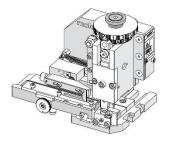
Order Number 63808-2400





Application Tooling Specification

FEATURES

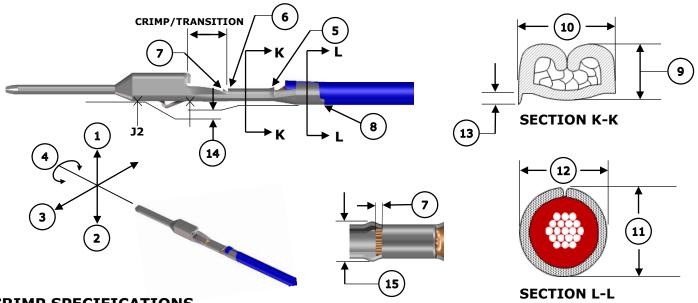
- Applicator designed to industry-standard mounting and 135.80mm (5.346") shut height
- Quick setup time; plus, the crimp height, track and feed adjustments can be set without removing the applicator from the press
- Fine adjustment allows users to achieve target with little effort by adjusting in increments of .015mm (.0006") for conductor crimp height and .025mm (.001") for insulation height
- Fine adjustment of the bend is achieved using the bend control 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: MX150 ISO (M3) Blade Terminals: 0.35mm² and 0.50mm² type ISO wire.

Terminal Series No.	Terminal Order No.	Wire Type and Size		Insulation Diameter		Strip Length	
		Туре	mm²	mm	In.	mm	In.
33000 33011 34781	33000-1004, 33011-0008, 33011-3004, 34781-1004	PSA FTP 00949_10_00766	0.35	1.20-1.40	.047055	4.70-5.60	.185220
		PSA FTP 00949_10_00767	0.50	1.40-1.70	.055067	4.70-5.60	.185220
		TZ3HID	0.35	1.20-1.40	.047055	4.70-5.60	.185220
		FLR91X-A-XLPO	0.50	1.40-1.70	.055067	4.70-5.60	.185220

DEFINITION OF TERMS



CRIMP SPECIFICATIONS

The following crimp specifications are based on document AS-33000-001 Rev E:

Feature	Requirement							
1. Bend Up	1.5° Max							
2. Bend Down	1.5° Max							
3. Twist	3° Max							
4. Roll	3° Max							
5. Rear Bell Mouth	0.30-0.70mm (.012028")							
6. Front Bell Mouth	Not Applicable							
	0.50mm (.020") Max							
7. Cut-Off Tab	No Burr							
8. Conductor Brush	0.40mm (.016") Max							
8. Conductor Brush	Not to extend above conductor crimp/transition height							
	Wire Type	Wire Size	Crimp Height					
	PSA FTP 00949_10_00766	0.35mm ²	1.05-1.11mm	.041043 in.				
9. Conductor Crimp Height	PSA FTP 00949_10_00767	0.50mm ²	1.10-1.20mm	.043047 in.				
	TZ3HID FLR91X-A-XLPO	0.35mm ²	1.02-1.08mm	.040042 in.				
		0.50mm ²	1.05-1.15mm	.041045 in.				
10. Conductor Crimp Width 1.50-1.70mm (.059067")								
	Wire Type	Wire Size	Minimum Force					
	PSA FTP 00949_10_00766	0.35mm ²	60 N 13.5 lb.	To be measured with				
Pull Force	PSA FTP 00949_10_00767	0.50mm ²	70 N 15.7 lb.	no influence from the				
	TZ3HID FLR91X-A-XLPO	0.35mm ²	50 N 11.3 lb.	insulation crimp.				
		0.50mm ²	75 N 16.9 lb.	insulation enimp.				
	Wire Type	Wire Size	Crimp Height					
	PSA FTP 00949_10_00766	0.35mm ²	1.65-1.85mm	.065073 in.				
11. Insulation Crimp Height	PSA FTP 00949_10_00767	0.50mm ²	1.80-2.00mm	.071079 in.				
	TZ3HID FLR91X-A-XLPO	0.35mm ²	1.65-1.85mm	.065073 in.				
	123HID FLR91A-A-ALFO	0.50mm ²	1.80-2.00mm	.071079 in.				
12. Insulation Crimp Width								
13. Conductor Anvil Flash	Conductor Anvil Flash 0.1mm (.004") Max							
14. Insulation Grip Step 0.15±0.30mm (.006±.008")								
15. Crimp Bulge 2.55mm (.100") Max within the crimp/transition area								

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

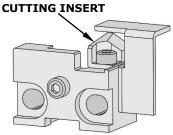
- 1. Molex recommends that an extra perishable tooling kit be maintained at your facility.
- 2. Verify tooling alignment by hand cycling the press and applicator before crimping under power. Check that all screws are tight.
- 3. Slugs, terminals, dirt and oil should be kept clear of the work area.
- 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 guards supplied with the press or wire-processing machine in place. Reference the press or wire processing manufacturer's instruction manual.

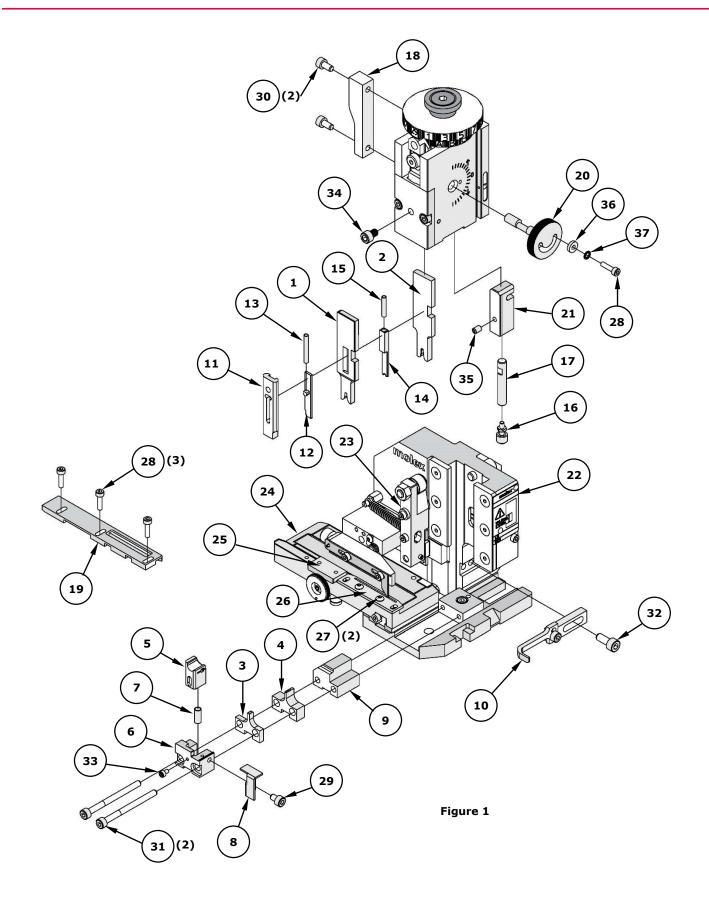
CAUTION: Molex tooling crimp specifications are valid only when used with Molex terminals and tooling manufactured by Molex and sold by Molex or authorized distributors ("Molex Tooling"). When using tooling other than Molex Tooling with Molex-specific connector systems listed in our ATS documents, the 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 63808-2400						
Item	Order No.	Engineering No.	Description	Quantity			
		Perishal	ble Tooling				
	63808-2470	63808-2470	Tool Kit (All "Y" Items)	REF			
1	63454-0114	63454-0114	Insulation Punch	1 Y			
2	63457-1502	63457-1502	Conductor Punch	1 Y			
3	63456-0078	63456-0078	Insulation Anvil	1 Y			
4	63455-0096	63455-0096	Conductor Anvil	1 Y			
5	63443-0034	63443-0034	Cut-Off Plunger	1 Y			
			omponents				
6	63443-0128	63443-0128	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	63443-7501	63443-7501	Anvil Mount	1			
10	63443-0090	63443-0090	Wire Stop	1			
11	63443-2804	63443-2804	Front Plunger Striker	1			
12	63443-2915	63443-2915	Wire Hold Down Plunger	1			
13	63600-0021	63600-0021	Wire Hold Down Spring	1			
14	63443-3204	63443-3204	Conductor Hold Down Plunger	1			
15	63600-5016	63600-5016	Conductor Hold Down Spring	1			
16	63600-5776	63600-5776	Nose Hold Down	1			
17	63600-5775	63600-5775	Nose Hold Down Shank	1			
18	63443-4404	63443-4404	Feed Cam	1			
19	63443-4716	63443-4716	Terminal Guide	1			
20	63808-0229	63808-0229	Bend Adjust Dial	1			
21	63808-0220	63808-0220	Hold Down Block	1			
			ame				
22	63808-0200	63808-0200	Applicator Core	1			
23	63808-0197	63808-0197	Mechanical Feed	1			
24	63443-4601	63443-4601	Track	1			
25	63443-4801	63443-4801	Drag Pad	1			
26	63443-4602	63443-4602	Carrier Cover	1			
20	00110 1002		dware	-			
27	_		M3 by 6 Long BHCS	2*			
28	_	_	M3 by 12 Long SHCS	4*			
29	_			1*			
30	_	— M4 by 6 Long SHCS — M4 by 8 Long SHCS		2*			
31	_	— — M4 by 8 Long SHCS		2*			
32	_			1*			
33	_	_	M2.5 by 4 Long SHCS	1*			
34	_	_	#10-32UNF by .25" Long SHCS	1*			
35	_	_	M4 by 6 Long Set Screw	1*			
36	_	— — M3 Flat V		1*			
37	_	_	M3 Inner Tooth Lock Washer	1*			
5,	۱ ب	A	dustrial supply company.	±			

ASSEMBLY DRAWING

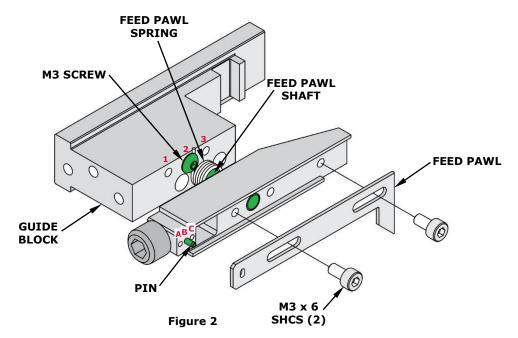


FACTORY SETTINGS

Feed Pawl Assembly

The FA2 applicator number 63808-2400 ships with the following factory settings. See Figure 2:

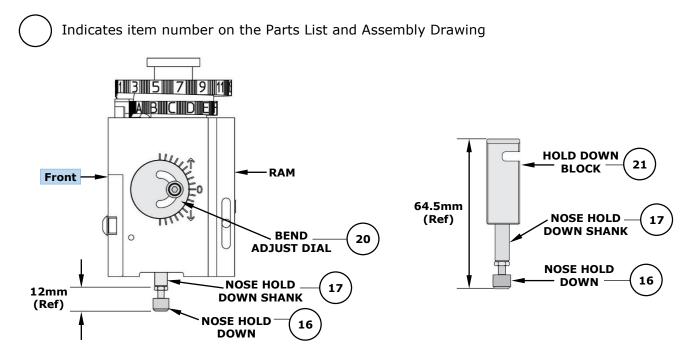
- The feed pawl shaft and M3 screw that holds the feed pawl spring are in position 2.
- The pin is in position B.



This information is included as a reference only. 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



FA2 Crimp Applicator for MX150 ISO (M3) Blade Terminals

Application Tooling Support

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

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