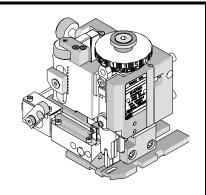


# Mini-Mac Applicator **Specification Sheet** Order No. 63892-4200



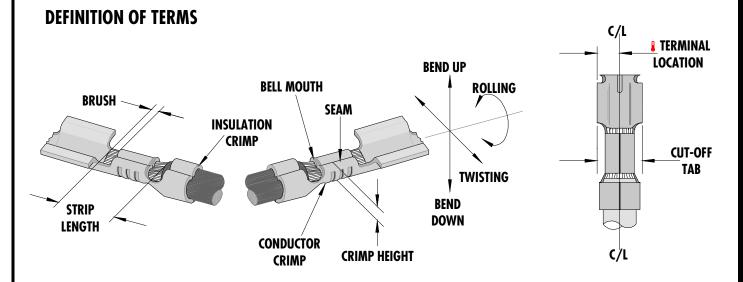
#### **FEATURES**

- Directly adapts to most automatic wire processing machines
- 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: Claspcon<sup>TM</sup> Crimp Terminal Socket, 16-24 AWG

Terminal Series No.	Terminal Order No.		Wire Size		Insulation Diameter		Strip Length	
			AWG	mm²	mm	ln.	mm	ln.
1881-2	02-08-1101	02-08-1105	16-24	1.30-0.20	2.92 Max.	.115 Max.	3.96-5.54	.156218
1881-4	02-08-1107		16-24	1.30-0.20	2.92 Max.	.115 Max.	3.96-5.54	.156218



Terminal is to be centrally located between the two (2) cut-off tab edges by one half of the total cut-off tab tolerance. This illustration is a generic terminal representation and not an exact image of any terminal listed in the scope.

Doc No. ATS-638924200 Release Date: 02-13-07 **UNCONTROLLED COPY** Page 1 of 5 Revision Date: 02-13-07

# **CRIMP SPECIFICATIONS**

Terminal Series No.	Bell mouth		<b>↓</b> Cut-	off Tab	Conductor Brush		
Terminal Series No.	mm	ln.	mm	ln.	mm	ln.	
1881-2			3.53-3.69	.139145			
1881-4			3.53-3.69	.139145			

	Bend up Bend down	Twist Roll	Punch Width (Ref)				C	
Terminal Series No.	Dena up Dena auwn	I WISI KOII	Conductor		Insulation		Seam Seam shall not be open	
	Degree	Degree	mm	ln.	mm	ln.	and no wire allowed out	
1881-2			1.925	.0757	3.10	.122	of the crimping area	
1881-4			1.925	.0757	3.10	.122	or me crimping area	

**NOTE**: Some of the specifications in these charts above are intentionally left blank due to the fact that the information does not currently exist.

After crimping, the conductor profile should measure the following.

	Wire Size		Conductor					Pull Force	
Terminal Series No.			Crimp Height		Crimp Wid	lth (REF)	Minimum		
	AWG	mm²	mm	ln.	mm	ln.	N	Lb.	
	16	1.30	1.42-1.47	.056058			155.8	35.00	
	18	0.80	1.37-1.42	.054056			133.5	30.00	
1881-2	20	0.50	1.32-1.37	.052054			80.1	18.00	
	22	0.35	1.30-1.35	.051053			62.3	14.00	
	24	0.20	1.24-1.30	.049051			40.1	9.00	
1881-4	16	1.30	1.42-1.47	.056058			155.8	35.00	
	18	0.80	1.37-1.42	.054056			133.5	30.00	
	20	0.50	1.32-1.37	.052054			80.1	18.00	
	22	0.35	1.30-1.35	.051053			62.3	14.00	
	24	0.20	1.24-1.30	.049051			40.1	9.00	

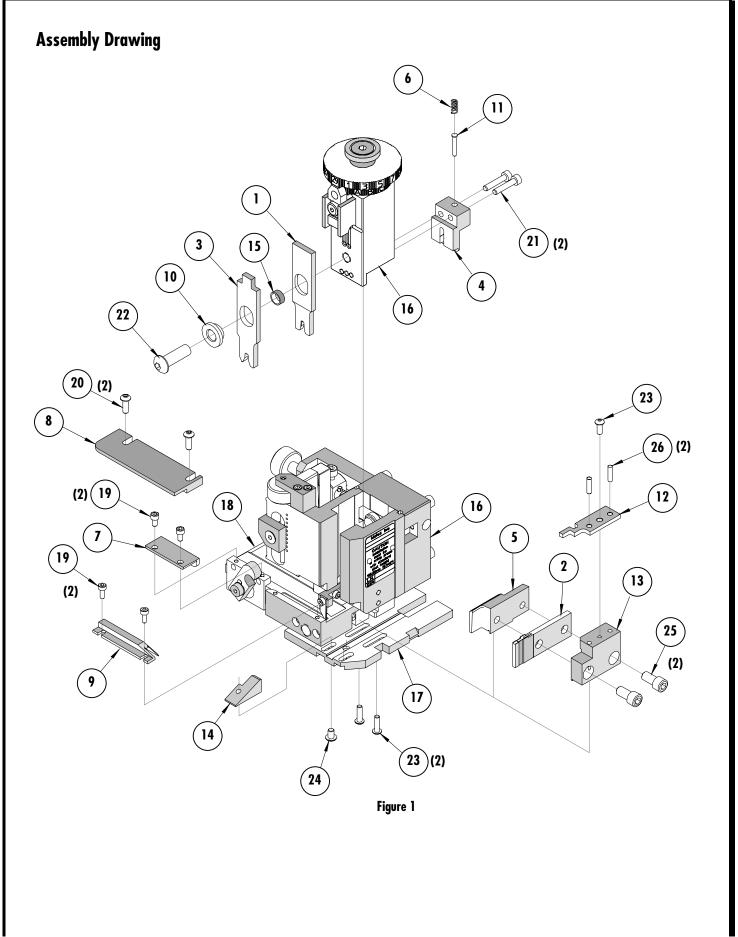
Pull Force should be measured with no influence from the insulation crimp. The above specifications are guidelines to an optimum crimp.

Doc No. ATS-638924200 Revision: A Release Date: 02-13-07 Revision Date: 02-13-07

# **PARTS LIST**

Mini-Mac Applicator 63892-4200									
Item	Order No	Engineering No.	Description	Quantity					
Perishable Tooling									
	63892-4270	63892-4270	Tool Kit (All "Y" Items)	REF					
1	11-18-4050	60706-12	Conductor Punch	1 Y					
2	11-18-4058	60706-20	Combination Anvil	1 Y					
3	11-18-4046	60706-8	Insulation Punch	1 Y					
4	11-18-4447	60706-31	Cut-Off Punch	1 Y					
5	11-18-4044	60706-6	Cut-off Die Plate	1 Y					
		Oth	er Components						
6	11-17-0094	1739-37	Compression Spring	1					
7	11-17-1172	4151-20	Terminal Drag Plate	1					
8	11-18-4040	60706-2	Cover Plate	1					
9	11-18-4042	60706-4	Terminal Guide	1					
10	11-18-4043	60706-5	Insulation Punch Holder	1					
11	11-18-4422	60706-28	Hold Down Plunger	1					
12	11-18-4423	60706-29	Stripper and Wire Stop	1					
13	11-18-4446	60706-30	Stripper and Wire Stop Holder	1					
14	11-18-4562	60700-15	Slug Ramp	1					
15	63803-5105	63803-5105	Conductor Bushing	1					
Frame									
16	63801-3201	63801-3201	Тор	1					
17	63801-3282	63801-3282	Base	1					
18	63801-6550	63801-6550	Track	1					
		H	ardware						
19	N/A	N/A	M3 by 8 Long SHCS	4**					
20	N/A	N/A	M4 by 12 Long BHCS	2**					
21	N/A	N/A	M4 by 16 Long SHCS	2**					
22	N/A	N/A	M8 by 20 Long BHCS	1**					
23	N/A	N/A	#6-32 by 3/8" Long BHCS 3						
24	N/A	N/A	#8-32 by 1/4" Long BHCS 1**						
25	N/A	N/A	#1/4-20 by 1/2" Long SHCS	2**					
26	N/A	N/A	1/8 Diameter by 3/8" Long Roll Pin	2**					
	** Available from an industrial supply company such as MSC (1-800-645-7270).								

**UNCONTROLLED COPY** Page 3 of 5 Doc No. ATS-638924200 Release Date: 02-13-07 Revision Date: 02-13-07



Doc No. ATS-638924200 Revision: A Release Date: 02-13-07 Revision Date: 02-13-07

### **NOTES**

- Molex recommends an extra perishable tooling kit be maintained at your facility.
- Verify tooling alignment by manually cycling the press and applicator before crimping under power. Check that all screws are tight.
- 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 Mini-Mac 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.

### **Contact Information**

For more information on Molex application tooling please contact Molex at 1-800-786-6539.

**Americas Headquarters** Lisle, Illinois 60532 U.S.A. 1-800-78MOLEX amerinfo@molex.com

**Far East North Headquarters** Yamato, Kanagawa, Japan 81-462-65-2324 feninfo@molex.com

**Far East South Headquarters** Jurong, Singapore 65-6-268-6868 fesinfo@molex.com

**European Headquarters** Munich, Germany 49-89-413092-0 eurinfo@molex.com

**Corporate Headquarters** 2222 Wellington Ct. Lisle, IL 60532 U.S.A. 630-969-4550

Fax: 630-969-1352

Visit our Web site at http://www.molex.com

Doc No. ATS-638924200 Release Date: 02-13-07 **UNCONTROLLED COPY** Page 5 of 5 Revision Date: 02-13-07

**Revision: A**