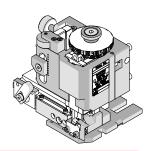
Order Number 203702-4800







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
- Directly adapts to most automatic wire processing machines

SCOPE

Products: 2.5 Mini Waterproof Wire-to-Wire Crimp Terminals, 20-22 AWG.

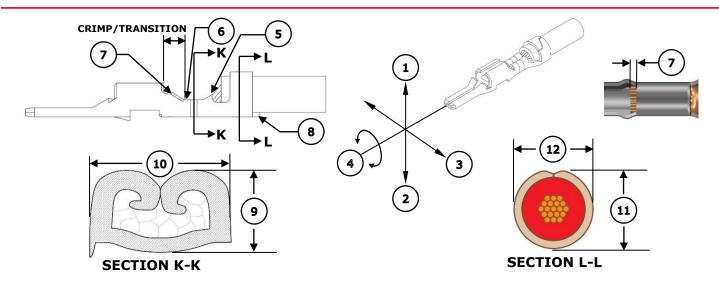
Terminal	Terminal Order No.	Wire Size		Insulation Diameter				Chuin I an ath	
Series No.				Suggested (1)		Terminal (2)		Strip Length	
Series No.		AWG	mm²	mm	In.	mm	In.	mm	In.
	50147-8000 50148-8000	22	_	1.40-1.60	.055063	1.40-1.90	.055075	2.00-2.50	.078098
		_	AVSS-0.3						
		_	CAVS-0.3						
50147		_	CAVUS-0.3						
50148		20							
		_	AVSS-0.5						
		_	CAVS-0.5						
		_	CAVUS-0.5						

- (1) To achieve the best insulation crimps, use this insulation diameter range.
- (2) Overall insulation OD specification for terminal.
- (3) This applicator was tested but does not produce an insulation crimp that meets the IPC/WHMA-A-620 standard.

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DEFINITION OF TERMS



CRIMP SPECIFICATION

Feature	Requirement							
1. Bend Up	2° Max							
2. Bend Down	3° Max							
3. Twist	3º Max							
4. Roll	10° Max							
5. Bell Mouth Rear	0.00-0.30mm (.000012")							
6. Bell Mouth Front	Not Applicable							
7. Conductor Brush	0.10-0.90mm (.004035")							
8. Cut-Off Tab	0.00-0.30mm (.000012") Max							
	Terminal Series No.	Wire Size		9 Crimn	Height	10. Crimp Width (Ref)		
	Terminal Series No.	AWG	mm ²	9. Crimp Height				
		22	_	0.94-0.99mm	.037039 In.	1.40mm	.055 In.	
			AVSS-0.3 CAVS-0.3	0.94-0.99mm	.037039 In.	1.40mm	.055 In.	
Conductor Crimp	50147	20	_	0.96-1.06mm	.038042 In.	1.40mm	.055 In.	
	50148		AVSS-0.5 CAVS-0.5	0.96-1.06mm	.038042 In.	1.40mm	.055 In.	
			CAVUS-0.3	0.94-0.99mm	.037039 In.	1.40mm	.055 In.	
			CAVUS-0.5	0.96-1.06mm	.038042 In.	1.40mm	.055 In.	
		Wire Size						
	Terminal Order No.	AWG	mm ²	11. Crimp Height (Max)		12. Crimp Width (Ref)		
		22	_	1.90mm	.075 In.	1.80mm	.071 In.	
		_	AVSS-0.3 CAVS-0.3	1.90mm	.075 In.	1.80mm	.071 In.	
Insulation Crimp	50147	20	_	1.90mm	.075 In.	1.80mm	.071 In.	
	50148		AVSS-0.5	1.90mm	.075 In.	1.80mm	.071 In.	
			CAVS-0.5				_	
			CAVUS-0.3	1.90mm	.075 In.	1.80mm	.071 In.	
			CAVUS-0.5	1.90mm	.075 In.	1.80mm	.071 In.	
	Terminal Order No.	Wire Size		Minimum Pull Force				
		AWG	mm ²	10.0 N				
		22		49.0 N	11.0 lb.	-		
			AVSS-0.3	49.0 N	11.0 lb.			
Pull Force	50147	 20	CAVS-0.3	53.9 N	12.1 lb.	To be measured with no influence from the insulation crimp.		
	50147	<u> </u>	AVSS-0.5	33.9 N	IZ.I IU.			
	30140		CAVS-0.5	53.9 N	12.1 lb.			
		_	CAVUS-0.3	49.0 N	11.0 lb.			
		_	CAVUS-0.5	53.9 N	12.1 lb.			

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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.

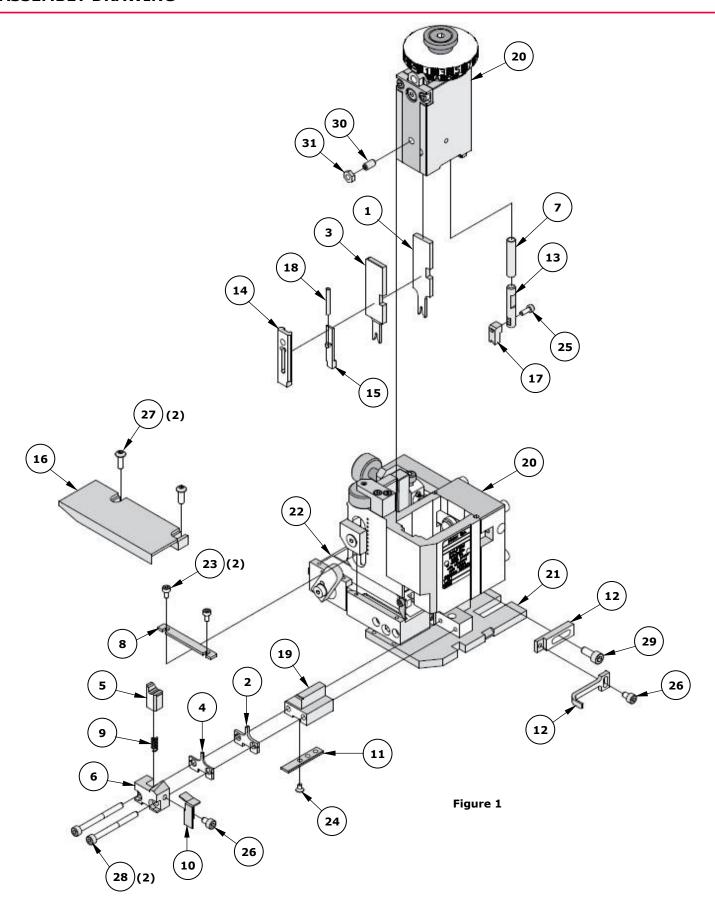
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PARTS LIST

FineAdjust Applicator 203702-4800								
Item	Order No.	Engineering No.	Description	Quantity				
Perishable Tooling								
	203702-4870	203702-4870	Tool Kit (All "Y" Items)	REF				
1	63444-1407	63444-1407	Conductor Punch	1 Y				
2	63445-1430	63445-1430	Conductor Anvil	1 Y				
3	63454-0038	63454-0038	Insulation Punch	1 Y				
4	63445-1805	63445-1805	Insulation Anvil	1 Y				
5	63443-0005	63443-0005	Cut-Off Plunger Front	1 Y				
6	63443-0012	63443-0012	Plunger Retainer Front	1 Y				
Other Components								
7	11-17-0022	11-17-0022	Hold Down 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	Scrap Chute Front	1				
11	63443-0024	63443-0024	Key	1				
12	63443-0090	63443-0090	Wire Stop	1				
13	63443-0093	63443-0093	Shank	1				
14	63443-2802	63443-2802	Front Plunger Striker	1				
15	63443-2906	63443-2906	Wire Hold-Down Plunger	1				
16	63443-6111	63443-6111	Rear Cover	1				
17	63443-7146	63443-7146	Nose Hold Down	1				
18	63600-1057	63600-1057	Striker Plunger Spring	1				
19	200213-7556	200213-7556	Anvil Mount	1				
			Frame					
20	63800-4901	63800-4901	Тор	1				
21	63801-3281	63801-3281	Base	1				
22	63801-4650	63801-4650	Track	1				
	T	H	ardware					
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 45 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.								

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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 135.80mm (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

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