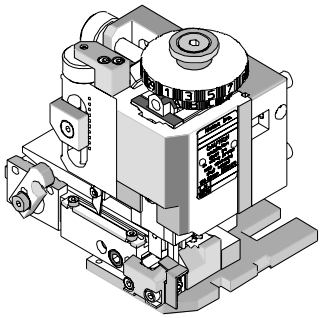
FineAdjust Applicator Specification Sheet Part No. 63869-0300



FEATURES

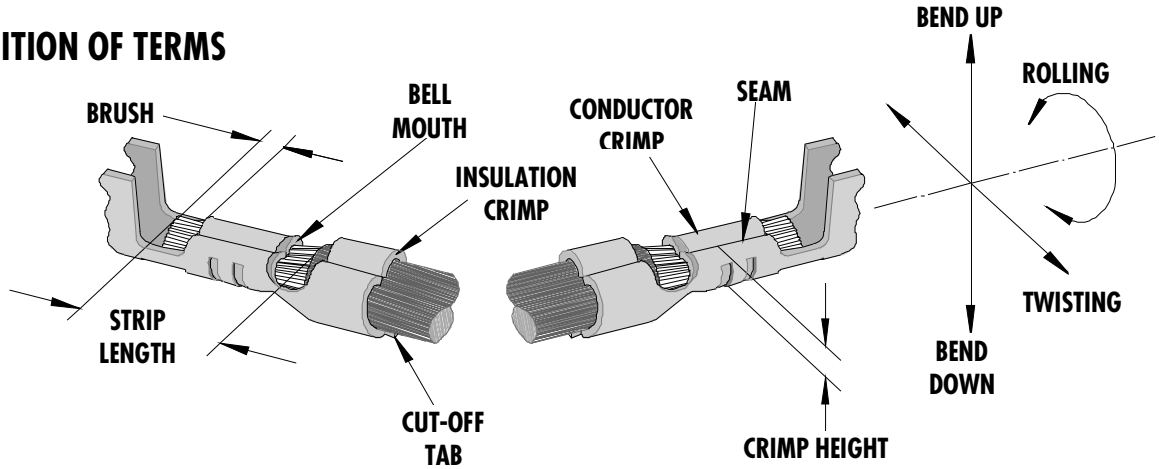
- Directly adapts to most automatic wire processing machines
- Quick punch removal with the push of a button for fast and easy tooling change
- Applicator designed to industry standard mounting and shut height 135.80mm (5.346")
- Quick set-up time; plus the crimp height, track and feed adjustments can be set without removing the applicator from the press
- Fine adjustment allows users to achieve target with little effort by adjusting in increments of 0.15mm (.0006") for conductor crimp height and .063mm (.0025") for insulation height
- Independent adjustment rings allow users to quickly adjust the conductor or insulation crimp height without affecting each other

SCOPE

Products: Micro-Fit 3.0™ Crimp Terminal, Male and Female, 20-24 AWG.

Terminal Series No.	Terminal Order No.		Wire Size		Insulation Diameter		Strip Length	
			AWG	mm²	mm	In.	mm	In.
43030	43030-0001	43030-0051	20-24	0.50-0.20	0.91-1.09	.036-.043	2.54-2.92	.100-.115
	43030-0002	43030-0052						
	43030-0003	43030-0053						
43031	43031-0001	43031-0051	20-24	0.50-0.20	0.91-1.09	.036-.043	2.54-2.92	.100-.115
	43031-0002	43031-0052						
	43031-0003	43031-0053						
	43031-0017	43031-0102						
	43031-0018	43031-0103						
44372	44372-0002	44372-3606	20-24	0.50-0.20	0.91-1.09	.036-.043	2.54-2.92	.100-.115
This Applicator will crimp small wire insulation diameter above. Applicator 63860-8100 should be used for insulation OD 1.30-1.85mm (.051-.073 inch). Applicator 63869-0200 should be used for insulation OD 1.10-1.30 mm (.043-.051 inch).								

DEFINITION OF TERMS



The above terminal drawing is a generic terminal representation. It is not an image of a terminal listed in the scope.

CRIMP SPECIFICATION

Terminal Series No.	Bell mouth		Cut-off Tab Max.		Conductor Brush	
	mm	In.	mm	In.	mm	In.
43030	0.05-0.40	.002-.016	0.15	.006	0.20-0.80	.008-.031
43031	0.05-0.40	.002-.016	0.15	.006	0.20-0.80	.008-.031
44372	0.05-0.40	.002-.016	0.15	.006	0.20-0.80	.008-.031

Terminal Series No.	Bend up	Bend down	Twist	Roll	Punch Width mm (Ref)				Seam
					Conductor		Insulation		
	Degree		Degree		mm	In	mm	In	
43030	3	3	4	8	1.40	.055	1.40	.055	Seam shall not be open and no wire allowed out of the crimping area
43031	3	3	4	8	1.40	.055	1.40	.055	
44372	3	3	4	8	1.40	.055	1.40	.055	

After crimping, the conductor profile should measure the following.

Terminal Order No.	Wire Size		Conductor Crimp Height		Insulation Crimp Height		Pull Force Min.	
	AWG	mm^2	mm	In.	mm	In.	N	Lb.
43030-0001	20	0.50	0.91-0.99	.036-.039	2.30 max	.090 max	57.9	13.0
	22	0.35	0.84-0.91	.033-.036	2.30 max	.090 max	35.6	8.0
	24	0.20	0.79-0.84	.031-.033	2.30 max	.090 max	22.3	5.0
43030-0002	20	0.50	0.91-0.99	.036-.039	2.30 max	.090 max	57.9	13.0
	22	0.35	0.84-0.91	.033-.036	2.30 max	.090 max	35.6	8.0
	24	0.20	0.79-0.84	.031-.033	2.30 max	.090 max	22.3	5.0
43030-0003	20	0.50	0.91-0.99	.036-.039	2.30 max	.090 max	57.9	13.0
	22	0.35	0.84-0.91	.033-.036	2.30 max	.090 max	35.6	8.0
	24	0.20	0.79-0.84	.031-.033	2.30 max	.090 max	22.3	5.0
43030-0051	20	0.50	0.91-0.99	.036-.039	2.30 max	.090 max	57.9	13.0
	22	0.35	0.84-0.91	.033-.036	2.30 max	.090 max	35.6	8.0
	24	0.20	0.79-0.84	.031-.033	2.30 max	.090 max	22.3	5.0
43030-0052	20	0.50	0.91-0.99	.036-.039	2.30 max	.090 max	57.9	13.0
	22	0.35	0.84-0.91	.033-.036	2.30 max	.090 max	35.6	8.0
	24	0.20	0.79-0.84	.031-.033	2.30 max	.090 max	22.3	5.0
43030-0053	20	0.50	0.91-0.99	.036-.039	2.30 max	.090 max	57.9	13.0
	22	0.35	0.84-0.91	.033-.036	2.30 max	.090 max	35.6	8.0
	24	0.20	0.79-0.84	.031-.033	2.30 max	.090 max	22.3	5.0
43031-0001	20	0.50	0.91-0.99	.036-.039	2.30 max	.090 max	57.9	13.0
	22	0.35	0.84-0.91	.033-.036	2.30 max	.090 max	35.6	8.0
	24	0.20	0.79-0.84	.031-.033	2.30 max	.090 max	22.3	5.0
43031-0002	20	0.50	0.91-0.99	.036-.039	2.30 max	.090 max	57.9	13.0
	22	0.35	0.84-0.91	.033-.036	2.30 max	.090 max	35.6	8.0
	24	0.20	0.79-0.84	.031-.033	2.30 max	.090 max	22.3	5.0
43031-0003	20	0.50	0.91-0.99	.036-.039	2.30 max	.090 max	57.9	13.0
	22	0.35	0.84-0.91	.033-.036	2.30 max	.090 max	35.6	8.0
	24	0.20	0.79-0.84	.031-.033	2.30 max	.090 max	22.3	5.0
43031-0017	20	0.50	0.91-0.99	.036-.039	2.30 max	.090 max	57.9	13.0
	22	0.35	0.84-0.91	.033-.036	2.30 max	.090 max	35.6	8.0
	24	0.20	0.79-0.84	.031-.033	2.30 max	.090 max	22.3	5.0
43031-0018	20	0.50	0.91-0.99	.036-.039	2.30 max	.090 max	57.9	13.0
	22	0.35	0.84-0.91	.033-.036	2.30 max	.090 max	35.6	8.0
	24	0.20	0.79-0.84	.031-.033	2.30 max	.090 max	22.3	5.0

Terminal Order No.	Wire Size		Conductor Crimp Height		Insulation Crimp Height		Pull Force Min.	
	AWG	mm^2	mm	In.	mm	In.	N	Lb.
43031-0051	20	0.50	0.91-0.99	.036-.039	2.30 max	.090 max	57.9	13.0
	22	0.35	0.84-0.91	.033-.036	2.30 max	.090 max	35.6	8.0
	24	0.20	0.79-0.84	.031-.033	2.30 max	.090 max	22.3	5.0
43031-0052	20	0.50	0.91-0.99	.036-.039	2.30 max	.090 max	57.9	13.0
	22	0.35	0.84-0.91	.033-.036	2.30 max	.090 max	35.6	8.0
	24	0.20	0.79-0.84	.031-.033	2.30 max	.090 max	22.3	5.0
43031-0053	20	0.50	0.91-0.99	.036-.039	2.30 max	.090 max	57.9	13.0
	22	0.35	0.84-0.91	.033-.036	2.30 max	.090 max	35.6	8.0
	24	0.20	0.79-0.84	.031-.033	2.30 max	.090 max	22.3	5.0
43031-0102	20	0.50	0.91-0.99	.036-.039	2.30 max	.090 max	57.9	13.0
	22	0.35	0.84-0.91	.033-.036	2.30 max	.090 max	35.6	8.0
	24	0.20	0.79-0.84	.031-.033	2.30 max	.090 max	22.3	5.0
43031-0103	20	0.50	0.91-0.99	.036-.039	2.30 max	.090 max	57.9	13.0
	22	0.35	0.84-0.91	.033-.036	2.30 max	.090 max	35.6	8.0
	24	0.20	0.79-0.84	.031-.033	2.30 max	.090 max	22.3	5.0
44372-0002	20	0.50	0.91-0.99	.036-.039	2.30 max	.090 max	57.9	13.0
	22	0.35	0.84-0.91	.033-.036	2.30 max	.090 max	35.6	8.0
	24	0.20	0.79-0.84	.031-.033	2.30 max	.090 max	22.3	5.0
44372-3606	20	0.50	0.91-0.99	.036-.039	2.30 max	.090 max	57.9	13.0
	22	0.35	0.84-0.91	.033-.036	2.30 max	.090 max	35.6	8.0
	24	0.20	0.79-0.84	.031-.033	2.30 max	.090 max	22.3	5.0

Pull Force should be measured with no influence from the insulation crimp.

The above specifications are guidelines to an optimum crimp.

PARTS LIST

FineAdjust Applicator 63869-0300				
Item	**Order No**	**Engineering No.**	**Description**	**Quantity**
Perishable Tooling				
	63869-0370	63869-0370	Tool Kit (All "Y" Items)	REF
1	63444-1421	63444-1421	Conductor Punch	1 Y
2	63445-1436	63445-1436	Conductor Anvil	1 Y
3	63446-1406	63446-1406	Insulation Punch	1 Y
4	63445-1409	63445-1409	Insulation Anvil	1 Y
5	63443-0002	63443-0002	Cut-Off Plunger	1 Y
6	63443-0012	63443-0012	Front Plunger Retainer	1 Y
Other Components				
7	11-18-4083	60707-8	Front Cover	1
8	11-24-1067	4996-4	Cut-off Plunger Spring	1
9	11-40-4039	8302-5	Front Plunger Striker	1
10	63443-0009	63443-0009	Scrape Chute	1
11	63443-0021	63443-0021	Lower Tooling Key	1
12	63443-2409	63443-2409	Anvil Mount	1
13	63443-4005	63443-4005	Wire Stop	1
14	63443-6003	63443-6003	Rear Cover	1
Frame				
15	63800-4901	63800-4901	Top	1
16	63801-3281	63801-3281	Base	1
17	63801-4650	63801-4650	Track	1
Hardware				
18	N/A	N/A	M3 by 6 Long SHCS	2**
19	N/A	N/A	M4 by 6 Long SHCS	1**
20	N/A	N/A	M4 by 12 Long BHCS	2**
21	N/A	N/A	M4 by 16 Long SHCS	1**
22	N/A	N/A	M4 by 20 Long SHCS	1**
23	N/A	N/A	M4 by 50 Long SHCS	1**
24	N/A	N/A	3mm by 6 Long Roll Pin	1**
25	N/A	N/A	#10-32 by 5/32"Long BHCS	1**
** Available from an industrial supply company such as MSC (1-800-645-7270).				

Assembly Drawing

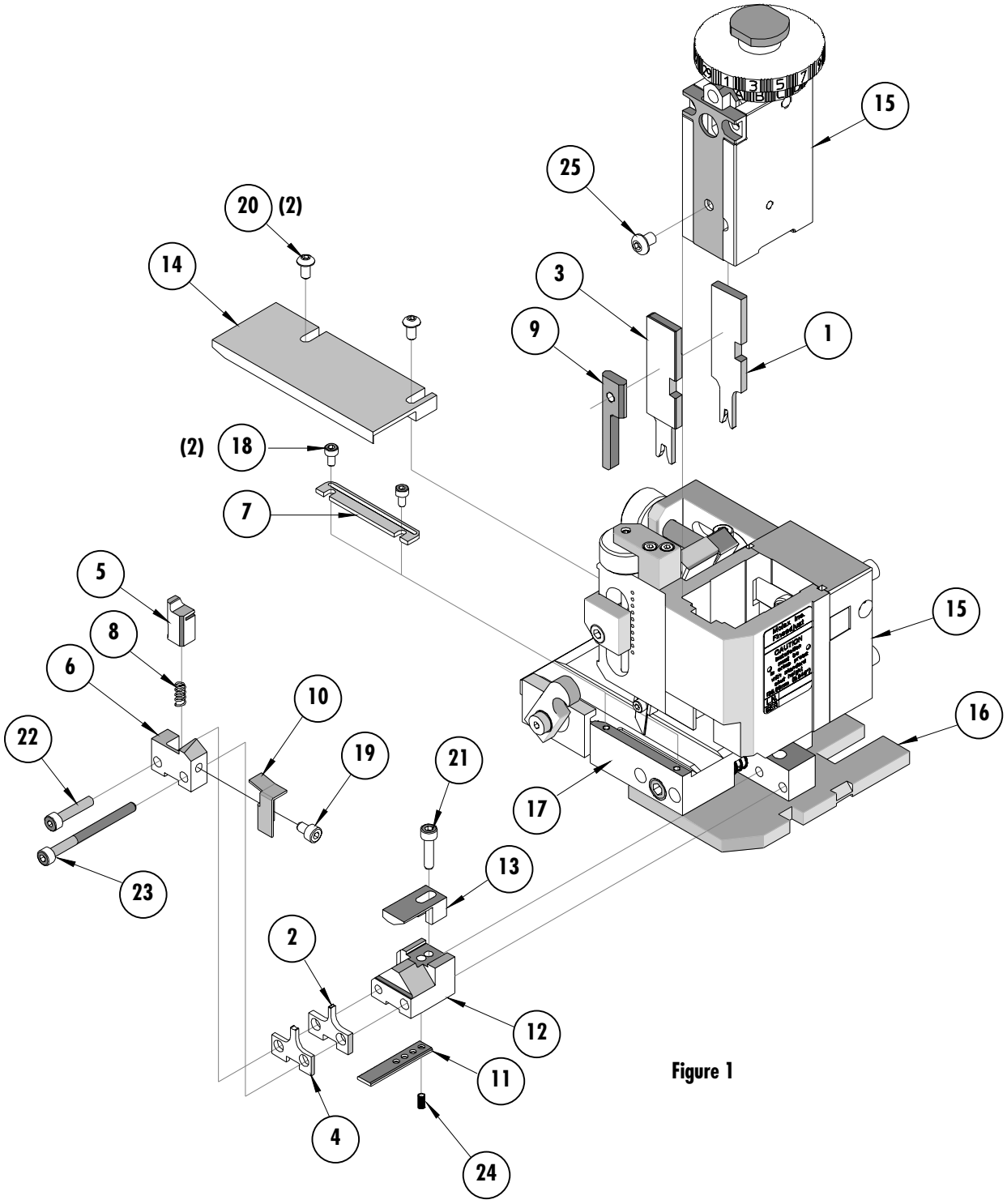


Figure 1

NOTES

1. Molex recommends an extra perishable tooling kit be maintained at your facility.
2. Verify tooling alignment by manually 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 work area.
4. Wear safety glasses at all times.
5. For recommended maintenance refer to the FineAdjust Manual.

CAUTION: This applicator should only be used in a press with a shut height of 135.8mm (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 crimp specifications are valid only when used with Molex terminals, applicators and tooling.

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