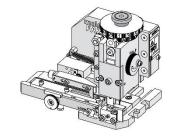
# Order Number 213069-4800





# Application Tooling Specification

### **FEATURES**

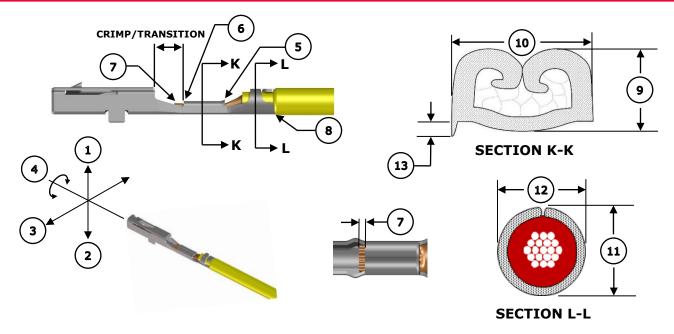
- Applicator designed to industry-standard mounting and 135.80mm (5.346") shut height
- Quick setup time; plus, the crimp height, track and feed adjustments can be set without removing the applicator from the press
- Fine adjustment allows users to achieve target with little effort by adjusting in increments of 0.015mm (.0006") for conductor crimp height and 0.025mm (.001") 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: DuraClik Robust (025 Receptacle), 0.30mm<sup>2</sup> and 0.50mm<sup>2</sup> AVSS Wire.

Terminal Series No.	Terminal Order No.	Wire		Insulation Diameter		Strip Length	
		Wire Type	Size	mm	In.	mm	In.
503116	503116-0102	AVSS	0.30mm <sup>2</sup>	1.40-1.50	.055059	4.00	.157177
		AVSS	0.50mm <sup>2</sup>	1.60-1.70	.063067	4.00	.157177

# **DEFINITION OF TERMS**



The above terminal drawing is a generic terminal representation. It is not an image of a terminal listed in the scope.

### **CRIMP SPECIFICATIONS**

Feature	Requirement							
1. Bend Up	2° Max							
2. Bend Down	1° Max							
3. Twist	4° Max							
4. Roll	6° Max							
5. Bell Mouth Rear	0.35-0.65mm (.014026")							
6. Bell Mouth Front	Not Applicable							
7. Conductor Brush	0.10-1.00mm (.004039")							
8. Cut-Off Tab	0.20mm (.008") Max							
	Wire Type	Wire Size	9. Crimp Height		10. Crimp Width			
Conductor Crimp	AVSS	0.30mm <sup>2</sup>	0.90-0.95mm	.035037 in.	1.70mm Max	.067 Max		
	AVSS	0.50mm <sup>2</sup>	0.94-1.04mm	.037041 in.	1.70mm Max	.067 Max		
	Wire Type	Wire Size	11. Crimp Height		12. Crimp Width			
Insulation Crimp	AVSS	0.30mm <sup>2</sup>	1.90-1.95mm	.075077 in.	1.70mm Max	.067 Max		
	AVSS	0.50mm <sup>2</sup>	2.05-2.15mm	.081085 in.	1.70mm Max	.067 Max		
	Wire Type	Wire Size	Minimum Force					
Pull Force	AVSS	0.30mm <sup>2</sup>	50 N	11.2 lb.	To be measured with no influence from the insulation crimp.			
	AVSS	0.50mm <sup>2</sup>	70 N	15.7 lb.				
13. Conductor Anvil Flash	0.10mm (.004") Max							

### NOTES

#### **Applicator Notes for Wire Processor Performance**

• In the event the insulation grips 'flag over' or do not provide adequate forming to the insulation wire diameter for strain relief, it is recommended to reduce machine and/or swivel speed to achieve the desired result.

#### **General Notes**

- 1. Molex recommends that an extra perishable tooling kit be maintained at your facility.
- 2. Verify tooling alignment by hand 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 FA2 manual (TM-638080200).
- 6. Molex recommends crimping stranded copper wire only.

### WARNINGS

**CAUTION:** This applicator must be installed in a press with a standard 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.

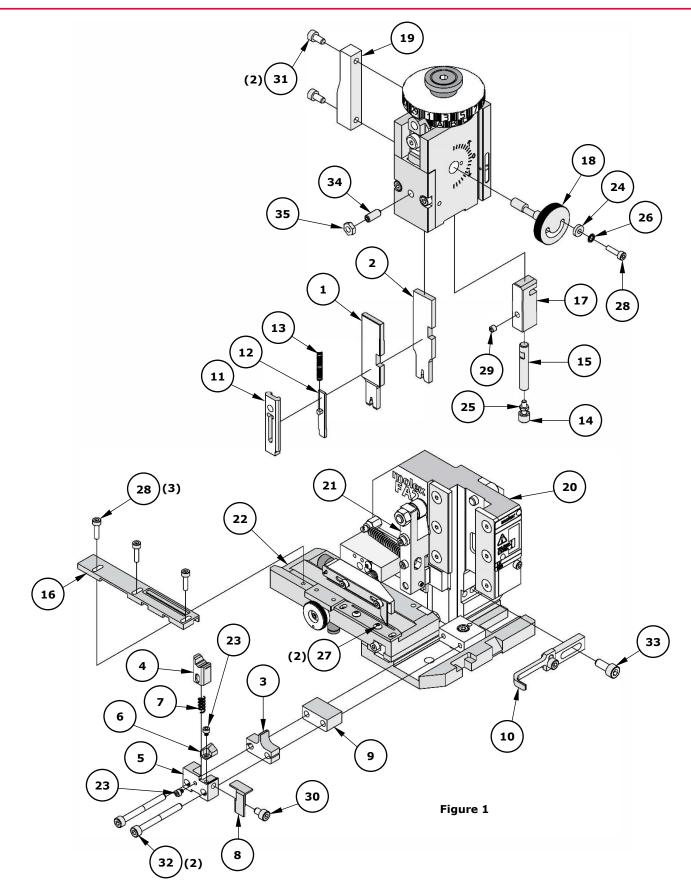
**CAUTION:** Molex tooling crimp specifications are valid only when used with Molex terminals and tooling manufactured by Molex and sold by Molex or authorized distributors ("Molex Tooling"). When using tooling other than Molex Tooling with Molex-specific connector systems listed in our ATS documents, the Molex Tooling qualification does not apply, and the responsibility for full qualification of the connector system is that of the customer. Molex accepts no liability for connector performance or tooling support where tooling other than Molex Tooling is used or where Molex Tooling is modified.

# PARTS LIST

	Applicator 213069-4800							
Item	Order No.	Engineering No.	Description	Quantity				
		Perishable	e Tooling					
	213069-4870	213069-4870	Tool Kit (All "Y" Items)	Ref				
1	200220-1651	200220-1651	Insulation Punch	1 Y				
2	200216-1605	200216-1605	Conductor Punch	1 Y				
3	200217-1603	200217-1603	Conductor Anvil	1 Y				
4	63443-0136	63443-0136	Cut-Off Plunger	1 Y				
		Non-Perishable	e Components					
5	63443-0118	63443-0118	Front Plunger Retainer	1				
6	63443-0119	63443-0119	Cutting Insert	1				
7	11-24-1067	4996-4	Cut-Off Plunger Spring	1				
8	63443-0117	63443-0117	Front Scrap Chute	1				
9	200213-0024	200213-0024	Anvil Mount	1				
10	63443-0090	63443-0090	Wire Stop Assembly	1				
11	63443-2806	63443-2806	Front Plunger Striker	1				
12	63443-2912	63443-2912	Wire Hold Down Plunger	1				
13	63600-0021	63600-0021	Wire Hold Down Spring	1				
14	63600-5776	63600-5776	Nose Hold Down	1				
15	63600-5775	63600-5775	Nose Hold Down Shank	1				
16	63443-4702	63443-4702	Terminal Guide	1				
17	63443-7403	63443-7403	Hold Down Block	1				
18	63808-0229	63808-0229	Bend Adjust Dial	1				
19	63443-4404	63443-4404	Feed Cam	1				
		Frai						
20	63808-0200	63808-0200	Applicator Core	1				
21	63808-0197	63808-0197	Mechanical Feed Assembly	1				
22	63808-0191	63808-0191	Track Assembly	1				
		Hardy						
23	_	_	M2.5 x 4 SHCS	2*				
24	_	_	M3 Flat Washer Hard	1*				
25	_	_	M3 Hex Nut	1*				
26	_	_	M3 Inner Tooth Lock Washer	1*				
27	_	_	M3 x 6 BHCS	2*				
28	_	_	M3 x 12 SHCS	4*				
29	_		M4 x 4 SSS	1*				
30	_	_	M4 x 6 SHCS	1*				
31	_	_	M4 x 8 SHCS	2*				
32	_	_	M4 x 40 SHCS	2*				
33	_	_	M5 x 12 SHCS	1*				
34	_	_	M5 by 10 Long Flat Point SSS	1*				
35	_	_	M5 Hex Jam Nut	1*				
	stener parts can	be purchased throug description in th	h most industrial suppliers by us	=				

FA2 Crimp Applicator for DuraClik Robust (025 Receptacle) Crimp Terminals

## ASSEMBLY DRAWING



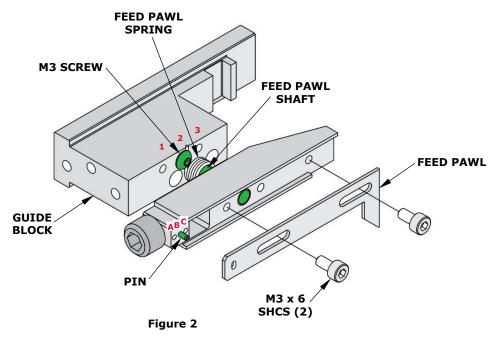
Release Date: 01-27-22 Revision Date: 01-27-22

# FACTORY SETTINGS

#### **Feed Pawl Assembly**

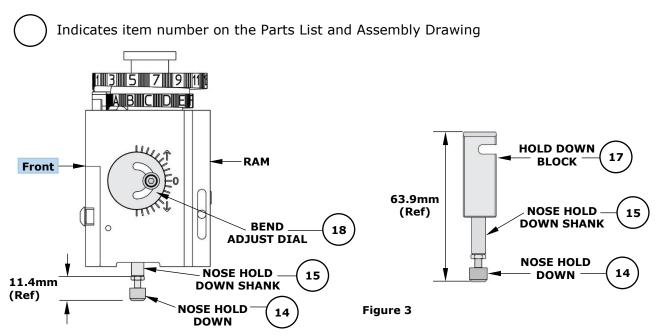
The FA2 applicator number 213069-4800 ships with the following factory settings. See Figure 2:

- The feed pawl shaft and M3 screw that holds the feed pawl spring are in position 2.
- The pin is in position B.



**Note:** Each applicator is configured and tested by Molex prior to shipping, and the above settings were used to produce the included sample crimps.

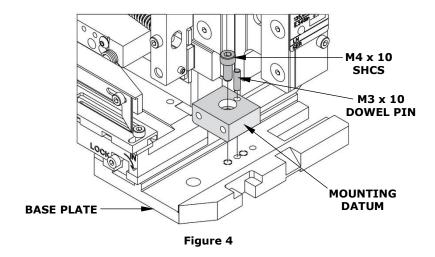
#### Third Dial/Ram Assembly



**Note:** The above dimensions were measured during setup and are included as a reference only. Additional adjustments may be required before crimping for production.

#### Mounting Datum Location

This applicator was assembled and tested by Molex with the mounting datum in the location shown in Figure 4. Do not remove the mounting datum.



#### **Application Tooling Support**

Phone: (402) 458-TOOL (8665) E-Mail: toolingsupport@molex.com Website: www.molex.com/applicationtooling

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