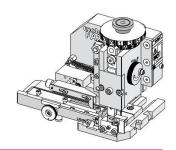
Order Number 215786-0500







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
- Fine adjustment of the bend is achieved using the bend adjust dial
- 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: CTX50 Receptacle Terminal Unsealed, 0.35mm² and 22 AWG Wire (♦See note below).

Terminal Series No.	Terminal Order No.	Wire Type	Wire Size		Insulation Diameter		Strip Length (Ref)	
Terminal Series No.		Wire Type	AWG	mm²	mm	In.	mm	In.
560023	560023-0548	ISO 6722-1	_	0.35	1.20-1.40	.047055	3.10	.122
		UL10086	22	_	1.30-1.40	.051055		
		UL10588			1.17-1.27	.046050		
		UL10316			1.10-1.30	.043051		
	560023-0448 560023-0648	ISO 6722-1		- 0.35	1.20-1.40	.047055	3.10	.122
		LV 112-1			1.20-1.30	.047051		
		FTP: 00949_10_00766			1.25-1.35	.049053		
		A3Z			1.25-1.35	.049053		
		FLRY-A			1.20-1.30	.047051		
		FLRYW-A			1.20-1.30	.047051		
		FLR13Y-A			1.20-1.40	.047055		
		UL10086	22	-	1.30-1.40	.051055	3.10	.122
		UL10588			1.17-1.27	.046050		
		UL10316			1.10-1.30	.043051		

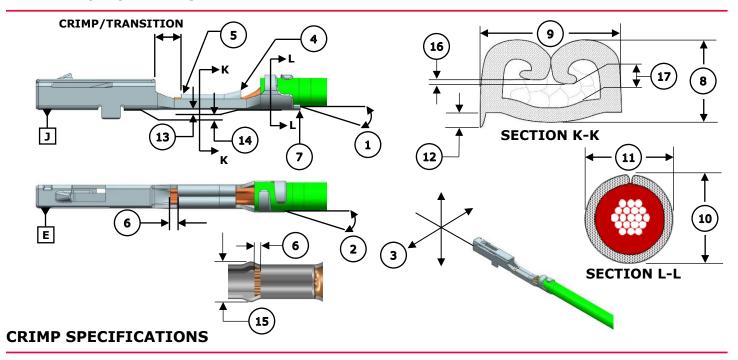
CAUTION: This applicator was designed for use in a wire processor only.

♦ Note: See Molex document AS-560023-001 Rev L for specific wire validation information.

Doc. No: 2157860500 Release Date: 07-07-21 **UNCONTROLLED COPY** Page 1 of 7

Revision: C Revision Date: 11-17-22

DEFINITION OF TERMS



The following crimp specifications are based on document AS-560023-001 Rev L:

Feature	Requirement					
1. Wire Straightness	Requirement					
Up/Down from Datum J	3° Max					
2. Wire Straightness						
Left/Right from Datum E	3° Max					
3. Twist	2° Max					
4. Bell Mouth Rear	0.60-0.80mm (.02403	31")				
5. Bell Mouth Front	None					
6. Conductor Brush	0.55mm (.022") Max					
	Not to extend above co	nductor crim	np/transition hei	ight		
7. Cut-Off Tab	0.30mm (.012") Max					
	Wire Type	Wire Size	8. Crimp		9. Crim	p Width
	ISO 6722-1		0.65-0.69mm		1.01-1.07mm	.040042 in.
	LV 112-1		0.65-0.69mm			
	FTP: 00949_10_00766	0.35mm ²	0.65-0.69mm			
Conductor Crimp	A3Z		0.59-0.63mm			
	FLRY-A		0.65-0.69mm			
	FLRYW-A		0.65-0.69mm			
	FLR13Y-A		0.65-0.69mm			
	UL10086		0.63-0.67mm			
	UL10588		0.69-0.73mm			
	UL10316		0.63-0.67mm			
	Wire Type	Wire Size	10. Crimp	Height	11. Crim	p Width
	ISO 6722-1	0.35mm²	1.48-1.58mm	.058062 in.	1.33-1.43mm	.052056 in.
	LV 112-1					
	FTP: 00949_10_00766					
	A3Z					
Insulation Crimp	FLRY-A					
	FLRYW-A					
	FLR13Y-A					
	UL10086	22 414/6				
	UL10588	22 AWG				
	UL10316					

Doc. No: 2157860500 Release Date: 07-07-21 **UNCONTROLLED COPY** Page 2 of 7 Revision: C Revision Date: 11-17-22

	Wire Type	Wire Size	Minimun	n Force		
	ISO 6722-1			11.3 lb.		
	LV 112-1		50 N			
	FTP: 00949_10_00766				To be measured with no influence from the insulation crimp.	
	A3Z	0.35mm ²				
Pull Force	FLRY-A					
	FLRYW-A					
	FLR13Y-A					
	UL10086					
	UL10588	22 AWG				
	UL10316					
12. Conductor Anvil Flash	0.10mm (.004") Max					
13. Conductor Grip Step	-0.05-0.05mm (002002")					
14. Insulation Grip Step	-0.13-0.07mm (005003")					
15. Crimp Bulge	1.07mm (.042") Max					
16. Wing Dissymmetry	0.20mm (.008") Max					
17. Space Between Wing	0.10mm (.004") Min					
Tips and Crimp Bottom	312311111 (1301) 11111					

NOTES

Applicator Notes

- This applicator is for automatic wire processor use only.
- This applicator does not include a cutting insert.
- Installing a cutting insert will cause jamming in this applicator.

Specification Notes

It is very important that the brush length is consistently within specification for this sealed connector system to work properly.

CUTTING INSERT

This applicator should only be run in a properly set up wire processor to consistently achieve the brush length.

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.
- 7. Lubrication must be used when crimping gold and select gold terminals to prevent terminals from sticking in the conductor punch. Use 63801-7240 oiler or equivalent.

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 Molexspecific 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.

Doc. No: 2157860500 Release Date: 07-07-21 **UNCONTROLLED COPY** Page 3 of 7 Revision Date: 11-17-22

Revision: C

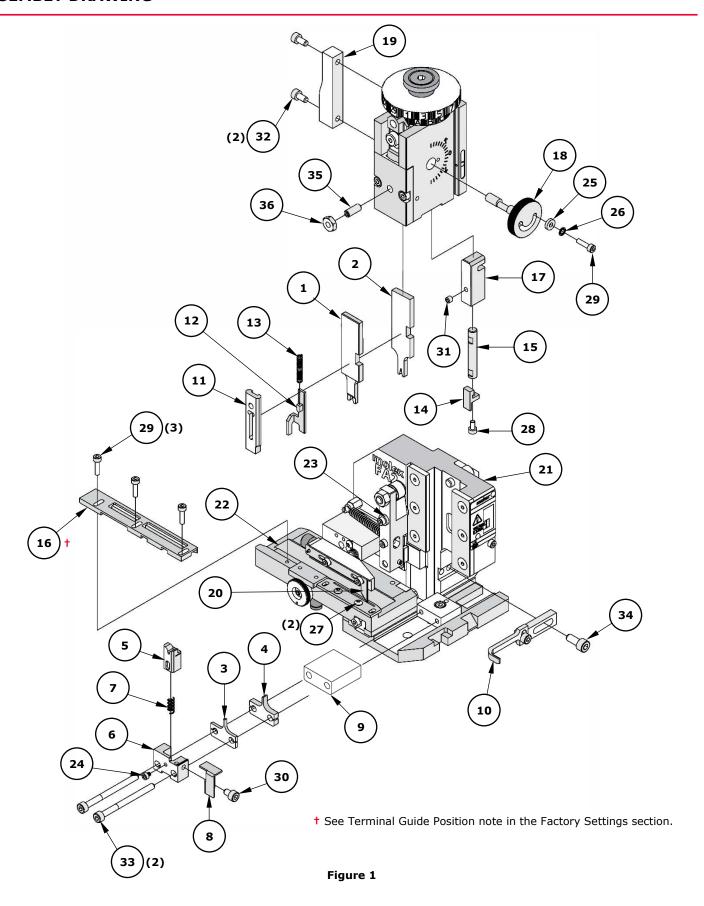
PARTS LIST

Second Perion Per	FA2 Applicator 215786-0500								
215786-0570 215786-0570 Tool Kit (All "Y" Items) Ref	Item	Order No.			Quantity				
1 63454-1302 63457-1004 63457-1004 1 Y 2 63457-1004 63457-1004 Conductor Punch 1 Y 3 63456-1302 63456-1302 Insulation Anvil 1 Y 4 63455-1005 63455-1005 Conductor Anvil 1 Y 5 63443-0154 63443-0154 Cut-Off Plunger 1 Y Non-Perishable Components 6 63443-0118 63443-0118 Front Plunger Retainer 1 7 11-24-1067 4996-4 Cut-Off Plunger Spring 1 8 63443-0117 63443-0117 Front Scrap Chute 1 9 2002137571 2002137571 Anvil Mount 1 10 63443-0091 63443-0091 Wire Stop 1 11 63443-5203 63443-5203 Front Plunger Striker 1 12 63443-5303 63443-5303 Wire Hold Down Spring 1 13 63600-021 63600-500 Mire Hold Down Shank 1 15 6360									
2 63457-1004 63457-1004 Conductor Punch 1 Y 3 63456-1302 63456-1302 Insulation Anvil 1 Y 4 63455-1005 63455-1005 Conductor Anvil 1 Y 5 63443-0154 63443-0154 Cut-Off Plunger 1 Y Non-Perishable Components 6 63443-0118 63443-0118 Front Plunger Retainer 1 7 11-24-1067 4996-4 Cut-Off Plunger Spring 1 8 63443-0117 63443-0117 Front Scrap Chute 1 9 2002137571 2002137571 Anvil Mount 1 10 63443-0091 63443-0091 Wire Stop 1 11 63443-0091 63443-0091 Wire Stop 1 12 63443-5003 63443-5003 Front Plunger Striker 1 12 63443-5303 63443-5303 Wire Hold Down Plunger 1 13 63600-0021 63600-500 Mose Hold Down Shank 1 15 6360		215786-0570	215786-0570	Tool Kit (All "Y" Items)	Ref				
3 63456-1302 63456-1302 Insulation Anvil 1 Y 4 63455-1005 63455-1005 Conductor Anvil 1 Y 5 63443-0154 63443-0154 Cut-Off Plunger 1 Y Non-Perishable Components 6 63443-0118 Front Plunger Retainer 1 7 11-24-1067 4996-4 Cut-Off Plunger Spring 1 8 63443-0117 63443-0117 Front Scrap Chute 1 9 2002137571 2002137571 Anvil Mount 1 10 63443-0091 G3443-5009 Wire Stop 1 11 63443-5203 63443-5203 Front Plunger Striker 1 12 63443-5303 63443-5303 Wire Hold Down Plunger 1 13 63600-0021 Wire Hold Down Spring 1 14 63443-7148 Rose Hold Down Shank 1 15 63600-5767 63600-5767 Nose Hold Down Shank 1 16 63443-4701 63443-4701 Terminal Guide<	1	63454-1302	63454-1302	Insulation Punch	1 Y				
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S	3	63456-1302	63456-1302	Insulation Anvil	1 Y				
Non-Perishable Components	4	63455-1005	63455-1005	Conductor Anvil	1 Y				
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14 63443-7148 63443-7148 Nose Hold Down 1 15 63600-5767 63600-5767 Nose Hold Down Shank 1 16 63443-4701 G3443-4701 Terminal Guide 1† 17 63443-7403 63443-7403 Hold Down Block 1 18 63808-0229 63808-0229 Bend Adjust Dial 1 19 63443-4409 63443-4409 Feed Cam 1 20 63808-0249 63808-0249 Feed Pawl 1 Frame 21 63808-0200 63808-0200 Applicator Core 1 22 63808-0191 Track Assembly 1 Hardware 24 — — M2.5 x 3 SHCS 1* 25 — — M3 Flat Washer Hard 1* 26 — — M3 Inner Tooth Lock Washer 1* 27 — — M3 x 6 BHCS 2*	12				1				
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16 63443-4701 63443-4701 Terminal Guide 1† 17 63443-7403 63443-7403 Hold Down Block 1 18 63808-0229 63808-0229 Bend Adjust Dial 1 19 63443-4409 63443-4409 Feed Cam 1 20 63808-0249 63808-0249 Feed Pawl 1 Frame 21 63808-0200 63808-0200 Applicator Core 1 22 63808-0191 G3808-0191 Track Assembly 1 Hardware 24 — — M2.5 x 3 SHCS 1* 25 — — M3 Flat Washer Hard 1* 26 — — M3 Inner Tooth Lock Washer 1* 27 — — M3 x 6 BHCS 2*	14	63443-7148	63443-7148	Nose Hold Down	1				
17 63443-7403 63443-7403 Hold Down Block 1 18 63808-0229 Bend Adjust Dial 1 19 63443-4409 Feed Cam 1 20 63808-0249 Feed Pawl 1 Frame 21 63808-0200 63808-0200 Applicator Core 1 22 63808-0191 G3808-0191 Track Assembly 1 23 63808-0197 63808-0197 Mechanical Feed Assembly 1 Hardware 24 — — M2.5 x 3 SHCS 1* 25 — — M3 Flat Washer Hard 1* 26 — — M3 Inner Tooth Lock Washer 1* 27 — — M3 x 6 BHCS 2*	15	63600-5767	63600-5767	Nose Hold Down Shank	1				
18 63808-0229 Bend Adjust Dial 1 19 63443-4409 63443-4409 Feed Cam 1 20 63808-0249 Feed Pawl 1 Frame 21 63808-0200 63808-0200 Applicator Core 1 22 63808-0191 G3808-0191 Track Assembly 1 23 63808-0197 63808-0197 Mechanical Feed Assembly 1 Hardware 24 — — M3.5 x 3 SHCS 1* 25 — — M3 Flat Washer Hard 1* 26 — — M3 Inner Tooth Lock Washer 1* 27 — — M3 x 6 BHCS 2*	16	63443-4701	63443-4701	Terminal Guide	1†				
19 63443-4409 Feed Cam 1 20 63808-0249 Feed Pawl 1 Frame 21 63808-0200 63808-0200 Applicator Core 1 22 63808-0191 63808-0191 Track Assembly 1 23 63808-0197 63808-0197 Mechanical Feed Assembly 1 Hardware 24 — — M3.5 x 3 SHCS 1* 25 — — M3 Flat Washer Hard 1* 26 — — M3 Inner Tooth Lock Washer 1* 27 — — M3 x 6 BHCS 2*	17	63443-7403	63443-7403	Hold Down Block	1				
20 63808-0249 Feed Pawl 1 Frame 21 63808-0200 63808-0200 Applicator Core 1 22 63808-0191 63808-0191 Track Assembly 1 23 63808-0197 63808-0197 Mechanical Feed Assembly 1 Hardware 24 — — M3.5 x 3 SHCS 1* 25 — — M3 Flat Washer Hard 1* 26 — — M3 Inner Tooth Lock Washer 1* 27 — — M3 x 6 BHCS 2*	18	63808-0229	63808-0229	Bend Adjust Dial	1				
Frame 21 63808-0200 63808-0200 Applicator Core 1 22 63808-0191 63808-0191 Track Assembly 1 23 63808-0197 63808-0197 Mechanical Feed Assembly 1 Hardware 24 — — M2.5 x 3 SHCS 1* 25 — — M3 Flat Washer Hard 1* 26 — — M3 Inner Tooth Lock Washer 1* 27 — — M3 x 6 BHCS 2*	19	63443-4409	63443-4409	Feed Cam	1				
21 63808-0200 Applicator Core 1 22 63808-0191 Track Assembly 1 23 63808-0197 63808-0197 Mechanical Feed Assembly 1 Hardware 24 — — M2.5 x 3 SHCS 1* 25 — — M3 Flat Washer Hard 1* 26 — — M3 Inner Tooth Lock Washer 1* 27 — — M3 x 6 BHCS 2*	20	63808-0249	63808-0249	Feed Pawl	1				
22 63808-0191 63808-0191 Track Assembly 1 23 63808-0197 Mechanical Feed Assembly 1 Hardware 24 — — M2.5 x 3 SHCS 1* 25 — — M3 Flat Washer Hard 1* 26 — — M3 Inner Tooth Lock Washer 1* 27 — M3 x 6 BHCS 2*			Fr	ame					
23 63808-0197 Mechanical Feed Assembly 1 Hardware 24 — — M2.5 x 3 SHCS 1* 25 — — M3 Flat Washer Hard 1* 26 — — M3 Inner Tooth Lock Washer 1* 27 — — M3 x 6 BHCS 2*	21	63808-0200	63808-0200	Applicator Core	1				
Hardware 24 — — M2.5 x 3 SHCS 1* 25 — — M3 Flat Washer Hard 1* 26 — — M3 Inner Tooth Lock Washer 1* 27 — — M3 x 6 BHCS 2*	22	63808-0191	63808-0191	Track Assembly	1				
24 — — M2.5 x 3 SHCS 1* 25 — — M3 Flat Washer Hard 1* 26 — — M3 Inner Tooth Lock Washer 1* 27 — — M3 x 6 BHCS 2*	23	63808-0197	63808-0197	Mechanical Feed Assembly	1				
25 — M3 Flat Washer Hard 1* 26 — — M3 Inner Tooth Lock Washer 1* 27 — — M3 x 6 BHCS 2*									
26 — — M3 Inner Tooth Lock Washer 1* 27 — M3 x 6 BHCS 2*	24	_	_	M2.5 x 3 SHCS	1*				
27 – M3 x 6 BHCS 2*	25	_	_	M3 Flat Washer Hard	1*				
	26	_	_	M3 Inner Tooth Lock Washer	1*				
	27	_	_	M3 x 6 BHCS	2*				
28 - - M3 x 6 SHCS 1*	28	_	_	M3 x 6 SHCS	1*				
29 – – M3 x 12 SHCS 4*	29	_	_	M3 x 12 SHCS	4*				
30 M4 x 6 SHCS 1*	30	_	_	M4 x 6 SHCS	1*				
31 - M4 x 4 SSS 1*		_	_		1*				
32 M4 x 8 SHCS 2*	32	_	_	M4 x 8 SHCS	2*				
33 M4 x 50 SHCS 2*		_	_		2*				
34 M5 x 12 SHCS 1*		_	_						
35 — — M5 x 10 Long SSS 1*		_	_		1*				
36 — — M5 Hex Jam Nut 1*		_	_	3	1*				

^{*}Fastener parts can be purchased through most industrial suppliers by using the description in the table above.

Doc. No: 2157860500 Release Date: 07-07-21 **UNCONTROLLED COPY** Page 4 of 7 Revision: C Revision Date: 11-17-22

ASSEMBLY DRAWING



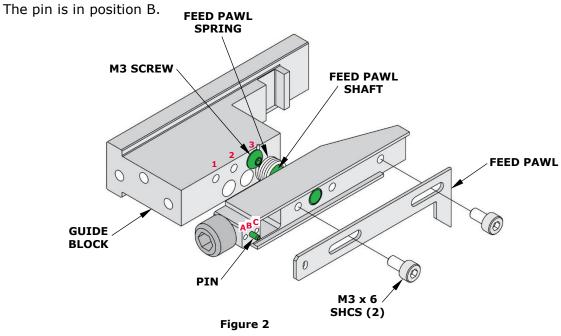
Doc. No: 2157860500 Release Date: 07-07-21 **UNCONTROLLED COPY** Page 5 of 7 Revision: C Revision Date: 11-17-22

FACTORY SETTINGS

Feed Pawl Assembly

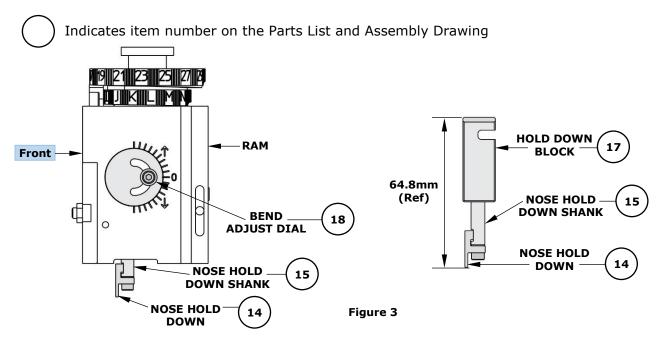
The FA2 applicator number 215786-0500 ships with the following factory settings. See Figure 2:

• The feed pawl shaft and M3 screw that holds the feed pawl spring are in position 3.



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



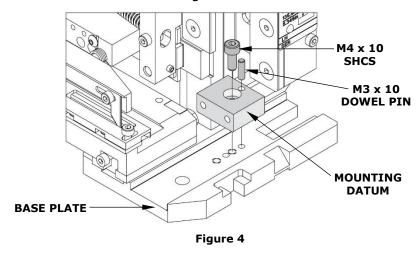
Note: The above dimensions were measured during setup and are included as a reference only. Additional adjustments may be required before crimping for production.

Doc. No: 2157860500 Release Date: 07-07-21 **UNCONTROLLED COPY** Page 6 of 7

Revision: C Revision Date: 11-17-22

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.



Terminal Guide Position

The terminal guide on this applicator should be positioned so that it is in front of the terminal conductor grips, as shown in Figure 5.

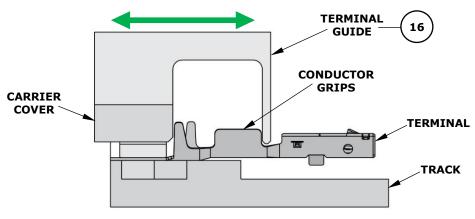


Figure 5

Application Tooling Support

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