Directly adapts to most automatic wire processing machines

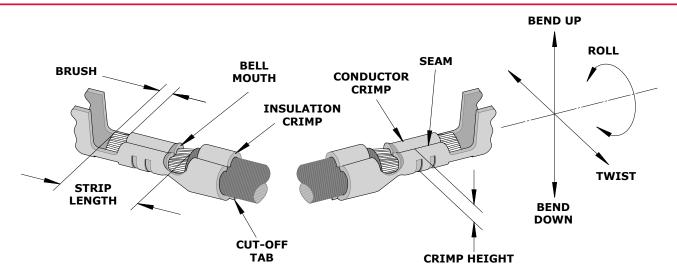
#### **SCOPE**

**Products:** 2.00mm (.079") Pitch Wire-to-Board Crimp Terminal, 24-30 AWG.

Terminal	Terminal Series Terminal Order No. No.		Wire Size			Insulation	Strip Length			
Series					IPC/WHM	A-A-620+	Terminal + +		Strip Length	
No.			AWG	mm²	mm	In.	mm	In.	mm	In.
50212	50212-8000	39-00-0424	24-30	_	0.90-1.10	.040043	0.80-1.40	.031055	1.30-1.80	.051071
	50394-8051	50394-8055	24-30	_	0.90-1.10	.040043	0.80-1.40	.031055	1.30-1.80	.051071
50394	50394-8052	50394-8099								
	50394-8054	50394-8999								
59354	59354-8081		24-28	_	0.90-1.10	.040043	0.80-1.40	.031055	1.30-1.80	.051071

<sup>◆</sup>To achieve optimum IPC/WHMA-A-620 insulation crimps, use this insulation OD range.

## **DEFINITION OF TERMS**



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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<sup>♦♦</sup>Overall insulation OD specification for terminal.

## **CRIMP SPECIFICATION**

Terminal Series No.	Bell N	1outh	Cut-Off Tal	Maximum	Conductor Brush		
Terminal Series No.	mm	In.	mm	In.	mm	In.	
50212	0.05-0.35	.002014	0.20	.008	0.00-0.50	.000020	
50394	0.05-0.35	.002014	0.20	.008	0.00-0.50	.000020	
59354	0.05-0.35	.002014	0.20	.008	0.00-0.50	.000020	

Townsing! Covice	Dand III	Band Bassa	Twist	Roll	Punch Width (Ref)					
Terminal Series No.	Bena Up	Bend Down			Cond	ductor Insulation		ation	Seam	
NO.	Degree		Degree		mm	In.	mm	In.		
50212	4	3	3	4	1.00	.039	1.40	.055	and no wire allowed out	
50394	4	3	3	4	1.00	.039	1.40	.055		
59354	4	3	3	4	1.00	.039	1.40	.055	of the crimping area	

After crimping, the conductor profile should measure the following:

Terminal Series No.	Wire	Size	Conductor C	rimp Height	Pull Force Minimum		
Terminal Series No.	AWG	mm²	mm	In.	N	Lb.	
	24	_	0.60-0.65	.024026	29.3	6.60	
50212	26	_	0.59-0.64	.023025	19.6	4.40	
50212	28	_	0.56-0.61	.022024	9.8	2.20	
	30	_	0.53-0.58	.021023	4.9	1.10	
	24	_	0.60-0.65	.024026	29.3	6.60	
F0204	26	_	0.59-0.64	.023025	19.6	4.40	
50394	28	_	0.56-0.61	.022024	9.8	2.20	
	30	_	0.53-0.58	.021023	4.9	1.10	
	24	_	0.60-0.65	.024026	29.3	6.60	
59354	26	_	0.59-0.64	.023025	19.6	4.40	
	28	_	0.56-0.61	.022024	9.8	2.20	

# **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.

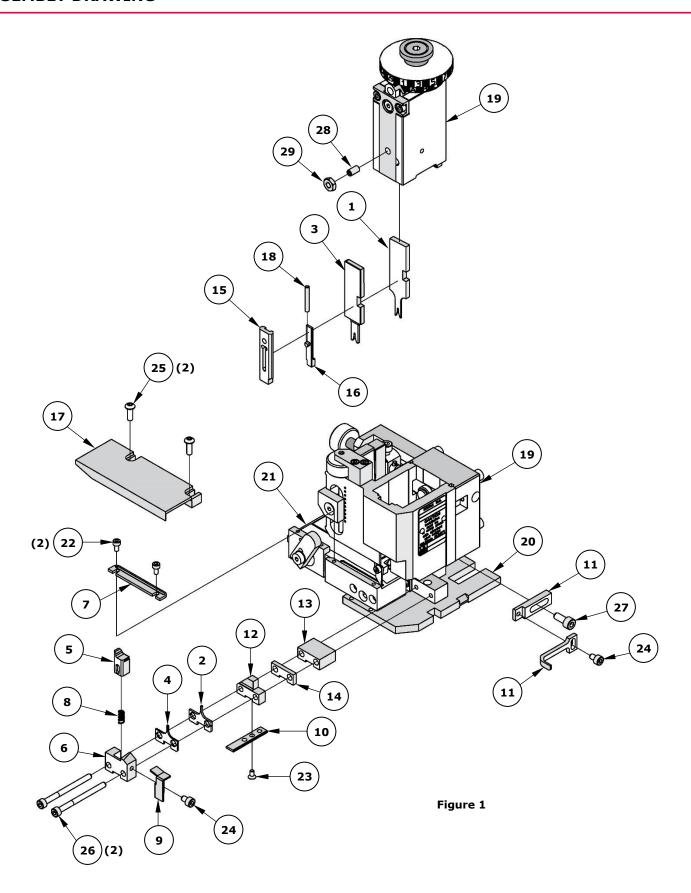
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## **PARTS LIST**

FineAdjust Applicator 63904-6800										
Item	Order No.	Engineering No.	Description	Quantity						
	Perishable Tooling									
	63904-6870	63904-6870	Tool Kit (All "Y" Items)	REF						
1	63444-1003	63444-1003	Conductor Punch	1 Y						
2	63445-1013	63445-1013	Conductor Anvil	1 Y						
3	63446-1231	63446-1231	Insulation Punch	1 Y						
4	63445-1204	63445-1204	Insulation Anvil	1 Y						
5	63443-0003	63443-0003	Front Cut-Off Plunger	1 Y						
6	63443-0012	63443-0012	Front Plunger Retainer	1 Y						
		Other Compo	nents (REF 005250)							
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	63443-1703	63443-1703	17.30mm Height Spacer	1						
13	63443-2217	63443-2217	17.00mm Coarse Spacer	1						
14	63443-2308	63443-2308	3.40mm Fine Spacer	1						
15	63443-2802	63443-2802	Plunger Striker	1						
16	63443-2906	63443-2906	Wire Hold Down Plunger	1						
17	63443-6111	63443-6111	Rear Cover	1						
18	63600-0021	63600-0021	Spring	1						
			Frame							
19	63800-4901	63800-4901	Тор	1						
20	63801-3281	63801-3281	Base	1						
21	63801-4650	63801-4650	Track	1						
		H	ardware							
22	_	_	M3 by 6 Long SHCS	2*						
23	_	_	M3 by 6 Long FHCS	1*						
24	_	_	M4 by 6 Long SHCS	2*						
25	_	_	M4 by 12 Long BHCS	2*						
26	_	_	M4 by 50 Long SHCS	2*						
27	_	_	M5 by 12 Long SHCS	1*						
28	_	_	#10-32 by 3/8"Long Flat Point SSS	1*						
29										
*Available from an industrial supply company.										

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## **ASSEMBLY DRAWING**



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## **NOTES**

- 1. Molex recommends that 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 the 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.

### **Application Tooling Support**

Phone: (402) 458-TOOL (8665)

E-Mail: applicationtooling@molex.com

Website: www.molex.com/applicationtooling

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