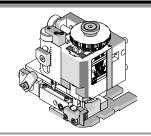




Application Tooling Specification Sheet



Order No. 63903-6700

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

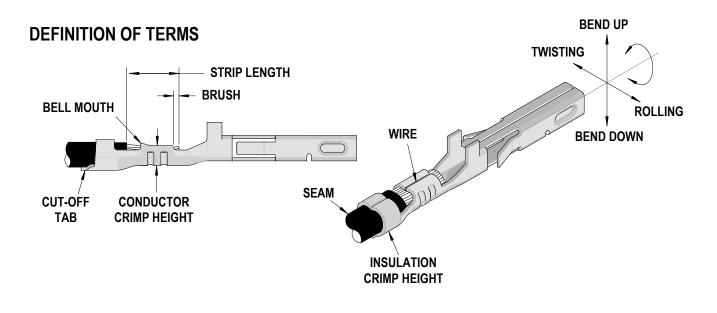
SCOPE

Products: Mini-Fit TPA 2.0 Crimp Terminals, 16 AWG wires.

		Wire Size IP			Insulation	Strip Length			
Terminal Series No.	Terminal Order No.			IPC/WHMA-A620 (1)				Terminal (2)	
		AWG	mm²	mm	ln.	mm	ln.	mm	ln.
172718	172718-1111	16		1.98-2.55	.078100	1.98-2.55	.078100	3.20-3.80	.126150
	172718-1121								
172765	172765-1111								
	172765-1121								

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

Overall insulation OD specification for terminal.



Doc No: ATS-639036700 Release Date: 03-15-16 Revision: A Revision Date: 03-15-16

CRIMP SPECIFICATION

Terminal Series No.		Bell n	nouth	Cut-off Tal	o Maximum	or Brush	
	reminiai Senes No.	mm	ln.	mm	ln.	mm	ln.
	172718	0.20-0.70	.008028 .3	20	.012	0.20-0.80	000 022
	172765	0.20-0.70		.30	.012	0.20-0.00	.008032

	Bend up Bend down		Twist Roll		Punch Width (Ref)				Seam
Terminal Series No.					Conductor		Insulation		
	Degree (Max)		Degree (Max)		mm	ln	mm	ln	Seam shall not be open
172718	2	2	2	5	1.80	.071	2.50	.098	and no wire allowed out
172765	٦	3	3	5	1.00	.071	2.50	.090	of the crimping area

After crimping, the conductor profile should measure the following.

I		Wire	Sizo.		Condu	Pull Force Minimum			
	Terminal Series No.	Wile	SIZE	Crimp Height Crimp Width (Ref				- Full Force Willillian	
		AWG	mm ²	mm	ln.	mm	ln.	N	Lb.
	172718	16		1.18-1.28	.046050	1.80	.071	133.5	30.0
	172765	10	16	1.10-1.20	.040050	1.00	.07 1	133.3	30.0

	Wire	Sizo	Insulation			
Terminal Series No.	wile	Size	Crimp He	ight (Ref)	Crimp Width (Ref)	
	AWG	mm ²	mm	ln.	Mm	ln.
172718	16		2.50	.098	2.60	.102
172765	10		2.50	.090	2.00	.102

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.

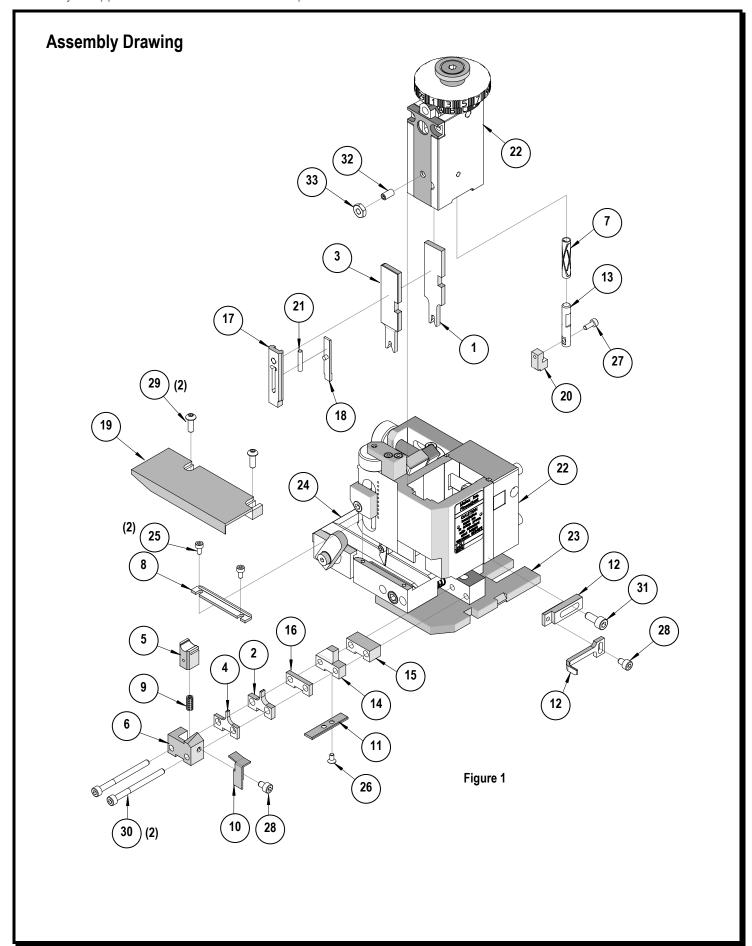
Doc No: ATS-639036700 Page 2 of 5 Release Date: 03-15-16 Revision Date: 03-15-16 Revision: A

PARTS LIST

FineAdjust Applicator 63903-6700									
Item	Order No	Engineering No.	Description	Quantity					
		Perish	nable Tooling						
	63903-6770	63903-6770	Tool Kit (All "Y" Items)	REF					
1	63457-1803	63457-1803	Conductor Punch	1 Y					
2	63455-1802	63455-1802	Conductor Anvil	1 Y					
3	63446-2525	63446-2525	Insulation Punch	1 Y					
4	63445-2541	63445-2541	Insulation Anvil	1 Y					
5	63443-0005	63443-0005	Front Cut-Off Plunger	1 Y					
6	63443-0012	63443-0012	Front Plunger Retainer	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	Front Scrap Chute	1					
11	63443-0024	63443-0024	Key	1					
12	63443-0090	63443-0090	Wire Stop	1					
13	63443-0093	63443-0093	Shank	1					
14	63443-1722	63443-1722	Height Spacer (19.20mm)	1					
15	63443-2215	63443-2215	Spacer (15.0mm)	1					
16	63443-2307	63443-2307	Spacer (3.35mm)	1					
17	63443-2806	63443-2806	Front Plunger Striker	1					
18	63443-2911	63443-2911	Striker Plunger	1					
19	63443-6117	63443-6117	Rear Cover	1					
20	63903-6905	63903-6905	Terminal Hold Down	1					
21	63600-1057	63600-1057	Striker Plunger 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 SHCS	2**					
26	N/A	N/A	M3 by 6 Long FHCS	1**					
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 Lg 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).								

UNCONTROLLED COPY Page 3 of 5 Doc No: ATS-639036700 Release Date: 03-15-16 Revision: A

Revision Date: 03-15-16



Doc No: ATS-639036700 Revision: A Release Date: 03-15-16 Revision Date: 03-15-16

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 wireprocessing 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 Web site at http://www.molex.com

UNCONTROLLED COPY Release Date: 03-15-16 Page 5 of 5 Revision Date: 03-15-16