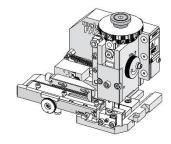
Order Number 63808-3100





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

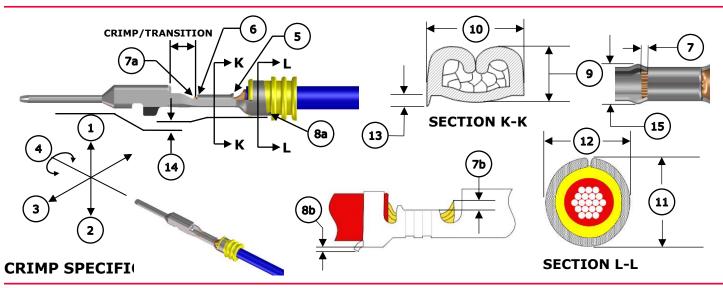
Products: MX150 22 Grip Blade Wire Seal Terminals: 22 AWG, 0.35mm² and 0.50mm² Wire.

Terminal Series No.	Terminal Order No.	Wire		Insulation Diameter		Strip Length	
		Wire Type	Size	mm	In.	mm	In.
		TXL	22 AWG	1.20-1.70	047 067	4.70-5.60	.185220
34080 34783		AVSS	0.50mm ²				
		M1L-126A1	0.50mm ²				
		FLR91X-A XLPO	0.50mm ²		.047067		
		FLR2XA3ZH	0.35mm ²				
		FLR91X-A XLPO	0.35mm ²				

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

CAUTION: Lubrication must be used to prevent terminals from sticking in the conductor punch. Use 63801-7240 oiler or equivalent.

DEFINITION OF TERMS



The following crimp specifications are based on document AS-34080-001 Rev. B2:

Feature	Requirement							
1. Bend Up	3° Max							
2. Bend Down	3° Max							
3. Twist	wist 3° Max							
4. Roll	3° Max							
5. Bell Mouth Rear	0.30-0.70mm (.012028")							
6. Bell Mouth Front	Not Applicable	-	-					
7. Conductor Brush a. 0.40mm (.01		.6") Max	') Max b. 0.40mm (.016") Max above conductor crimp					
8. Cut-Off Tab	a. 0.50mm (.02	20") Max	b.	0.30mm (.012")	Max curl			
	Wire Type	Wire Size		9. Crimp	Height	10. Crimp Width		
	TXL	22 AWG		0.95-1.05mm	.037041 in.	1.50-1.70mm	.059067 in.	
	AVSS	0.50mm ²		1.05-1.15mm	.041045 in.	1.50-1.70mm	.059067 in.	
Conductor Crimp	M1L-126A1	0.50mm ²		1.05-1.15mm	.041045 in.	1.50-1.70mm	.059067 in.	
	FLR91X-A XLPO			1.05-1.15mm	.041045 in.	1.50-1.70mm	.059067 in.	
	FLR2XA3ZH	0.35mm ²		1.01-1.07mm	.040042 in.	1.50-1.70mm	.059067 in.	
	FLR91X-A XLPO	0.35mm ²		1.01-1.07mm	.040042 in.	1.50-1.70mm	.059067 in.	
	Wire Type	Wire Size		11. Crimp Height		12. Crimp Width		
	TXL	22 AWG						
	AVSS	0.50mm ²	² 3 40-3 60mm		.134142 in.	3.35-3.55mm	.132140 in.	
Insulation Crimp	M1L-126A1	0.50mm ²						
	FLR91X-A XLPO	0.50mm ²						
	FLR2XA3ZH	0.35mm ²	2					
	FLR91X-A XLPO	0.35mm ²	2					
	Wire Type	Wire Size	e	Minimum Force				
	TXL	22 AWG	i	50 N	11.3 lb.			
	AVSS	0.50mm ²	2	75 N	16.9 lb.]		
Pull Force	M1L-126A1	0.50mm ²			To be measure	To be measured with no influence		
	FLR91X-A XLPO	0.50mm ²	2	75 N	16.9 lb.	from the in	sulation crimp.	
	FLR2XA3ZH	0.35mm ²	2	50 N	11.3 lb.			
	FLR91X-A XLPO	0.35mm ²		50 N	11.3 lb.			

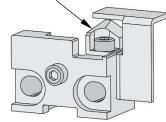
13. Conductor Anvil Flash	0.10mm (.004″) Max and m	ust not exte	nd below low	est point of cor	nductor crimp			
14. Insulation Grip Step	0.45-0.65mm (45-0.65mm (.018026")							
15. Crimp Bulge	2.65mm (.104"	.65mm (.104") Max within crimp/transition area							
Misc.	Wire Type	Wire Size	Wire Seal Position on Terminal (Min)		Wire Seal Position on Wire (Ref)		Wire Seal Color	Wire Seal No.	
	TXL AVSS	22 AWG 0.50mm ²	1.10mm		0.20-0.40mm	.008016 in.	Pink	E-1644-01	
	M1L-126A1	0.50mm ²		.043 in.					
	FLR91X-A XLPO FLR2XA3ZH	0.50mm ² 0.35mm ²							
	FLR91X-A XLPO	0.35mm ²							

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



CUTTING INSERT

- 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 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.

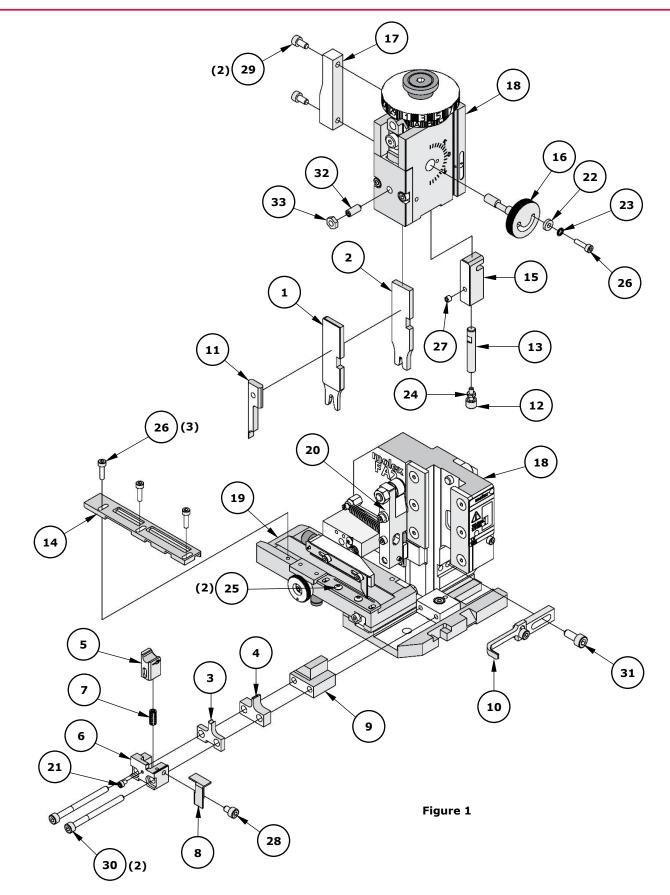
CAUTION: To prevent injury, never operate this applicator without the guards supplied with the press or wire-processing machine in place. Reference the press or wire processing manufacturer's instruction manual.

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

FA2 Applicator 63808-3100							
Item	Order No.	Engineering No.	Description	Quantity			
	l		ole Tooling				
	63808-3170	63808-3170	Tool Kit (All "Y" Items)	Ref			
1	63454-3301	63454-3301	Insulation Punch	1 Y			
2	63457-1605	63457-1605	Conductor Punch	1 Y			
3	63456-3305	63456-3305	Insulation Anvil	1 Y			
4	63455-1603	63455-1603	Conductor Anvil	1 Y			
5	63443-0034	63443-0034	Front Plunger	1 Y			
		Non-Perishab	le Components				
6	63443-0128	63443-0128	Front Plunger Retainer	1			
7	63700-0539	63700-0539	Cut-Off Plunger Spring	1			
8	63443-0117	63443-0117	Front Scrap Chute	1			
9	63443-7507	63443-7507	Anvil Mount	1			
10	63443-0090	63443-0090	Wire Stop	1			
11	63890-0009	63890-0009	Front Plunger Striker	1			
12	63600-5776	63600-5776	Nose Hold Down	1			
13	63600-5775	63600-5775	Nose Hold Down Shank	1			
14	63443-4759	63443-4759	Terminal Guide	1			
15	63443-7403	63443-7403	Hold Down Block	1			
16	63808-0229	63808-0229	Bend Adjust Dial	1			
17	63443-4412	63443-4412	Feed Cam	1			
		Fr	ame				
18	63808-0200	63808-0200	Applicator Core	1			
19	63808-0190	63808-0190	Track Assembly	1			
20	63808-0197	63808-0197	Mechanical Feed Assembly	1			
		Har	dware				
21	_	_	M2.5 x 4 SHCS	1*			
22	_	_	M3 Flat Washer Hard	1*			
23	_	-	M3 Inner Tooth Lock Washer	1*			
24	_	_	M3 Hex Nut	1*			
25			M3 x 6 BHCS	2*			
26		_	M3 x 12 SHCS	4*			
27		_	M4 x 4 SSS	1*			
28	_	_	M4 x 6 SHCS	1*			
29	_	_	M4 x 8 SHCS	2*			
30	_	_	M4 x 50 SHCS	2*			
31	_	_	M5 x 12 SHCS	1*			
32	_		M5 x 10 Long Cup Point SSS	1*			
33			M5 Hex Jam Nut	1*			
55	istener parts ca			1			

ASSEMBLY DRAWING

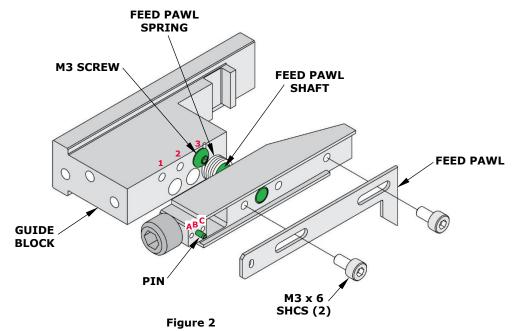


FACTORY SETTINGS

Feed Pawl Assembly

The FA2 applicator number 63808-3100 ships with the following factory settings. See Figure 2:

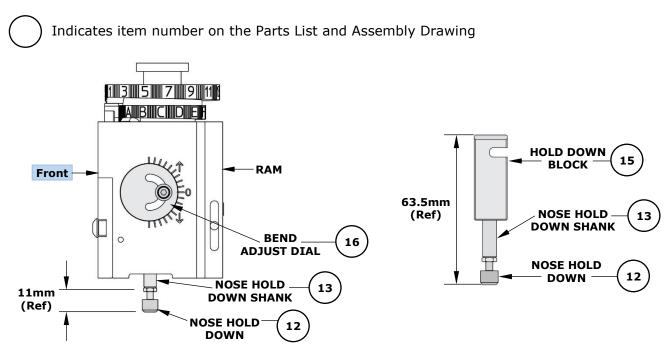
- The feed pawl shaft and M3 screw that holds the feed pawl spring are in position 3.
- The pin is in position B.



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 22 Grip Wire Seal Blade Terminals

Application Tooling Support

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

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