FineAdjust Applicator Specification Sheet Part No. 63863-7100



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 .015mm (.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: 2.50mm (.098") Board-In Terminal for 22-28 AWG.

Terminal Cories No.	ninal Series No. Terminal Order No.		Wire Size		Insulation Diameter		Strip Length	
Terminal Series No.			AWG	mm ²	mm	ln.	mm	ln.
	35044-9103	35044-9360						
35044	35044-9104	35044-9410	22-28	0.33-0.08	1.20-1.90	.047075	3.00-3.50	.118138
	35044-9310	35044-9460						

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 n	nouth	Cut-off Tak	Maximum	Conductor Brush		
	mm	ln.	mm	ln.	mm	In.	
35044	0.20-0.50	.008020	0.30	.012	0.00-1.40	0.0055	

	Bend up Bend down		Twict	Roll	Punch Width mm (Ref)				Seam	
Terminal Series No.			I WISI KUI		Conductor		Insulation			
	Degree		Degree		mm	In	mm	In	Seam shall not be open	
35044	3	3	3	3	1.20	.047	1.80	.071	and no wire allowed out of the crimping area	

After crimping, the conductor profile should measure the following.

	Wire Size		Conductor					
Terminal Series No.	wire	Size	Crimp	Height	Crimp Width			
	AWG	mm ²	mm	In.	mm	ln.		
	22	0.33	0.83-0.88	.033035	1.10-1.30	.043051		
25044	24	0.20	0.76-0.81	.030032	1.10-1.30	.043051		
35044	26	0.13	0.69-0.74	.027029	1.10-1.30	.043051		
	28	0.08	0.66-0.71	.026028	1.10-1.30	.043051		

	Wire Size			Pull Force				
Terminal Series No.	wire	Size	Crimp Hei	ght (Max)	Crimp	Minimum		
	AWG	mm ²	mm	In.	mm	ln.	N	Lb.
	22	0.33	1.70	.067	1.70-1.90	.067075	39.2	8.60
35044	24	0.20	1.70	.067	1.70-1.90	.067075	29.4	6.60
33044	26	0.13	1.70	.067	1.70-1.90	.067075	19.6	4.40
	28	0.08	1.70	.067	1.70-1.90	.067075	9.8	2.20

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 63863-7100									
ltem	Order No	Engineering No.	Description	Quantity					
Perishable Tooling									
	63863-7170	63863-7170	Tool Kit (All "Y" Items)	REF					
1	63444-1210	63444-1210	Conductor Punch	1 Y					
2	63445-1213	63445-1213	Conductor Anvil	1 Y					
3	63446-1810	63446-1810	Insulation Punch	1 Y					
4	63445-1820	63445-1820	Insulation Anvil	1 Y					
5	63443-0003	63443-0003	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	63443-2519	63443-2519	Anvil Mount	1					
13	63443-4029	63443-4029	Wire Stop	1					
14	63443-6001	63443-6001	Rear Cover	1					
		Frar	ne						
15	63800-4901	63800-4901	Тор	1					
16	63801-3281	63801-3281	Base	1					
17	63801-4650	63801-4650	Track	1					
		Hardv	vare						
18	N/A	N/A	M3 by 6 Long SHCS	2**					
19	N/A	N/A	M4 by 6 Long SHCS]**					
20	N/A	N/A	M4 by 12 Long BHCS	2**					
21	N/A	N/A	M4 by 16 Long SHCS]**					
22	N/A	N/A	M4 by 20 Long SHCS]**					
23	N/A	N/A	M4 by 50 Long SHCS]**					
24	N/A	N/A	3mm by 6 Long Roll Pin]**					
25	N/A	N/A	#10-32 by 1/4"Long BHCS]**					
** A	vailable from a	n industrial supply coi	npany such as MSC (1-800-64	5-7270).					



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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