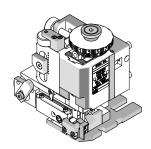
Order Number 203702-4300







FEATURES

- Quick punch removal with the push of a button for fast and easy tooling change
- Applicator designed to industry-standard mounting and 135.80mm (5.346") shut height
- 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 0.015mm (.0006") for conductor crimp height and 0.063mm (.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, as indicated below
- Directly adapts to most automatic wire processing machines
- For 20-22 AWG terminals, use FineAdjust applicator 203702-4400

SCOPE

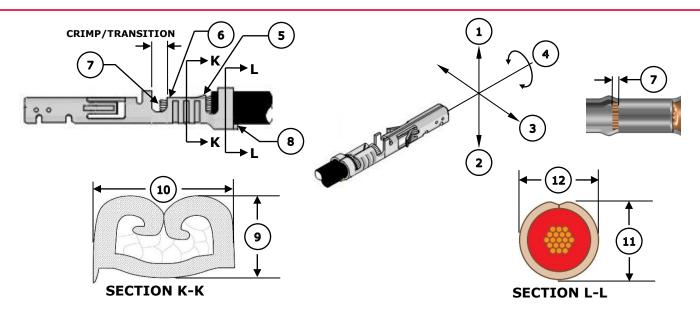
Products: Ultra-Fit Tang-less Plug Crimp Terminals, 16-18 AWG (UL1061) wire.

Terminal Series No.	Terminal Order No.	Wire Size		Insulation Diameter					
				IPC/WHMA-A-620 (1)		Terminal (2)		Strip Length	
		AWG	Wire Type	mm	In.	mm	In.	mm	In.
216946	216946-5011	16-18	UL1061	1.75-2.05	.069081	1.70-2.00	.067079	3.5-4.0	.1416
	216946-5012								
	216946-5013								
(1) To achieve optimum IPC/WHMA-A-620 class 2 insulation crimps, use this insulation OD range									

(1) To achieve optimum IPC/WHMA-A-620 class 2 insulation crimps, use this insulation OD range.
(2) Overall insulation OD specification for terminal.

Doc. No: 2037024300 Release Date: 09-27-21 **UNCONTROLLED COPY** Page 1 of 5 Revision: A1 Revision Date: 11-10-21

DEFINITION OF TERMS



Note: Image above is a generic terminal representation. The actual terminals of the scope may look different.

CRIMP SPECIFICATION

Feature	Requirement							
1. Bend Up	3° Max							
2. Bend Down	3° Max							
3. Twist	3° Max							
4. Roll	5° Max							
5. Bell Mouth Rear	0.30-0.80mm (.012031")							
6. Bell Mouth Front	Not Applicable							
7. Conductor Brush	0.00-1.00mm (.000039")							
8. Cut-Off Tab	0.20mm (.008") Max							
	Terminal Order No.	Wire Size	9. Crimp Height		10. Crimp Width (Ref)			
Conductor Crimp	216946-5011 216946-5012 216946-5013	16 AWG	1.18-1.28mm	.046050 In.	1.95-2.05mm	.077081 In.		
		18 AWG	0.95-1.05mm	.037041 In.	1.95-2.05mm	.077081 In.		
	Terminal Order No.	Wire Size	11. Crimp Height (Ref)		12. Crimp Width (Ref)			
Insulation Crimp	216946-5011 216946-5012	16 AWG	2.13mm	.084 In.	2.45mm	.096 In.		
	216946-5013	18 AWG	1.98mm	.078 In.	2.40mm	.094 In.		
	Terminal Order No.	erminal Order No. Wire Size		Minimum Pull Force				
Pull Force	216946-5011 216946-5012	16 AWG	68.4 N	15.3 lb.	To be measured with no influence from the insulation			
	216946-5013	18 AWG	68.4 N	15.3 lb.	crimp.			

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.
- 3. Terminal oiler (63801-7240) required to improve tooling life and minimize the crimp sticking in the punches. See 63800-4900 FineAdjust manual.

Doc. No: 2037024300 Release Date: 09-27-21 UNCONTROLLED COPY Page 2 of 5

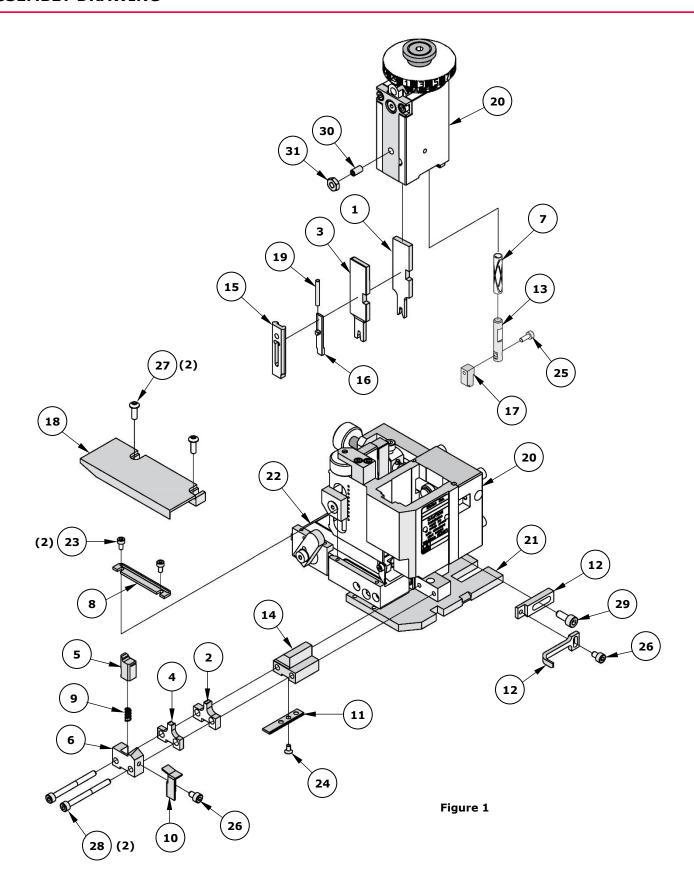
Revision: A1 Revision Date: 11-10-21

PARTS LIST

	FineAdjust Applicator 203702-4300						
Item	Order No.	Engineering No.	Description	Quantity			
Perishable Tooling							
	203702-4370	203702-4370	Tool Kit (All "Y" Items)	REF			
1	200216-2002	200216-2002	Conductor Punch	1 Y			
2	63455-2001	63455-2001	Conductor Anvil	1 Y			
3	63454-2404	63454-2404	Insulation Punch	1 Y			
4	63445-2411	63445-2411	Insulation Anvil	1 Y			
5	63443-0002	63443-0002	Cut-Off Plunger	1 Y			
6	63443-0012	63443-0012	Front Plunger Retainer	1 Y			
Other Components							
7	11-17-0022	1739-21	Compression Spring	1			
8	11-18-4083	60707-8	Feed Guide	1			
9	11-24-1067	4996-4	Cut-Off Plunger Spring	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	63443-0093	63443-0093	Shank	1			
14	200213-7511	200213-7511	Anvil Mount	1			
15	63443-2802	63443-2802	Front Plunger Striker	1			
16	63443-2911	63443-2911	Wire Hold Down Plunger	1			
17	63443-7101	63443-7101	Terminal Hold Down	1			
18	63443-6115	63443-6115	Rear Cover	1			
19	63600-0021	63600-0021	Compression Spring	1			
Frame							
20	63800-4901	63800-4901	Тор	1			
21	63801-3281	63801-3281	Base	1			
22	63801-4650	63801-4650	Track	1			
	<u> </u>	Hard	ware	1			
23	_	_	M3 by 6 Long SHCS	2*			
24	_	_	M3 by 6 Long FHCS	1*			
25	_	_	M3 by 8 Long SHCS	1*			
26	_	_	M4 by 6 Long SHCS	2*			
27	_	_	M4 by 12 Long BHCS	2*			
28	_	_	M4 by 50 Long SHCS	2*			
29	_	_	M5 by 12 Long SHCS	1*			
30	_	_	M5 by 10 Long Flat Point SSS	1*			
31	_	_	M5 Hex Jam Nut	1*			
* Available from an industrial supply company.							

Doc. No: 2037024300 Release Date: 09-27-21 **UNCONTROLLED COPY** Page 3 of 5 Revision: A1 Revision Date: 11-10-21

ASSEMBLY DRAWING



Doc. No: 2037024300 Release Date: 09-27-21 **UNCONTROLLED COPY** Page 4 of 5 Revision: A1 Revision Date: 11-10-21

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: toolingsupport@molex.com

Website: www.molex.com/applicationtooling

Molex is a registered trademark of Molex, LLC in the United States of America and may be registered in other countries; all other trademarks listed herein belong to their respective owners.

Doc. No: 2037024300 Release Date: 09-27-21 UNCONTROLLED COPY Page 5 of 5

Revision: A1 Revision Date: 11-10-21