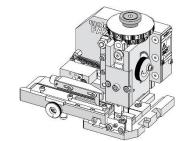
Order Number 63808-2600





Application Tooling Specification

FEATURES

- Applicator designed to industry-standard mounting and 135.80mm (5.346") shut height
- Ouick 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
- Crimped terminal checking aid (63808-2008) can be ordered separately

SCOPE

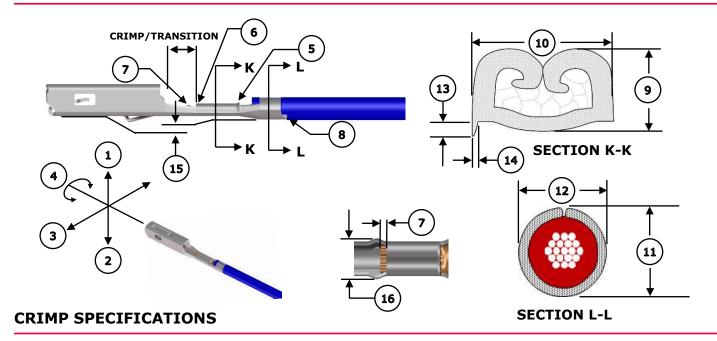
Products: MX150 18 Grip Receptacle for 20 AWG and 0.75mm² wire.

Terminal	Terminal Order No.	Wire	Insulation	n Diameter	Strip Length		
Series No.		Wire Type	Wire Size	mm	In.	mm	In.
33001 33012 34750	33001-3004	GXL	20 AWG	1.60-2.54	.063100	4.70-5.60	.185220
	33001-5002	HIFLON	20 AWG	1.60-2.54	.063100	4.70-5.60	.185220
	33012-3002	TXL	20 AWG	1.60-2.54	.063100	4.70-5.60	.185220
	34750-1002	EXRAD BLOCKED	0.75 mm ²	1.60-2.54	.063100	4.70-5.60	.185220
	33012-3022	PSA FTP 00949_10_00768	0.75 mm ²	1.60-2.54	.063100	4.70-5.60	.185220
	33012-5022	FLR91X-A-XLPO	0.75 mm²	1.60-2.54	.063100	4.70-5.60	.185220
	33001-3022						
	33001-5022						

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DEFINITION OF TERMS



The following crimp specifications are based on document AS-33012-002 Rev. E:

Feature	Requirement						
1. Bend Up	3° Max						
2. Bend Down	3° Max						
3. Twist	3° Max						
4. Roll	3° Max						
5. Bell Mouth Rear	0.30-0.70mm (.012028")						
6. Bell Mouth Front	Not Applicable						
7. Conductor Brush	0.40mm (.016") Not to extend above conductor crimp						
8. Cut-Off Tab	0.50mm (.020") Max						
	Wire Type	Wire Size	9. Crim	Height	10. Crimp Width		
	GXL	20 AWG	1.10-1.20mm	.043047 in.	2.05-2.25mm	.081089 in.	
	HIFLON	20 AWG	1.10-1.20mm	.043047 in.	2.05-2.25mm	.081089 in.	
Conductor Crimp	TXL	20 AWG	1.10-1.20mm	.043047 in.	2.05-2.25mm	.081089 in.	
	EXRAD BLOCKED	0.75 mm ²	1.10-1.20mm	.043047 in.	2.05-2.25mm	.081089 in.	
	PSA FTP 00949_10_00768	0.75 mm ²	1.25-1.35mm	.049053 in.	2.05-2.25mm	.081089 in.	
	FLR91X-A-XLPO M1L-126A1 EXRAD UNBLOCKED	0.75 mm ²	1.20-1.30mm	.047051 in.	2.05-2.25mm	.081089 in.	
	Wire Type	Wire Size	11. Crimp Height		12. Crimp Width		
	GXL	20 AWG	1.90-2.10mm	.075083 in.	2.20-2.40mm	.087094 in.	
	HIFLON	20 AWG	1.80-2.00mm	.071079 in.	2.00-2.20mm	.079087 in.	
Insulation Crimp	TXL	20 AWG	1.80-2.00mm	.071079 in.	2.00-2.20mm	.079087 in.	
	EXRAD BLOCKED	0.75 mm ²	2.25-2.35mm	.089093 in.	2.00-2.20mm	.079087 in.	
	PSA FTP 00949_10_00768	0.75 mm ²	2.25-2.35mm	.089093 in.	2.00-2.20mm	.079087 in.	
	FLR91X-A-XLPO M1L-126A1 EXRAD UNBLOCKED	0.75 mm ²	2.25-2.35mm	.089093 in.	2.00-2.20mm	.079087 in.	

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	Wire Type	Wire Size	Minimum Force		
	GXL	20 AWG	75 N	16.9 lb.	
	HIFLON	20 AWG	75 N	16.9 lb.	
Pull Force	TXL	20 AWG	75 N	16.9 lb.	To be measured with no
	EXRAD BLOCKED	0.75 mm ²	90 N	20.3 lb.	influence from the insulation crimp.
	PSA FTP 00949_10_00768	0.75 mm ²	90 N	20.3 lb.	crimp.
	FLR91X-A-XLPO M1L-126A1 EXRAD UNBLOCKED	0.75 mm ²	90 N	20.3 lb.	
13. Conductor Anvil Flash Height	Not to extend below lowest point on conductor crimp				
14. Conductor Anvil Flash Width	0.10mm (.004") Max				
15. Insulation Grip Step	0.20-0.40mm (.008016")				
16. Crimp Bulge	2.65mm (.104") Max within 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.

CUTTING INSERT

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 standard 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.

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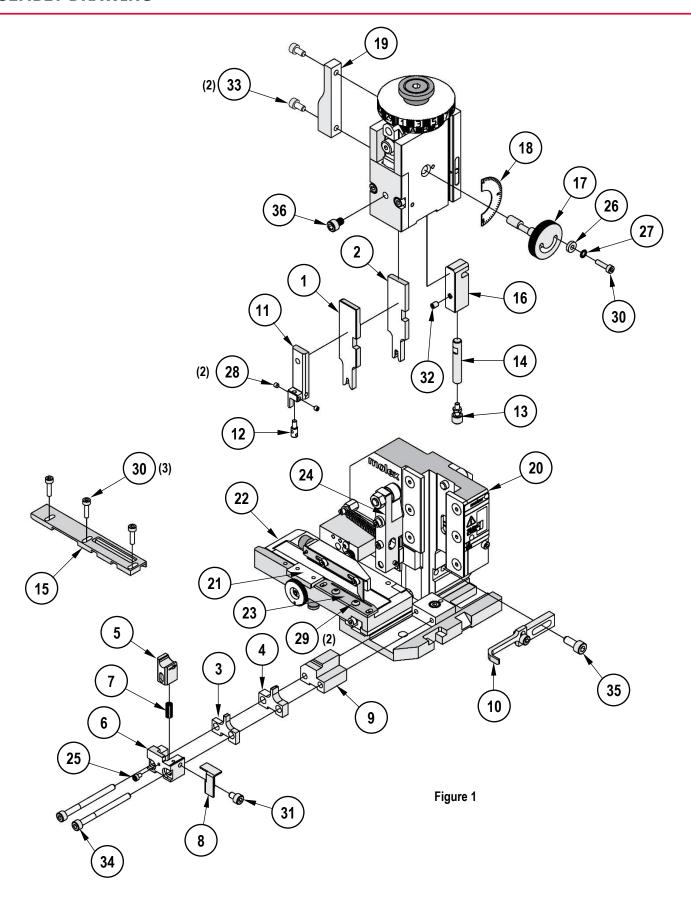
PARTS LIST

FA2 Applicator 63808-2600							
Item	Order No.	Engineering No.	Description	Quantity			
Perishable Tooling							
	63808-2670	63808-2670	Tool Kit (All "Y" Items)	Ref			
1	63454-0171	63454-0171	Insulation Punch	1 Y			
2	63457-0117	63457-0117	Conductor Punch	1 Y			
3	63456-2002	63456-2002	Insulation Anvil	1 Y			
4	63455-0145	63455-0145	Conductor Anvil	1 Y			
5	63443-0034	63443-0034	Cut-Off Plunger	1 Y			
Non-Perishable Components							
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	63443-7502	63443-7502	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	63443-4714	63443-4714	Terminal Guide	1			
16	63808-0220	63808-0220	Hold Down Block	1			
17	63808-0229	63808-0229	Bend Adjust Dial	1			
18	63600-4387	63600-4387	Dial Indicator Plate	1			
19	63808-0297	63808-0297	Feed Cam	1			
		Fran	ne				
20	63808-0200	63808-0200	Applicator Core	1			
21	63443-4801	63443-4801	Drag Pad	1			
22	63443-4601	63443-4601	Track	1			
23	63443-4602	63443-4602	Carrier Cover	1			
24	63808-0197	63808-0197	Mechanical Feed Assembly	1			
Hardware							
25	_	_	M2.5 x 4 SHCS	1*			
26	_	_	M3 Flat Washer Hard	1*			
27			M3 Inner Tooth Lock Washer	1*			
28	_	_	M3 x 3 SSS	2*			
29	_	_	M3 x 6 BHCS	2*			
30	_	_	M3 x 12 SHCS	4*			
31	_	_	M4 x 6 SHCS	1*			
32		_	M4 x 6 SSS	1*			
33		-	M4 x 8 SHCS	2*			
34	_	_	M4 x 50 SHCS	2*			
35		_	M5 x 12 SHCS 1				
36	_	_	#10-32UNF x .25" SHCS	1*			

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

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ASSEMBLY DRAWING



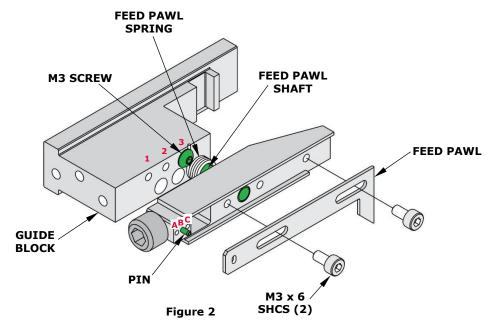
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FACTORY SETTINGS

Feed Pawl Assembly

The FA2 applicator number 63808-2600 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.

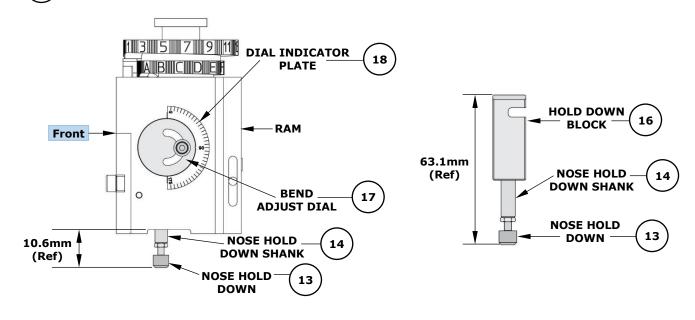


This information is included as a reference only. Each applicator is configured and tested by Molex prior to shipping, and the above settings were used to produce the included sample crimps.

Third Dial/Ram Assembly

Note

Indicates item number on the Parts List and Assembly Drawing



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Application Tooling Support

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