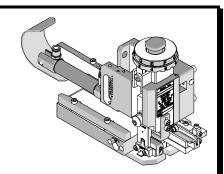


Mini-Mac Applicator Application Tooling Specification Air Feed-Mylar Tape Part No. 63885-6100



FEATURES

- Directly adapts to most crimp presses and automatic wire processors
- Applicator designed to industry-standard mounting and shut height of 135.80mm (5.346")
- Conductor and insulation rings allow quick adjustment for conductor and insulation crimp height change
- Quick set-up time; plus the crimp height, track and feed adjustments can be set without removing the applicator from the crimp press

SCOPE

Products: Funnel Entry Nylon & Nylakrimp Insulated Butt Splice Terminals 18-22 AWG.

Testing Mechanical

The tensile test, or pull test, is a means of evaluating the mechanical properties of the crimped connections. The following chart shows the UL and government specifications (MIL-T-7928) for various wire sizes. The tensile strength is shown in pounds and indicates the minimum acceptable force to break or separate the terminal from the conductor.

Color Code	Wire Size (AWG)	*UL - 486 A	*UL – 486 C	*UL – 310	*Military Class 2
Yellow	26	3	N/A	N/A	7
Yellow	24	5	N/A	N/A	10
Red	22	8	8	8	15
Red	20	13	10	13	19
Red	18	20	10	20	38
Blue	16	30	15	30	50
Blue	14	50	25	50	70
Yellow	12	70	35	70	110
Yellow	10	80	40	80	150
Red	8	90	45	N/A	225
Blue	6	100	50	N/A	300

^{*}UL - 486 A - Terminals (Copper conductors only)

Doc No. 63885-6100 Release Date: 05-24-05 **UNCONTROLLED COPY** Page 1 of 7 Revision Date: 05-24-05

Revision: A

^{*}UL - 486 C - Butt Splices, Parallel Splices, Closed End Connectors, and Wire Nuts

^{*}UL - 310 - Quick Disconnects, Flag and Couplers

^{*}Military Class 2- Military Approved Terminals only as listed

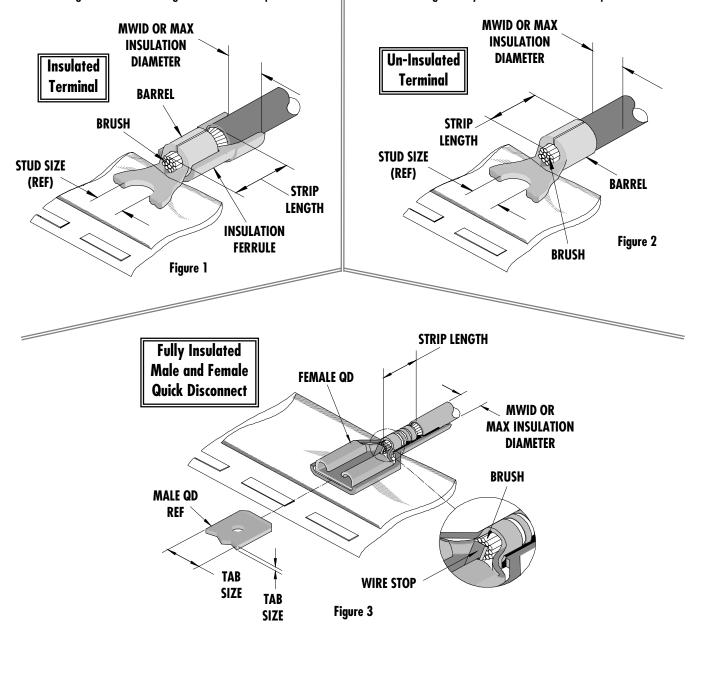
Product List

The following is a partial list of the product order numbers and their specifications that this tool is designed to run. Updates to this list are available on www.molex.com.

Terminal No.	Terminal Eng. No.	Wire Size		Insulation	Strip Length		
	Termina Eng. No.	AWG	mm²	mm	In.	mm	ln.
19202-0007	A-945-DKT	22-18	0.35 - 0.80	4.09/3.73	.161/.147 Funnel	7.92	.312
19202-0012	AS-932-DKT	22-18	0.35 - 0.80	4.09/3.73	.161/.147 Funnel	7.92	.312
19202-0064	A-945-DKBT	22-18	0.35 - 0.80	4.09/3.73	.161/.147 Funnel	7.92	.312

DEFINITION OF TERMS

The following illustrations are a generic terminal representation and not an exact image of any terminal listed in the scope.

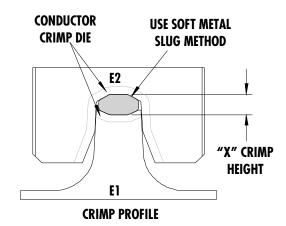


Doc No. 63885-6100 Revision: A Release Date: 05-24-05 Revision Date: 05-24-05

Tool Calibration

To recalibrate this Applicator, make sure the power is completely shut off on the press.

- The Mini-Mac applicator must be properly installed in the press.
- Crimping dies must be properly installed in the Mini-Mac applicator.
- The recommended method of measuring the crimp height of the conductor dies is the soft metal slug method, (See Figure 4).
- 4. The slug must have a diameter 0.51mm (.020") larger than the "X" No Go dimension before crimping.
- Place the soft metal slug (solder) into the nest of the bottom die and crimp (by hand cycling the press) similar to a terminal. The crimp height can be measured with a blade type micrometer or dial caliper, (Dimension "X").
- 6. Adjustment of the crimp height can be accomplished by indexing the conductor cam. The letter "A" gives the loosest position and "K" gives the tightest position. A total adjustment of 0.50mm (.020") can be achieved by adjusting the conductor cam.



Use soft metal slug (solder) method to measure the "X" dimension. Verify tooling crimp height calibration by referring to the Go/No Go dimensions shown in the chart below.

Figure 2

Note: If the crimp height is too tight on the setting "A", check the shut height of the press. See the Industrial Mini-Mac Applicator Manual Section 2.1 for adjustments.

CRIMP SPECIFICATIONS

Wire	Size	"X" Dimension Conductor Crimp Pull For					rce Min.		
AWG	mm²	Me	ean	G	io	No	Go	Lbs	N
AWG	mm-	In	mm	In	mm	In	mm	rn2	N
22	0.35	.093	2.36	.090	2.28	.097	2.46	8	35.6
20	0.50	.093	2.36	.090	2.28	.097	2.46	10	44.5
18	0.80	.093	2.36	.090	2.28	.097	2.46	10	44.5

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

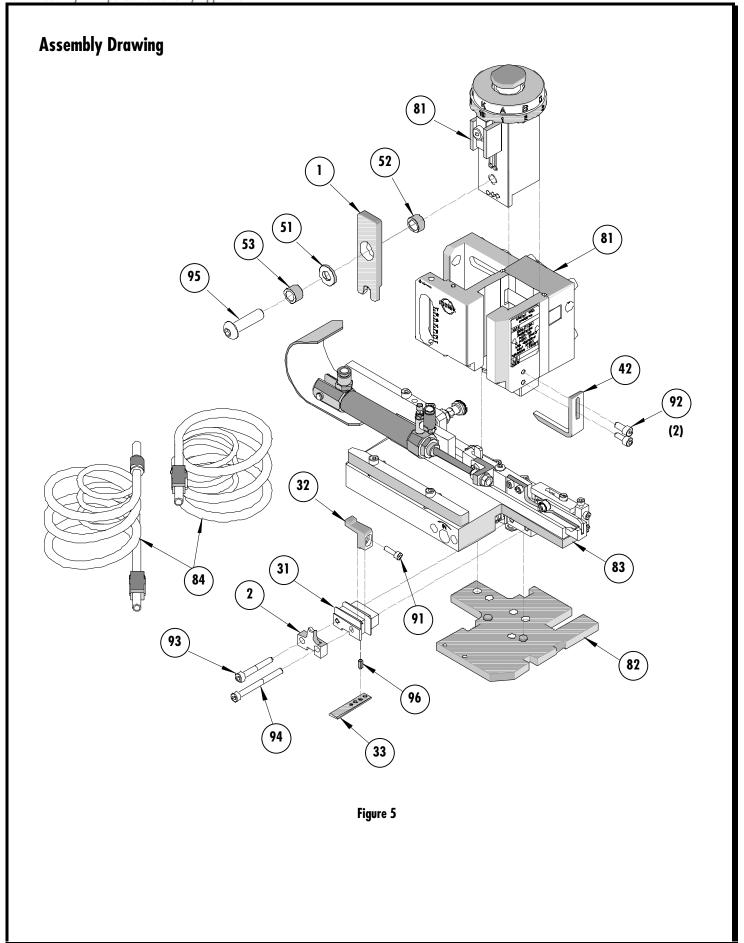
Doc No. 63885-6100 Release Date: 05-24-05 **UNCONTROLLED COPY** Page 3 of 7 Revision Date: 05-24-05

PARTS LIST

Mini-Mac Applicator 63885-6100								
ltem	Order No	Engineering No.	Description	Quantity				
Perishable Tooling								
	63885-6170	63885-6170	Tool Kit (All "Y" Items)	REF				
1	63465-0041	63465-0041	Conductor Punch	1 Y				
2	63464-0042	63464-0042	Conductor Anvil	1 Y				
Other Components (Ref. 50050)								
31	63466-0912	63466-0912	Anvil Mount	1				
32	63466-0913	63466-0913	Terminal Support	1				
33	63443-0021	63443-0021	Lower Tooling Key	1				
42	63466-0921	63466-0921	Terminal Stripping Blade	1				
51	63600-1290	63600-1290	Washer	1				
52	63890-0866	63890-0866	Collar-6.4 Lg.	1				
53	63890-0867	63890-0867	Collar-9.5 Lg.	1				
		Fr	ame					
81	63801-3301	63801-3301	Air Feed Applicator Frame Head	REF				
82	63801-3281	63801-3281	Base	REF				
83	63801-5850	63801-5850	Track Assembly	REF				
84	63801-3390	63801-3390	Air Kit	REF				
		Har	dware					
91	N/A	N/A	M3 by 12 Lg SHCS	1**				
92	N/A	N/A	M4 by 10 Lg SHCS	2**				
93	N/A	N/A	M4 by 16 Lg. SHCS	1**				
94	N/A	N/A	M4 by 45 Lg. SHCS	1**				
95	N/A	N/A	M8 by 30 Lg. BHCS					
96	N/A	, ,						
**	** Available from an industrial supply company such as MSC (1-800-645-7270).							

Note: Crimp profiles used in 63885-6100 are equivalent to 19032-0023 (UL file number E32244).

Doc No. 63885-6100 Revision: A Release Date: 05-24-05 Revision Date: 05-24-05



Doc No. 63885-6100 Revision: A Release Date: 05-24-05 Revision Date: 05-24-05

NOTES

- Molex recommends an extra perishable tooling kit be maintained at your facility.
- Verify tooling alignment by manually cycling the press with applicator before crimping under power. Check that all screws are
- Slugs, terminals, dirt, and oil should be kept clear of work area. 3.
- 4. Wear safety glasses at all times.
- 5. For recommended maintenance refer to the Mini-Mac Applicator Manual (Document no. 63880-0000).

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.

Molex Application Tooling Group

1150 E. Diehl Road Naperville, IL 60563 Tel: (630) 969-4550 Fax: (630) 505-0049

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

Doc No. 63885-6100 Release Date: 05-24-05 **UNCONTROLLED COPY** Page 6 of 7 Revision Date: 05-24-05