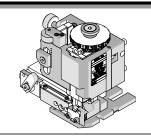




Application Tooling Specification Sheet



Order No. 63903-6400

FEATURES

- 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
- Directly adapts to most automatic wire processing machines

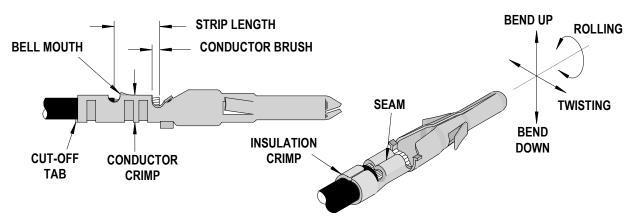
SCOPE

Products: EconoLatch Crimp Terminals 20-22 AWG.

Terminal Series No.	Terminal Order No.	Wire Size		Insulation	Strip Length			
		Wife Size	IPC/WHMA-A620 (1)		Terminal (2)		ourp Lengur	
		AWG	mm	ln.	mm	ln.	mm	ln.
150180	150180-1020	20-22	1.35-1.55	.053061	1.20-1.80	.047071	3.18-3.96	.125156
150181	150181-1020	20-22	1.35-1.55	.053061	1.20-1.80	.047071	3.18-3.96	.125156

- To achieve optimum IPC-A620 insulation crimps, use this insulation OD range (example UL1061).
- Overall insulation OD specification for terminal.

DEFINITION OF TERMS



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

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CRIMP SPECIFICATION

Terminal Series No.	Bell n		off Tab imum	Conductor Brush		
	mm	ln.	mm In.		mm	ln.
150180 150181	0.10-0.60	.004024	0.13	.0005	0.25-1.00	.010039

	Bend up	Bend down	Twist	Roll	Punch Width (Ref)			Seam	
Terminal Series No.	Bella up Bella dowll		I WIST IZOII		Conductor		Insulation		
	De	Degree		Degree		ln.	mm	ln.	Seam shall not be open
150180 150181	3	3	5	10	1.50	.059	1.80	.071	And no wire allowed out of the crimping area

After crimping, the crimp profiles should measure the following:

	Wire Size		Pull Force				
Terminal Series No.	Wife Size	Crimp	Height	Crimp W	Minimum		
	AWG	mm	ln.	mm	ln.	N	Lb.
150180	20	0.88-0.98	.035039	1.50	.059	66.7	15.0
	22	0.79-0.87	.031034	1.50	.059	44.5	10.0
150181	20	0.88-0.98	.035039	1.50	.059	66.7	15.0
150101	22	0.79-0.87	.031034	1.50	.059	44.5	10.0

Tool Qualification Notes:

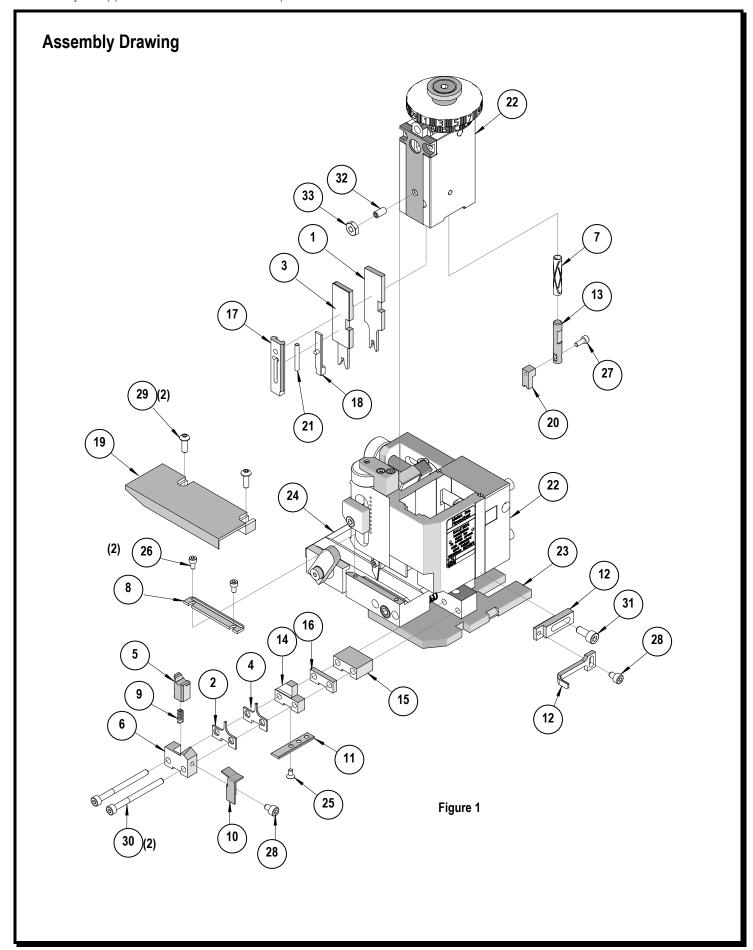
- 1. Pull Force should be measured with no influence from the insulation crimp.
- 2. The above specifications are guidelines to an optimum crimp.

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PARTS LIST

FineAdjust Applicator 63903-6400									
Item	Order No	Engineering No.	Description	Quantity					
Perishable Tooling									
	63903-6470	63903-6470	Tool Kit (All "Y" Items)	REF					
1	63444-1512	63444-1512	Conductor Punch	1 Y					
2	63445-1521	63445-1521	Conductor Anvil	1 Y					
3	63446-1823	63446-1823	Insulation Punch	1 Y					
4	63445-1839	63445-1839	Insulation Anvil	1 Y					
5	63443-0002	63443-0002	Cut-Off Plunger Front	1 Y					
6	63443-0012	63443-0012	Plunger Retainer Front	1 Y					
Other Components									
7	11-17-0022	1739-21	Hold-Down Spring	1					
8	11-18-4083	60707-8	Feed Guide	1					
9	11-24-1067	4996-4	Cut-off Plunger Spring	1					
10	63443-0009	63443-0009	Scrap Chute Front	1					
11	63443-0024	63443-0024	Lower Tooling Key	1					
12	63443-0090	63443-0090	Wire Stop	1					
13	63443-0093	63443-0093	Shank	1					
14	63443-1719	63443-1719	Height Spacer	1					
15	63443-2215	63443-2215	Coarse Spacer (15.0mm)	1					
16	63443-2319	63443-2319	Fine Spacer (3.95mm)	1					
17	63443-2802	63443-2802	Plunger Striker Front	1					
18	63443-2909	63443-2909	Wire Hold-Down Plunger	1					
19	63443-6110	63443-6110	Rear Cover	1					
20	63443-7134	63443-7134	Terminal Hold-Down	1					
21	63600-0021	63600-0021	Wire Hold-Down Spring	1					
Frame									
22	63800-4901	63800-4901	Тор	1					
23	63801-3281	63801-3281	Base	1					
24	63801-4650	63801-4650	Track	1					
		H	lardware						
25	N/A	N/A	M3 by 6 Long FHCS	1**					
26	N/A	N/A	M3 by 6 Long SHCS	2**					
27	N/A	N/A	M3 by 8 Long SHCS	1**					
28	N/A	N/A	M4 by 6 Long SHCS	2**					
29	N/A	N/A	M4 by 12 Long BHCS	2**					
30	N/A	N/A	M4 by 50 Long SHCS	2**					
31	N/A	N/A	M5 by 12 Long SHCS	1**					
32	N/A	N/A	#10-32 by 3/8"Long Flat Point SSS	1**					
33	N/A	N/A	#10-32 Hex Jam Nut	1**					
**	** Available from an industrial supply company such as MSC (1-800-645-7270).								

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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 135.80 mm (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.

Visit our Website at http://www.molex.com

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