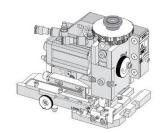
Order Number 63808-2210







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
- This applicator was designed for use in a wire processor only
- Fine adjustment of the bend is achieved using the bend adjust dial
- This applicator is configured with a pneumatic feed, which requires a 4-way pneumatic valve for operation

SCOPE

Products: CTX50 Sealed Large Receptacle Terminals, 0.35mm² wire.

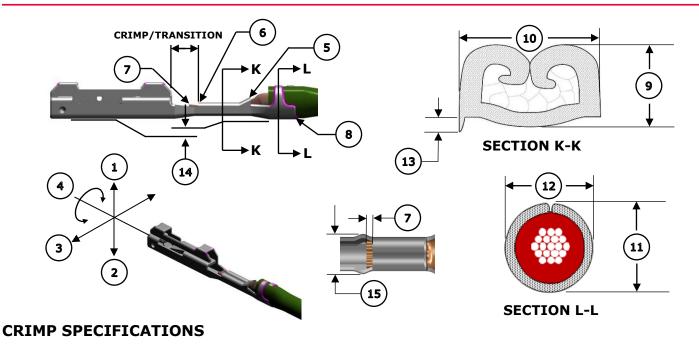
Terminal Series	Terminal Order No.	Wire		Insulation Diameter		Strip Length	
No.		Wire Type	Size	mm	In.	mm	In.
34905	34905-6447 34905-2447	FLR2X A3ZH-A	0.35mm ²	1.20-1.40	.047055	3.80	.150

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

CAUTION: To operate the pneumatic feed, a 4-way pneumatic valve is required.

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DEFINITION OF TERMS



The following crimp specifications are based on document AS-34905-001 Rev. H:

Feature	Requirement						
1. Bend Up	1° Max						
2. Bend Down	1° Max						
3. Twist	2° Max						
4. Roll	Not Applicable						
5. Bell Mouth Rear	0.25-0.45mm (.010018")						
6. Bell Mouth Front	Not Applicable						
7. Conductor Brush	0.30-0.70mm (.012028")						
8. Cut-Off Tab	0.20mm (.008") Max						
Conductor Crimp	Wire Type	Wire Size	9. Crim	Height	10. Crimp Width		
conductor crimp	FLR2X A3ZH-A	0.35 mm²	0.69-0.75mm	.027030 in.	1.09-1.15mm	.043045 in.	
Insulation Crimp	Wire Type	Wire Size	11. Crimp Height		12. Crimp Width		
Insulation Crimp	FLR2X A3ZH-A	0.35 mm²	1.50-1.56mm	.059061 in.	1.32-1.38mm	.052054 in.	
	Wire Type	Wire Size	Minimum Force				
Pull Force	FLR2X A3ZH-A	0.35 mm²	50 N	11.3 lb.	To be measured with no influence from the insulation crimp.		
13. Conductor Anvil Flash	0.10mm (.004") Max						
14. Insulation Grip Step	-0.135-0.065mm (005003")						
15. Crimp Bulge	1.25mm (.049") Max within crimp/transition area						

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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.

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.

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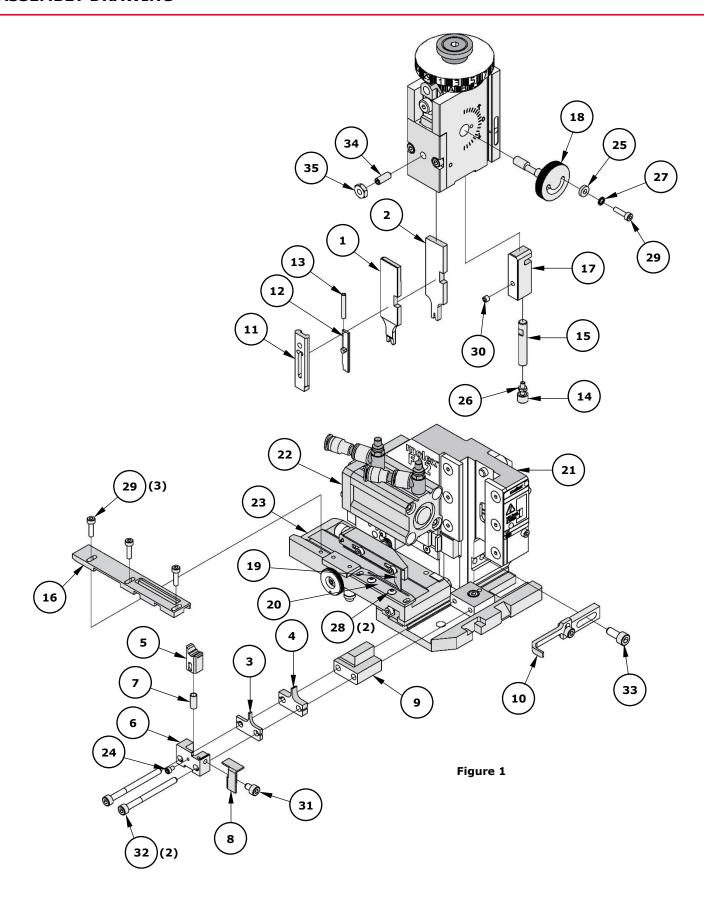
PARTS LIST

No.	Applicator 63808-2210								
G3808-2270 G3808-2270 Tool Kit (All "Y" Items) Ref	Item	Order No.	Engineering No.	Description	Quantity				
1 63454-0176 63457-0133 Conductor Punch 1 Y 2 63457-0133 63456-0128 G3456-0128 Insulation Anvil 1 Y 4 63455-0176 63455-0176 Conductor Anvil 1 Y 5 63443-0136 63443-0136 Cut-Off Plunger 1 Y Non-Perishable Components 6 63443-0118 Front Plunger Retainer 1 7 63700-0992 63700-0992 Cut-Off Plunger Spring 1 8 63443-0117 63443-0117 Front Scrap Chute 1 9 63443-7530 63443-0117 Front Scrap Chute 1 10 63443-0090 63443-0090 Wire Stop Assembly 1 11 63443-0090 63443-0090 Wire Stop Assembly 1 12 63890-0140 63890-0140 Wire Hold Down Plunger 1 13 63600-5776 63600-5776 Nose Hold Down Spring 1 14 63600-5775 63600-5775 Nose Hold Down Spring 1	Perishable Tooling								
1 63454-0176 63457-0133 Conductor Punch 1 Y 2 63457-0133 63456-0128 G3456-0128 Insulation Anvil 1 Y 4 63455-0176 63455-0176 Conductor Anvil 1 Y 5 63443-0136 63443-0136 Cut-Off Plunger 1 Y Non-Perishable Components 6 63443-0118 Front Plunger Retainer 1 7 63700-0992 63700-0992 Cut-Off Plunger Spring 1 8 63443-0117 63443-0117 Front Scrap Chute 1 9 63443-7530 63443-0117 Front Scrap Chute 1 10 63443-0090 63443-0090 Wire Stop Assembly 1 11 63443-0090 63443-0090 Wire Stop Assembly 1 12 63890-0140 63890-0140 Wire Hold Down Plunger 1 13 63600-5776 63600-5776 Nose Hold Down Spring 1 14 63600-5775 63600-5775 Nose Hold Down Spring 1		63808-2270	63808-2270	Tool Kit (All "Y" Items)	Ref				
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S	3	63456-0128	63456-0128	Insulation Anvil	1 Y				
Non-Perishable Components	4	63455-0176	63455-0176	Conductor Anvil	1 Y				
6 63443-0118 63443-0118 Front Plunger Retainer 1 7 63700-0992 63700-0992 Cut-Off Plunger Spring 1 8 63443-0117 63443-0117 Front Scrap Chute 1 9 63443-7530 63443-7530 Anvil Mount 1 10 63443-0990 63443-0990 Wire Stop Assembly 1 11 63443-2803 Front Plunger Striker 1 12 63890-0140 63890-0140 Wire Hold Down Plunger 1 13 63600-4389 63600-4389 Wire Hold Down Spring 1 14 63600-5776 63600-5776 Nose Hold Down Shank 1 15 63600-5775 63600-5775 Nose Hold Down Block 1 16 63443-4703 63443-4703 Terminal Guide 1 17 63443-7403 63443-4603 Terminal Guide 1 18 63808-0299 Bend Adjust Dial 1 19 63808-0299 Feed Pawl 1 20	5	63443-0136	63443-0136	Cut-Off Plunger	1 Y				
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17 63443-7403 63443-7403 Hold Down Block 1 18 63808-0229 63808-0229 Bend Adjust Dial 1 19 63808-0249 63808-0249 Feed Pawl 1 20 63443-4603 Carrier Cover 1 Frame 21 63808-0200 63808-0200 Applicator Core 1 22 63808-0196 63808-0196 Pneumatic Feed Assembly 1 Hardware 24 - - M2.5 x 4 SHCS 1* 25 - - M3 Flat Washer Hard 1* 26 - - M3 Hex Nut 1* 27 - - M3 Inner Tooth Lock Washer 1* 28 - - M3 x 6 BHCS 2* 29 - - M4 x 5 SSS 1* 30 - - M4 x 5 SHCS 1* 31 - - M4 x 50 SHCS 2* 33 - <td>15</td> <td>63600-5775</td> <td>63600-5775</td> <td>Nose Hold Down Shank</td> <td>1</td>	15	63600-5775	63600-5775	Nose Hold Down Shank	1				
18 63808-0229 63808-0229 Bend Adjust Dial 1 19 63808-0249 Feed Pawl 1 20 63443-4603 Carrier Cover 1 Frame 21 63808-0200 63808-0200 Applicator Core 1 22 63808-0196 63808-0196 Pneumatic Feed Assembly 1 Hardware 24 — — M2.5 x 4 SHCS 1* 25 — — M3 Flat Washer Hard 1* 26 — — M3 Inner Tooth Lock Washer 1* 27 — — M3 x 6 BHCS 2* 29 — — M3 x 12 SHCS 4* 30 — — M4 x 5 SSS 1* 31 — — M4 x 50 SHCS 2* 33 — — M5 x 12 Long Cup Point SSS 1*	16	63443-4703	63443-4703	Terminal Guide	1				
19 63808-0249 63808-0249 Feed Pawl 1 Frame Frame 21 63808-0200 Applicator Core 1 22 63808-0196 63808-0196 Pneumatic Feed Assembly 1 23 63808-0191 Track Assembly 1 Hardware 24 — — M2.5 x 4 SHCS 1* 25 — — M3 Flat Washer Hard 1* 26 — — M3 Inner Tooth Lock Washer 1* 27 — — M3 x 6 BHCS 2* 29 — — M4 x 5 SSS 1* 30 — — M4 x 5 SSS 1* 31 — — M4 x 50 SHCS 2* 32 — — M5 x 12 Long Cup Point SSS 1*	17	63443-7403	63443-7403	Hold Down Block	1				
Frame Frame 21 63808-0200 63808-0200 Applicator Core 1 22 63808-0196 63808-0196 Pneumatic Feed Assembly 1 23 63808-0191 Track Assembly 1 Hardware 24 — — M2.5 x 4 SHCS 1* 25 — — M3 Flat Washer Hard 1* 26 — — M3 Hex Nut 1* 27 — — M3 Inner Tooth Lock Washer 1* 28 — — M3 x 6 BHCS 2* 29 — — M3 x 12 SHCS 4* 30 — — M4 x 5 SSS 1* 31 — — M4 x 50 SHCS 2* 32 — — M5 x 12 SHCS 1* 34 — — M5 x 12 Long Cup Point SSS 1*	18	63808-0229	63808-0229	Bend Adjust Dial	1				
Frame 21 63808-0200 63808-0200 Applicator Core 1 22 63808-0196 63808-0196 Pneumatic Feed Assembly 1 Hardware 24 — — M2.5 x 4 SHCS 1* 25 — — M3 Flat Washer Hard 1* 26 — — M3 Hex Nut 1* 27 — — M3 Inner Tooth Lock Washer 1* 28 — — M3 x 6 BHCS 2* 29 — — M3 x 12 SHCS 4* 30 — — M4 x 5 SSS 1* 31 — — M4 x 6 SHCS 1* 32 — — M4 x 50 SHCS 2* 33 — — M5 x 12 SHCS 1* 34 — — M5 x 12 Long Cup Point SSS 1*	19	63808-0249	63808-0249	Feed Pawl	1				
21 63808-0200 63808-0200 Applicator Core 1 22 63808-0196 63808-0196 Pneumatic Feed Assembly 1 23 63808-0191 63808-0191 Track Assembly 1 Hardware 24 — — M2.5 x 4 SHCS 1* 25 — — M3 Flat Washer Hard 1* 26 — — M3 Hex Nut 1* 27 — — M3 Inner Tooth Lock Washer 1* 28 — — M3 x 6 BHCS 2* 29 — — M3 x 12 SHCS 4* 30 — — M4 x 5 SSS 1* 31 — — M4 x 5 SHCS 2* 32 — — M4 x 50 SHCS 2* 33 — — M5 x 12 Long Cup Point SSS 1*	20	63443-4603	63443-4603	Carrier Cover	1				
22 63808-0196 63808-0191 Pneumatic Feed Assembly 1 Hardware 24 — — M2.5 x 4 SHCS 1* 25 — — M3 Flat Washer Hard 1* 26 — — M3 Inner Tooth Lock Washer 1* 27 — — M3 Inner Tooth Lock Washer 1* 28 — — M3 x 6 BHCS 2* 29 — — M4 x 5 SSS 1* 30 — — M4 x 5 SSS 1* 31 — — M4 x 5 SHCS 2* 32 — — M4 x 50 SHCS 2* 33 — — M5 x 12 SHCS 1* 34 — — M5 x 12 Long Cup Point SSS 1*			Fra	ame					
23 63808-0191 Track Assembly 1 Hardware 24 — — M2.5 x 4 SHCS 1* 25 — — M3 Flat Washer Hard 1* 26 — — M3 Hex Nut 1* 27 — — M3 Inner Tooth Lock Washer 1* 28 — — M3 x 6 BHCS 2* 29 — — M3 x 12 SHCS 4* 30 — — M4 x 5 SSS 1* 31 — — M4 x 6 SHCS 1* 32 — — M4 x 50 SHCS 2* 33 — — M5 x 12 SHCS 1* 34 — — M5 x 12 Long Cup Point SSS 1*	21	63808-0200	63808-0200	Applicator Core	1				
Hardware 24 — — M2.5 x 4 SHCS 1* 25 — — M3 Flat Washer Hard 1* 26 — — M3 Hex Nut 1* 27 — — M3 Inner Tooth Lock Washer 1* 28 — — M3 x 6 BHCS 2* 29 — — M3 x 12 SHCS 4* 30 — — M4 x 5 SSS 1* 31 — — M4 x 6 SHCS 1* 32 — — M4 x 50 SHCS 2* 33 — — M5 x 12 SHCS 1* 34 — — M5 x 12 Long Cup Point SSS 1*	22	63808-0196	63808-0196	Pneumatic Feed Assembly	1				
24 — — M2.5 x 4 SHCS 1* 25 — — M3 Flat Washer Hard 1* 26 — — M3 Hex Nut 1* 27 — — M3 Inner Tooth Lock Washer 1* 28 — — M3 x 6 BHCS 2* 29 — — M3 x 12 SHCS 4* 30 — — M4 x 5 SSS 1* 31 — — M4 x 6 SHCS 1* 32 — — M4 x 50 SHCS 2* 33 — — M5 x 12 SHCS 1* 34 — — M5 x 12 Long Cup Point SSS 1*	23	63808-0191	63808-0191	Track Assembly	1				
25 — — M3 Flat Washer Hard 1* 26 — — M3 Hex Nut 1* 27 — — M3 Inner Tooth Lock Washer 1* 28 — — M3 x 6 BHCS 2* 29 — — M3 x 12 SHCS 4* 30 — — M4 x 5 SSS 1* 31 — — M4 x 6 SHCS 1* 32 — — M4 x 50 SHCS 2* 33 — — M5 x 12 SHCS 1* 34 — — M5 x 12 Long Cup Point SSS 1*									
26 — — M3 Hex Nut 1* 27 — — M3 Inner Tooth Lock Washer 1* 28 — — M3 x 6 BHCS 2* 29 — — M3 x 12 SHCS 4* 30 — — M4 x 5 SSS 1* 31 — — M4 x 6 SHCS 1* 32 — — M4 x 50 SHCS 2* 33 — — M5 x 12 SHCS 1* 34 — — M5 x 12 Long Cup Point SSS 1*	24	_	_	M2.5 x 4 SHCS	1*				
27 — — M3 Inner Tooth Lock Washer 1* 28 — — M3 x 6 BHCS 2* 29 — — M3 x 12 SHCS 4* 30 — — M4 x 5 SSS 1* 31 — — M4 x 6 SHCS 1* 32 — — M4 x 50 SHCS 2* 33 — — M5 x 12 SHCS 1* 34 — — M5 x 12 Long Cup Point SSS 1*	25	_	_	M3 Flat Washer Hard	1*				
28 — — M3 x 6 BHCS 2* 29 — — M3 x 12 SHCS 4* 30 — — M4 x 5 SSS 1* 31 — — M4 x 6 SHCS 1* 32 — — M4 x 50 SHCS 2* 33 — — M5 x 12 SHCS 1* 34 — — M5 x 12 Long Cup Point SSS 1*	26	_		M3 Hex Nut	1*				
29 — — M3 x 12 SHCS 4* 30 — — M4 x 5 SSS 1* 31 — — M4 x 6 SHCS 1* 32 — — M4 x 50 SHCS 2* 33 — — M5 x 12 SHCS 1* 34 — — M5 x 12 Long Cup Point SSS 1*	27	_	_	M3 Inner Tooth Lock Washer	1*				
30 M4 x 5 SSS 1* 31 M4 x 6 SHCS 1* 32 M4 x 50 SHCS 2* 33 M5 x 12 SHCS 1* 34 - M5 x 12 Long Cup Point SSS 1*	28	_	_	M3 x 6 BHCS	2*				
31 — — M4 x 6 SHCS 1* 32 — — M4 x 50 SHCS 2* 33 — — M5 x 12 SHCS 1* 34 — — M5 x 12 Long Cup Point SSS 1*	29	_	_	M3 x 12 SHCS	4*				
31 — — M4 x 6 SHCS 1* 32 — — M4 x 50 SHCS 2* 33 — — M5 x 12 SHCS 1* 34 — — M5 x 12 Long Cup Point SSS 1*	30	_	_	M4 x 5 SSS	1*				
32 — — M4 x 50 SHCS 2* 33 — — M5 x 12 SHCS 1* 34 — — M5 x 12 Long Cup Point SSS 1*	31	_	_		1*				
33 — — M5 x 12 SHCS 1* 34 — M5 x 12 Long Cup Point SSS 1*	32	_	_		2*				
	33	_	_		1*				
	34	_	_	M5 x 12 Long Cup Point SSS	1*				
	35	_	_	M5 Hex Jam Nut	1*				

 $[\]mbox{*Fastener}$ parts can be purchased through most industrial suppliers by using the description in the table above.

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ASSEMBLY DRAWING



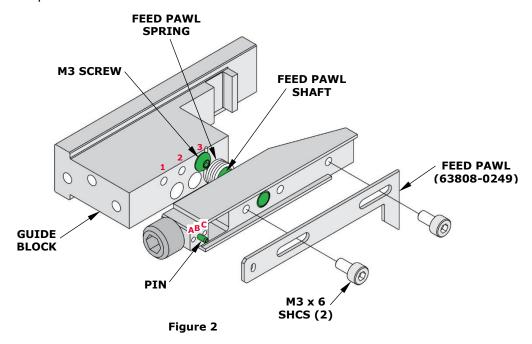
Doc. No: 638082210 Release Date: 10-01-21 **UNCONTROLLED COPY** Page 5 of 8 Revision: B Revision Date: 07-07-22

FACTORY SETTINGS

Feed Pawl Assembly

The FA2 applicator number 63808-2210 ships with the following factory settings. See Figure 2:

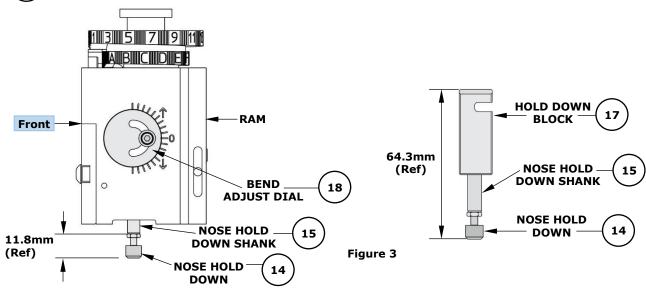
- The feed pawl shaft and M3 screw that holds the feed pawl spring are in position 3.
- The pin is in position B.



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

Indicates item number on the Parts List and Assembly Drawing

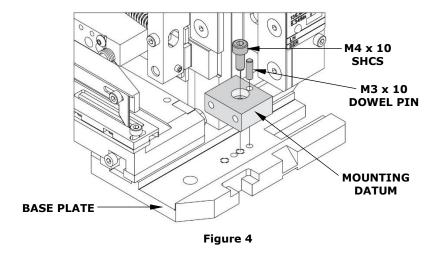


Note: The above dimensions were measured during setup and are included as a reference only. Additional adjustments may be required before crimping for production.

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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.

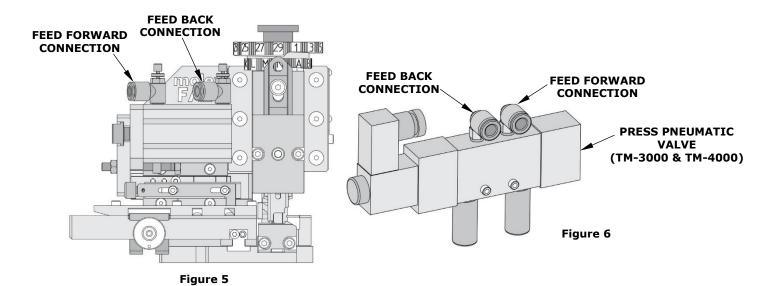


PNEUMATIC CONNECTION (AIR FEED)

- The pneumatic feed applicator uses a double-acting air cylinder that must be actuated by a 4-way pneumatic valve.
- The air cylinder is equipped with push-in fittings for 6mm diameter vinyl or Nylon tube. Adapters are included for ¼" diameter and 4mm diameter vinyl or Nylon tube.

Note: The TM-3000 and TM-4000 presses have pneumatic valves with $\frac{1}{4}$ " diameter tube fittings. Be sure to install the $\frac{1}{4}$ " diameter adapters in the air cylinder fittings and use $\frac{1}{4}$ " diameter vinyl or Nylon tube.

- Pneumatic tubes must be connected as shown in Figure 5. Tubes are typically connected so the terminal feed is forward when the applicator ram is up.
- When using the TM-3000 or TM-4000 presses, connect the tubes to the press pneumatic valve as shown in Figure 6.



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FA2 Pneumatic Feed Crimp Applicator for CTX50 Sealed Large Receptacle Crimp Terminals

Application Tooling Support

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