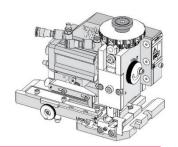
Order Number 63808-6910







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
- This applicator was designed for use in a wire processor only
- This applicator is configured with a pneumatic feed, which requires a 4-way pneumatic valve for operation

SCOPE

Products: CTX280 VS Grip Receptacle Wire Seal, 1.00mm², 0.75mm² and 0.50mm² wire.

Terminal Series No.	Terminal Order No.		Wire		Insulation Diameter		Strip Length	
			Wire Type	Size	mm	In.	mm	In.
34808	34808-1001 34808-1041 34808-1061 34808-1071 34808-1101 34808-2001	34808-2009 34808-2017 34808-2025 34808-2050 34808-2150		1.00mm ²				
34865	34865-1001 34865-1041	34865-1061 34865-1101	T3-ZHID	0.75mm ² 0.50mm ²	1.40-1.95	.055077	4.30-4.80	.169189
98675	98675-1001 98675-1011 98675-1041 98675-1051	98675-1061 98675-1101 98675-1111 98675-2050						
208528	208528-1061	208528-2050						
34808	34808-1041 34808-1101 34808-2001	34808-2009 34808-2017 34808-2025	FLRY-A	1.00mm²	1.40-1.95	.055077	4.30-4.80	.169189
34865	34865-1041	34865-1101						
98675	98675-1041 98675-1051	98675-1101 98675-1111						

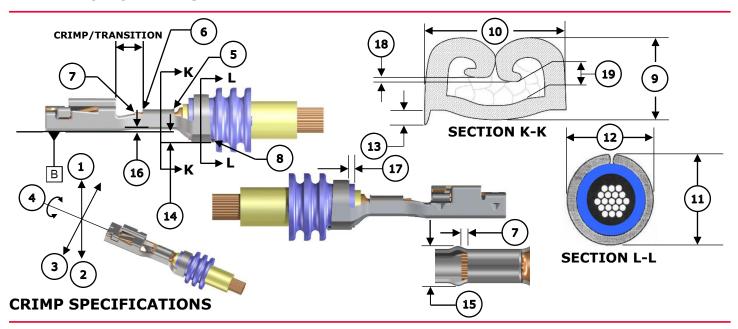
CAUTION: This applicator was designed for use in a wire processor only.

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-98675-002 Revision F5:

Feature	Requirement							
1. Bend Up	1º Max							
2. Bend Down	1° Max							
3. Twist	2° Max							
4. Roll	3° Max							
5. Bell Mouth Rear	0.40-0.60mm (.016024")							
6. Bell Mouth Front	Not Applicable							
7. Conductor Brush	0.20-0.60mm (.008024")							
8. Cut-Off Tab	0.30mm (.012") Max							
or car on rab	Wire Type	Wire Size	10. Crimp Width					
	Wile Type	1.00mm ²	1.17-1.23mm	np Height .046048 in.	1.97-2.17mm	.078085 in.		
Conductor Crimp	T3-ZHID	0.75mm ²	1.08-1.18mm	.043046 in.				
conductor crimp		0.50mm ²	1.07-1.13mm	.042044 in.				
	FLRY-A	1.00mm ²	1.23-1.29mm	.048051 in.				
	Wire Type	Wire Size		mp Height	12. Crim	n Width		
	Time Type	1.00mm ²	4.50-4.70mm	.177185 in.		.193201 in.		
Insulation Crimp	T3-ZHID	0.75mm ²	4.40-4.60mm	.173181 in.	4.90-5.10mm			
		0.50mm ²	4.30-4.50mm	.169177 in.				
	FLRY-A	1.00mm ²	4.50-4.70mm	.177185 in.	1			
	Wire Type	Wire Size		um Force				
	111101750	1.00mm ²	115 N	25.9 lb.	To be measured with no influen from the insulation crimp.			
Pull Force	T3-ZHID	0.75mm ²	90 N	20.3 lb.				
		0.50mm ²	70 N	15.8 lb.	from the insu	lation crimp.		
	FLRY-A	0.50mm ² 1.00mm ²	70 N 120 N	15.8 lb. 27.0 lb.	from the insu	lation crimp.		
	FLRY-A 0.10mm (.004	1.00mm ²	70 N 120 N	15.8 lb. 27.0 lb.	from the insu	lation crimp.		
13. Conductor Anvil Flash	0.10mm (.004	1.00mm ² 4") Max			from the insu	lation crimp.		
13. Conductor Anvil Flash 14. Insulation Grip Step	0.10mm (.004 1.20-1.40mm	1.00mm ² 4") Max (.047055")	120 N	27.0 lb.	from the insu	lation crimp.		
13. Conductor Anvil Flash 14. Insulation Grip Step 15. Crimp Bulge	0.10mm (.004 1.20-1.40mm 4.15mm (.163	1.00mm ² 4") Max (.047055") 3") Max within	120 N crimp/transition a	27.0 lb.	from the insu	lation crimp.		
13. Conductor Anvil Flash 14. Insulation Grip Step	0.10mm (.004 1.20-1.40mm 4.15mm (.163 0.05-0.25mm	1.00mm ² 4") Max (.047055") 3") Max within (120 N crimp/transition a	27.0 lb.		lation crimp. Wire Seal No.		
13. Conductor Anvil Flash 14. Insulation Grip Step 15. Crimp Bulge	0.10mm (.00- 1.20-1.40mm 4.15mm (.16- 0.05-0.25mm Wire Type	1.00mm ² 4") Max (.047055") 3") Max within (.002010") A Wire Size 1.00mm ² 0.75mm ² 0.50mm ²	120 N crimp/transition a	27.0 lb.				
13. Conductor Anvil Flash 14. Insulation Grip Step 15. Crimp Bulge 16. Conductor Grip Step	0.10mm (.00- 1.20-1.40mm 4.15mm (.16: 0.05-0.25mm Wire Type	1.00mm ² 4") Max (.047055") 3") Max within (.002010") A Wire Size 1.00mm ² 0.75mm ²	120 N crimp/transition a Above Datum B 17. Wire Seal P	27.0 lb. rea Position (Terminal)	Wire Seal Color Red	Wire Seal No. 64325-1332		
13. Conductor Anvil Flash 14. Insulation Grip Step 15. Crimp Bulge	0.10mm (.00- 1.20-1.40mm 4.15mm (.16- 0.05-0.25mm Wire Type	1.00mm ² 4") Max (.047055") 3") Max within (.002010") A Wire Size 1.00mm ² 0.75mm ² 0.50mm ² 1.00mm ²	120 N crimp/transition above Datum B 17. Wire Seal P 1.10-2.50mm	27.0 lb. rea Position (Terminal) .043098 in. Dissymmetry	Wire Seal Color Red 19. Space Betw and Crimp	Wire Seal No. 64325-1332 een Wing Tips		
13. Conductor Anvil Flash 14. Insulation Grip Step 15. Crimp Bulge 16. Conductor Grip Step	0.10mm (.00- 1.20-1.40mm 4.15mm (.16- 0.05-0.25mm Wire Type T3-ZHID	1.00mm ² 4") Max (.047055") 3") Max within (.002010") A Wire Size 1.00mm ² 0.75mm ² 0.50mm ² 1.00mm ² Wire Size 1.00mm ²	120 N crimp/transition above Datum B 17. Wire Seal P 1.10-2.50mm 18. Wing 0.00-0.32mm	27.0 lb. rea Position (Terminal) .043098 in. Dissymmetry .000013 in.	Wire Seal Color Red 19. Space Betw and Crimp 0.16-2.00mm	Wire Seal No. 64325-1332 een Wing Tips b Bottom .006079 in.		
13. Conductor Anvil Flash 14. Insulation Grip Step 15. Crimp Bulge 16. Conductor Grip Step	0.10mm (.00- 1.20-1.40mm 4.15mm (.16- 0.05-0.25mm Wire Type T3-ZHID	1.00mm ² 4") Max 1 (.047055") 3") Max within of (.002010") A Wire Size 1.00mm ² 0.75mm ² 1.00mm ² Wire Size 1.00mm ² 1.00mm ² 0.75mm ² 0.50mm ² 1.00mm ²	120 N crimp/transition above Datum B 17. Wire Seal P 1.10-2.50mm 18. Wing 0.00-0.32mm 0.00-0.32mm	27.0 lb. 27.0 lb. 20sition (Terminal) .043098 in. 2000013 in000013 in.	Wire Seal Color Red 19. Space Betw and Crim; 0.16-2.00mm 0.16-2.00mm	Wire Seal No. 64325-1332 een Wing Tips b Bottom .006079 in006079 in.		
13. Conductor Anvil Flash 14. Insulation Grip Step 15. Crimp Bulge 16. Conductor Grip Step	0.10mm (.00- 1.20-1.40mm 4.15mm (.16: 0.05-0.25mm Wire Type T3-ZHID FLRY-A Wire Type	1.00mm ² 4") Max (.047055") 3") Max within (.002010") A Wire Size 1.00mm ² 0.75mm ² 0.50mm ² 1.00mm ² Wire Size 1.00mm ²	120 N crimp/transition above Datum B 17. Wire Seal P 1.10-2.50mm 18. Wing 0.00-0.32mm	27.0 lb. rea Position (Terminal) .043098 in. Dissymmetry .000013 in.	Wire Seal Color Red 19. Space Betw and Crimp 0.16-2.00mm	Wire Seal No. 64325-1332 een Wing Tips b Bottom .006079 in.		

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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.
- 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.

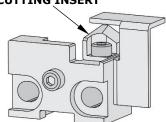
CAUTION: To prevent injury, never operate this applicator without the quards supplied with the press or wireprocessing machine in place. Reference the press or wire processing manufacturer's instruction manual.

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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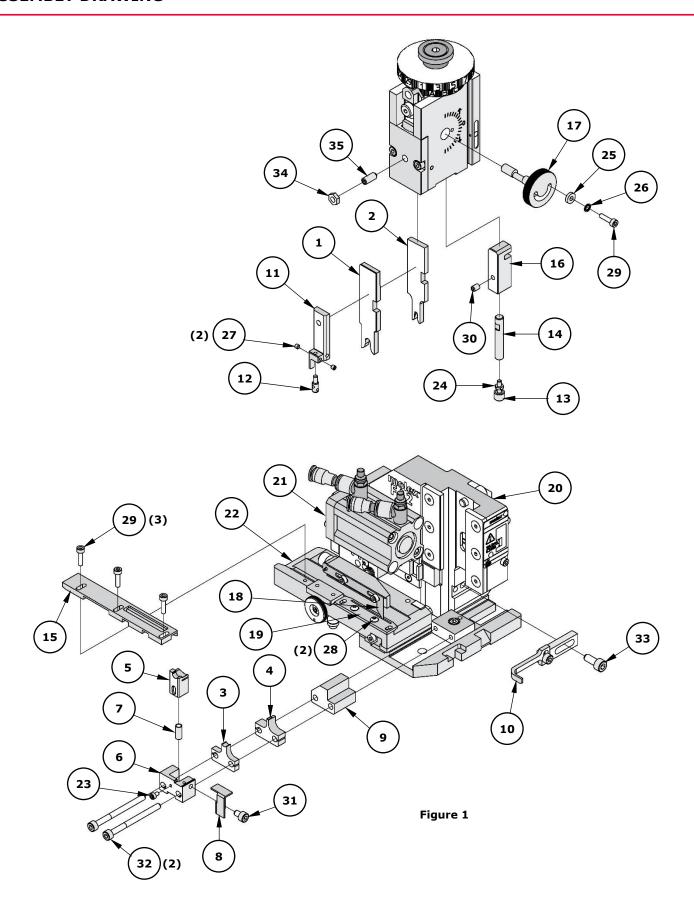
PARTS LIST

Applicator 63808-6910									
Item	Order No.	Engineering No.	Description	Quantity					
Perishable Tooling									
	63808-6970	63808-6970	Tool Kit (All "Y" Items)	Ref					
1	63454-0111	63454-0111	Insulation Punch	1 Y					
2	63457-2006	63457-2006	Conductor Punch	1 Y					
3	63456-4901	63456-4901	Insulation Anvil	1 Y					
4	63455-2002	63455-2002	Conductor Anvil	1 Y					
5	63443-0142	63443-0142	Cut-Off Plunger	1 Y					
	Non-Perishable Components								
6	63443-0135	63443-0135	Front Plunger Retainer	1					
7	63700-0992	63700-0992	Cut-Off Plunger Spring	1					
8	63443-0117	63443-0117	Front Scrap Chute	1					
9	63443-7522	63443-7522	Anvil Mount	1					
10	63443-0090	63443-0090	Wire Stop Assembly	1					
11	63443-3601	63443-3601	Front Plunger Striker	1					
12	63443-3702	63443-3702	Wire Hold Down Plunger	1					
13	63600-5776	63600-5776	Nose Hold Down	1					
14	63600-5775	63600-5775	Nose Hold Down Shank	1					
15	63443-4757	63443-4757	Terminal Guide	1					
16	63808-0220	63808-0220	Hold Down Block	1					
17	63808-0229	63808-0229	Bend Adjust Dial	1					
18	63443-1230	63443-1230	Feed Pawl	1					
19	63443-4603	63443-4603	Carrier Cover	1					
		Fr	ame						
20	63808-0200	63808-0200	Applicator Core	1					
21	63808-0196	63808-0196	Pneumatic Feed Assembly	1					
22	63808-0191	63808-0191	Track Assembly	1					
		Hard	dware						
23	_	_	M2.5 x 4 SHCS	1*					
24	_	_	M3 Hex Nut	1*					
25	_	_	M3 Flat Washer Hard	1*					
26		_	M3 Inner Tooth Lock Washer	1*					
27		_	M3 x 3 SSS	2*					
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	_	_	#10-32 Hex Jam Nut	1*					
35	_	_	#10-32 by 3/8"Long Flat Point SSS	1*					

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

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ASSEMBLY DRAWING



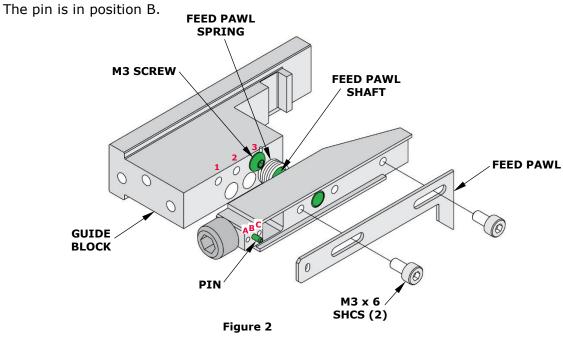
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FACTORY SETTINGS

Feed Pawl Assembly

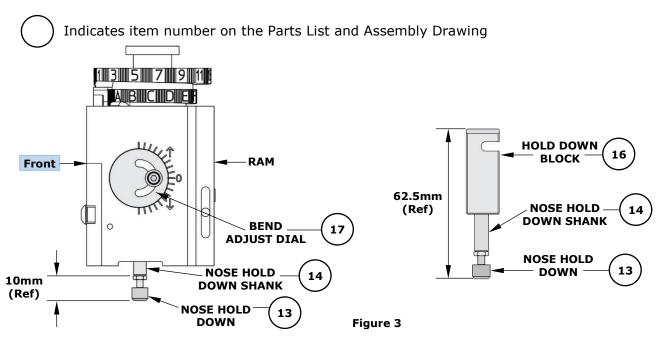
The FA2 applicator number 63808-6910 ships with the following factory settings. See Figure 2:

• 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.

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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.

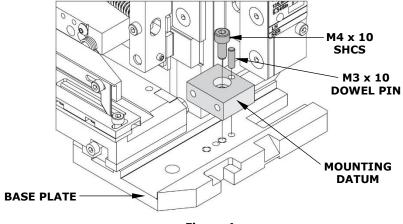


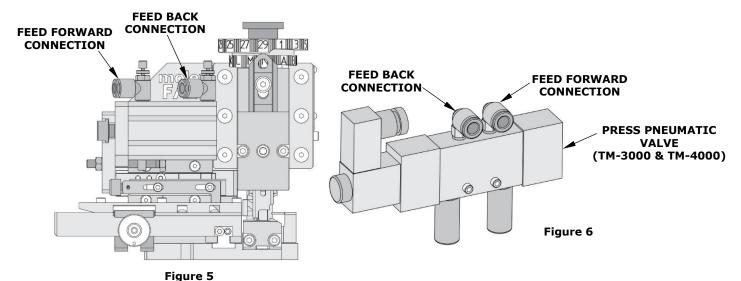
Figure 4

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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Application Tooling Support

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

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