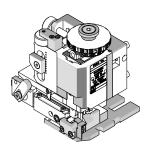
Order Number 63904-2300







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
- Directly adapts to most automatic wire processing machines

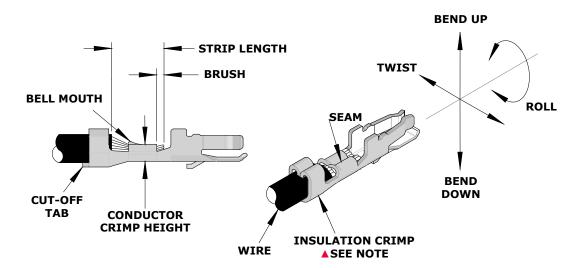
SCOPE

Products: Micro-Lock PLUS, 1.25mm (.049") Wire-to-Board Crimp Terminals, 26-30 AWG Wire.

Te	Terminal Series	Terminal W		re Size	Insulation Diameter				Strip Length	
		Order No.	wile Size		(See Note)◆		Terminal → →		Strip Length	
	NO.		AWG	mm²	mm	In.	mm	In.	mm	In.
	505431	505431-1000 505431-1100 505431-1200 505431-1300	26-30	0.12-0.05	0.78-0.90	.031035	0.78-1.02	.031040	1.40-1.60	.055063

- ◆ To ease terminal insertion onto the connector housing, use this insulation OD range. Due to the narrow connector spacing, IPC/WHMA-A-620 crimps are not attainable.
- ♦♦ Overall insulation OD specification for terminal.
 Oiler (Order No. 63801-7240) is required to crimp these terminals. See FineAdjust manual (Order No. 63800-4900).

DEFINITION OF TERMS



The above terminal drawing is a generic terminal representation. It is not an image of any 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 on the 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 represent acceptable insulation crimps.

CRIMP SPECIFICATION

Terminal Series No.	Bell Mouth		Cut-Off Tal	Maximum .	Conductor Brush	
Terminal Series No.	mm	In.	mm In.		mm	In.
505431	0.10-0.30	.004012	0.10	.004	0.10-0.30	.004012

T	Dand IIn	Dand Dawn	Total	Roll	Punch Width mm (Ref)			(Ref)	
Terminal Series No.	Bend Up	Bend Down	Twist	Koli	Conductor		Insulation		Seam
Series No.	Degree		Degree		mm	In.	mm	In.	
505431	2	3	3	4	0.85	.034	0.90	.035	Seam shall not be open and no wire allowed out 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	mm	In.	N	Lb.	
	26	0.54-0.59	.021023	19.6	4.40	
505431	28	0.49-0.54	.019021	9.8	2.20	
	30	0.46-0.51	.018020	4.9	1.10	

	Wire Size	Insulation					
Terminal Series No.	Wile Size	Crimp Hei	ght (Ref.)	Crimp Width (Ref.)			
	AWG	mm	In.	mm	In.		
	26	1.35	.053	1.00	.039		
505431	28	1.30	.051	1.00	.039		
	30	1.25	.049	1.00	.039		

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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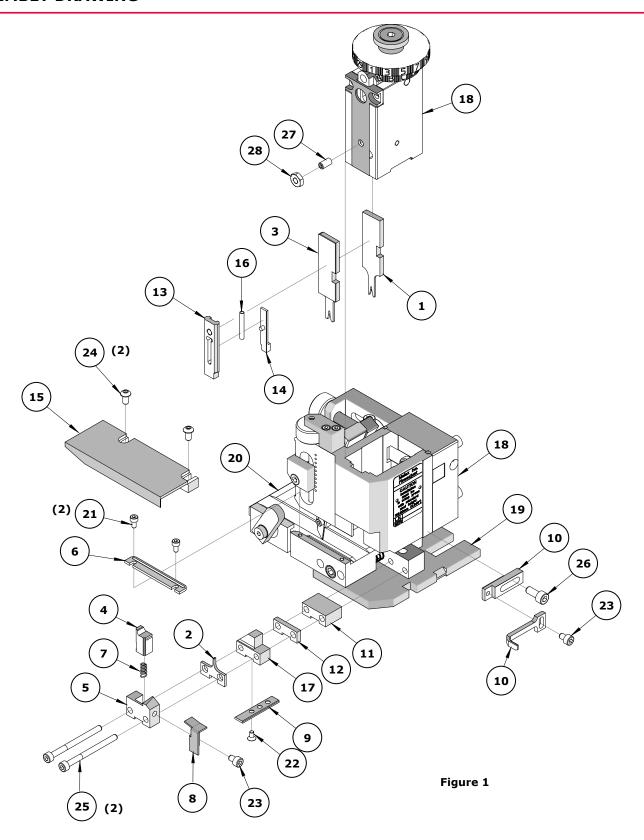
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PARTS LIST

	FineAdjust Applicator 63904-2300										
Item	Order No.	Engineering No.	Description	Quantity							
	Perishable Tooling										
	63904-2370	63904-2370	Tool Kit (All "Y" Items)	REF							
1	63457-0103	63457-0103	Conductor Punch	1 Y							
2	63455-0135	63455-0135	Conductor Anvil	1 Y							
3	63446-0905	63446-0905	Insulation Punch	1 Y							
4	63443-0005	63443-0005	Cut-Off Plunger	1 Y							
5	63443-0012	63443-0012	012 Front Plunger Retainer								
		Other	Components								
6	11-18-4083	60707-8	Feed Guide	1							
7	11-24-1067	4996-4	Cut-Off Plunger Spring	1							
8	63443-0009	63443-0009	Front Scrap Chute	1							
9	63443-0024	63443-0024	Key	1							
10	63443-0090	63443-0090	Wire Stop	1							
11	63443-2217	63443-2217	Coarse Spacer (17.00mm)	1							
12	63443-2309	63443-2309	Fine Spacer (3.40mm)	1							
13	63443-2806	63443-2806	Front Plunger Striker	1							
14	63443-2904	63443-2904	Wire Hold Down Plunger	1							
15	63443-6108 63443-6108		Rear Cover	1							
16	63600-0021	63600-0021	Compression Spring	1							
17	63443-1746	63443-1746	Height Spacer (19.00mm)	1							
			Frame								
18	63800-4901	63800-4901	Тор	1							
19	63801-3281	63801-3281	Base	1							
20	63801-4650	63801-4650	Track	1							
		H	ardware								
21	_		M3 by 6 Long SHCS	2*							
22	_		M3 by 6 Long FHCS	1*							
23	_	_	M4 by 6 Long SHCS	2*							
24	_	_	M4 by 12 Long BHCS	2*							
25			M4 by 45 Long SHCS	2*							
26			M5 by 12 Long SHCS	1*							
27	_	_	#10-32 by 3/8"Long Flat Point SSS	1*							
28 – –			#10-32 Hex Jam Nut 1*								
	* 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

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E-Mail: applicationtooling@molex.com
Website: www.molex.com/applicationtooling

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