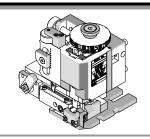




Application Tooling Specification Sheet



Order No. 63900-4500

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

Tarminal	Terminal Order No.		Wire Size			Insulation	Strip Length			
Terminal Series No.					IPC/WHMA-A620 (1)				Terminal (2)	
Series No.			AWG	mm²	mm	ln.	mm	ln.	mm	ln.
43030	43030-0001	43030-0051		0.50-0.20	1.30-1.85	.051073	0.90-1.85	.035073	2.54-2.92	.100115
	43030-0002	43030-0052	00.04							
	43030-0003	43030-0053	20-24							
	43030-1001									
	43031-0001	43031-0051	20-24	0.50-0.20	1.30-1.85	.051073	0.90-1.85	.035073	2.54-2.92	.100115
	43031-0002	43031-0052								
43031	43031-0003	43031-0053								
	43031-0017	43031-0102								
	43031-0018	43031-0103								
44372	44372-0002	44372-3606	20-24	0.50-0.20	1.30-1.85	.051073	0.90-1.85	.035073	2.54-2.92	.100115
45773	45773-0001	45773-0002	20-24	0.50-0.20	1.30-1.85	.051073	0.90-1.85	.035073	2.54-2.92	.100115
	45773-0003	45773-0053	20-24							
45807	45807-0004		20-24	0.50-0.20	1.30-1.85	.051073	0.90-1.85	.035073	2.54-2.92	.100115

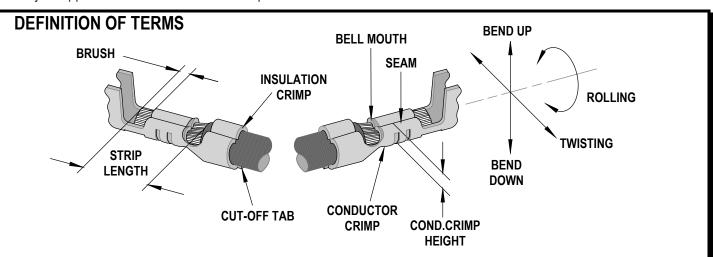
⁽¹⁾ To achieve optimum IPC-A620 Class 2 insulation crimps, use this insulation OD range

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⁽²⁾ Overall insulation OD specification for terminal

Applicator 63901-8900 should be used for insulation OD 0.91-1.09mm (.036-.043 inch)

Applicator 63901-8800 should be used for insulation OD 1.10-1.30mm (.043-.051 inch)



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

CRIMP SPECIFICATION

Torm	inal Caria	o No	Bell n	nouth	Cut-off Tak	Maximum	Conductor Brush	
Terminal Series No.			mm	ln.	mm In.		mm	ln.
43030	43031	44372	0.05-0.40	.002016	0.15	.006	0.20-0.80	.008031
45773	45807		0.05-0.40					

	Bend up E	Twict	Roll		Punch Width mm (Ref)			Seam	
Terminal Series No.	Della up L	I WIST KOII		Conductor		Insulation			
	Degree		Degree		mm	ln	mm	ln	Seam shall not be open
43030 43031 44372	2	2	1	Q	1.40	.055	1.90	.075	and no wire allowed out
45773 45807	3	3	4	O	1.40	.055	1.90	.075	of the crimping area

After crimping, the conductor profile should measure the following.

Terminal Series No.	Wire Size		Conductor (Crimp Height	Insulation C	rimp Height	Pull Force Minimum	
Terminal Series No.	AWG mm ²		mm	ln.	mm	ln.	N	Lb.
	20	0.50	0.91-0.99	.036039	2.30 max	.090 max	57.9	13.0
43030	22	0.35	0.84-0.91	.033036	2.30 max	.090 max	35.6	8.0
	24	0.20	0.79-0.84	.031033	2.30 max	.090 max	22.3	5.0
	20	0.50	0.91-0.99	.036039	2.30 max	.090 max	57.9	13.0
43031	22	0.35	0.84-0.91	.033036	2.30 max	.090 max	35.6	8.0
	24	0.20	0.79-0.84	.031033	2.30 max	.090 max	22.3	5.0
	20	0.50	0.91-0.99	.036039	2.30 max	.090 max	57.9	13.0
44372	22	0.35	0.84-0.91	.033036	2.30 max	.090 max	35.6	8.0
	24	0.20	0.79-0.84	.031033	2.30 max	.090 max	22.3	5.0
	20	0.50	0.91-0.99	.036039	2.30 max	.090 max	57.9	13.0
45773	22	0.35	0.84-0.91	.033036	2.30 max	.090 max	35.6	8.0
	24	0.20	0.79-0.84	.031033	2.30 max	.090 max	22.3	5.0
	20	0.50	0.91-0.99	.036039	2.30 max	.090 max	57.9	13.0
45807	22	0.35	0.84-0.91	.033036	2.30 max	.090 max	35.6	8.0
	24	0.20	0.79-0.84	.031033	2.30 max	.090 max	22.3	5.0

Tool Qualification Notes:

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

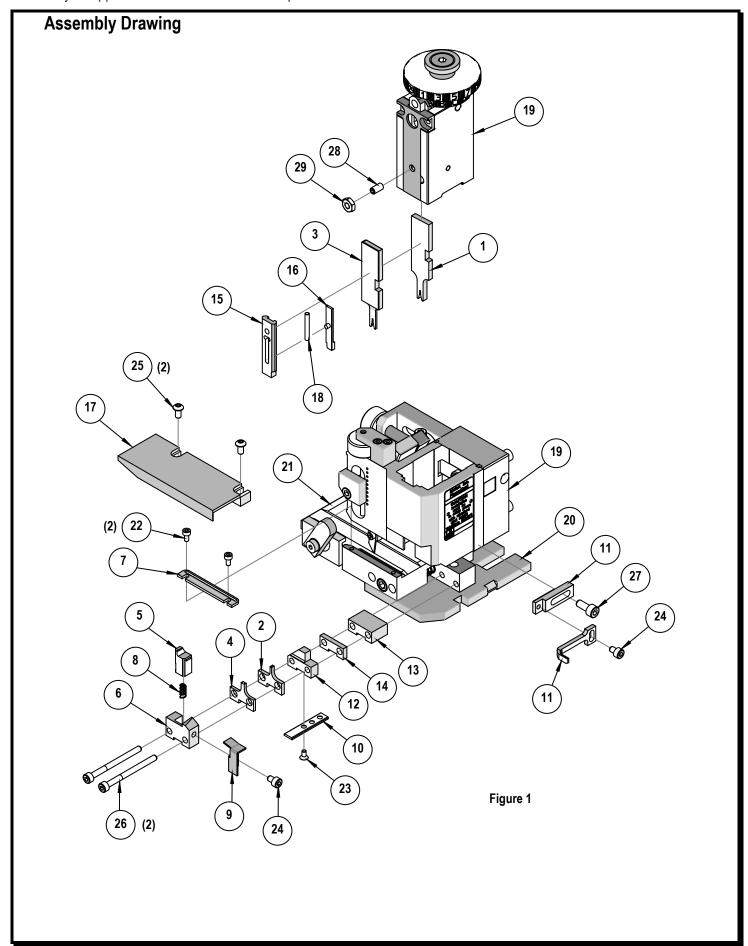
2. The above specifications are guidelines to an optimum crimp.

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PARTS LIST

FineAdjust Applicator 63900-4500									
Item	Order No								
Perishable Tooling									
	63900-4570	63900-4570	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	63446-1902	63446-1902	Insulation Punch	1 Y					
4	63445-1905	63445-1905	Insulation Anvil	1 Y					
5	63443-0005	63443-0005	Cut-Off Plunger	1 Y					
6	63443-0012	63443-0012	Front Plunger Retainer	1 Y					
			Components						
7	11-18-4083	60707-8	Feed Guide	1					
8	11-24-1067	4996-4	Cut-off Plunger Spring	1					
9	63443-0009	63443-0009	Front Scrap Chute	1					
10	63443-0024	63443-0024	Key	1					
11	63443-0090	63443-0090	Wire Stop	1					
12	63443-1703	63443-1703	Height Spacer (17.30mm)	1					
13	63443-2216	63443-2216	Coarse Spacer (16.00mm)	1					
14	63443-2302	63443-2302	Fine Spacer (3.10mm)	1					
15	63443-2802	63443-2802	Front Plunger Striker	1					
16	63443-2905	63443-2905	Wire Hold Down Plunger	1					
17	63443-6111	63443-6111	Rear Cover	1					
18	63600-0021	63600-0021	Compression Spring	1					
			Frame						
19	63800-4901	63800-4901	Тор	1					
20	63801-3281	63801-3281	Base	1					
21	63801-4650	63801-4650	Track	1					
		H	lardware						
22	N/A	N/A	M3 by 6 Long SHCS	2**					
23	N/A	N/A	M3 by 6 Long FHCS	1**					
24	N/A	N/A	M4 by 6 Long SHCS	2**					
25	N/A	N/A	M4 by 12 Long BHCS	2**					
26	N/A	N/A	M4 by 50 Long SHCS	2**					
27	N/A	N/A	M5 by 12 Long SHCS	1**					
28	N/A	N/A	#10-32 by 3/8"Long Flat Point SSS	1**					
29	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 135.8mm (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.

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.

CAUTION

CAUTION:

"A-620 and other industry standards do not supersede the manufacturer's specifications. Some terminals designed over 20 years ago may not meet the desired physical attributes for some of. today's standards. However, these terminals will still perform electrically at an acceptable quality level based on qualification testing and years of successful performance in the field.

Application Tooling Support

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