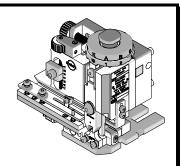


Mini-Mac Applicator Application Tooling Specification Mechanical Feed - Continuous Molded Strip Order No. 63883-2600



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 cut-off tooling 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: Insulkrimp® Male and Female Couplers 14-22 AWG

Testing

Mechanical

The tensile test, or pull test, is a means of evaluating the mechanical properties of the crimped connections. The following charts show 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)

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^{*}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

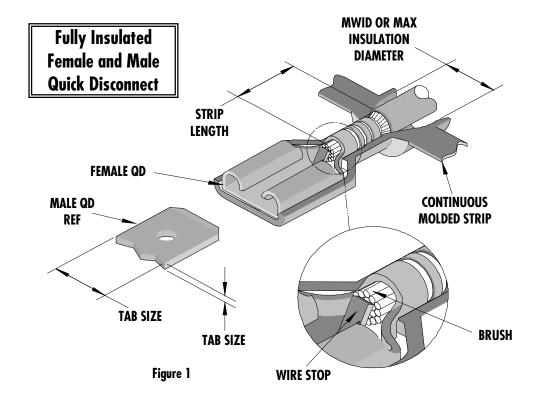
Product List

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 Di	Strip Length		
	Termina Eng. 140.	AWG	mm²	mm	ln.	mm	ln.
19005-0003	AA-2261C	22-18	0.35-0.80	4.19	.165	7.92	.312
19005-0008	BB-2263C	16-14	1.30-2.00	4.19	.165	7.92	.312

DEFINITION OF TERMS

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



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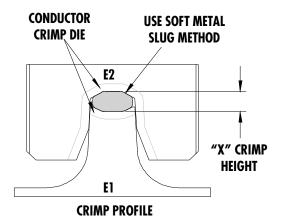
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Tool Calibration

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.
- 3. The recommended method of measuring the crimp height of the conductor dies is the soft metal slug method, (See Figure 2).
- 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.

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.



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

CRIMP SPECIFICATIONS

Wire Size		"X" Dimension Conductor Crimp						Pull Force Min.	
AWG	mm²	Mean		Go		No Go		Lbs	N
		ln	mm	ln	mm	ln	mm	LD2	N
22	0.35	.100	2.54	.097	2.46	.104	2.64	8	35.6
20	0.50	.100	2.54	.097	2.46	.104	2.64	13	57.8
18	0.80	.100	2.54	.097	2.46	.104	2.64	20	90.0
16	1.30	.100	2.54	.097	2.46	.104	2.64	30	133.5
14	2.00	.100	2.54	.097	2.46	.104	2.64	50	222.4

The above specifications are guidelines to an optimum crimp.

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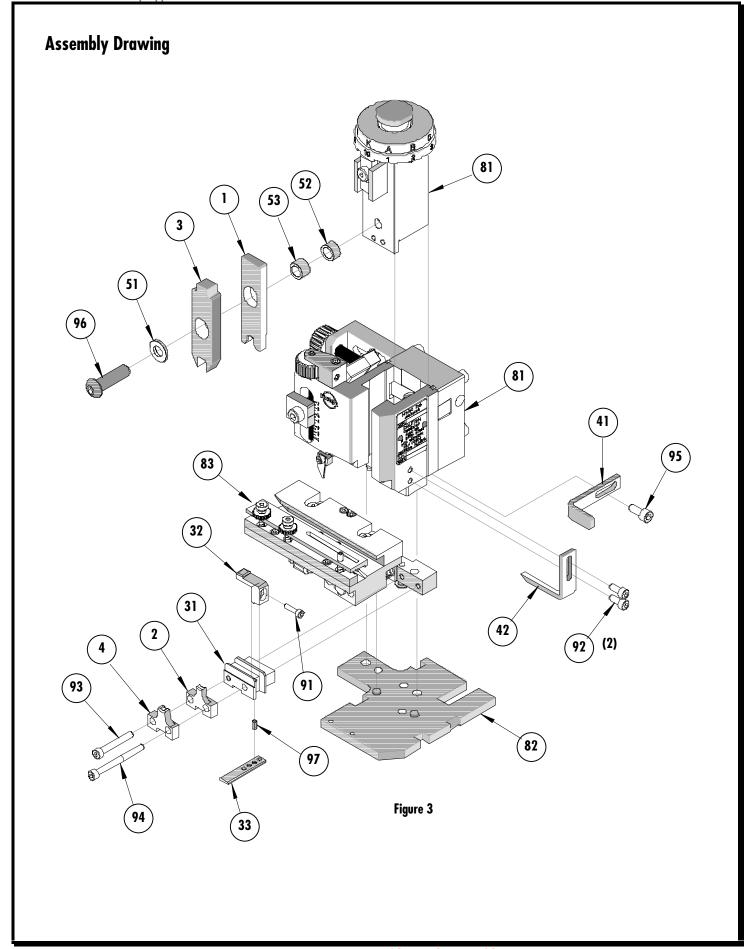
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PARTS LIST

Mini-Mac Applicator 63883-2600									
Item	Order No Engineering No. Description		Quantity						
Perishable Tooling									
	63883-2670	63883-2670	Tool Kit (All "Y" Items)	REF					
1	63465-0018	63465-0018	Conductor Punch	1 Y					
2	63464-0018	63464-0018	Conductor Anvil	1 Y					
3	63469-0005	63469-0005	Cut-off Punch	1 Y					
4	63462-0008	63462-0008	Cut-off Anvil	1 Y					
Other Components (Ref. 30050)									
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					
41	63466-0931	63466-0931	Terminal Nose Support	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	63890-0868	63890-0868	Collar-9.5 Lg.	1					
			Frame						
81	63801-3201	63801-3201	Mechanical Feed Applicator Frame Head	REF					
82	63801-3281	63801-3281	Base	REF					
83	63801-4450	63801-4450	Track Assembly	REF					
	Hardware								
91	N/A	N/A	M3 by 12 Lg. SHCS]**					
92	N/A	N/A	M4 by 10 Lg. SHCS	2**					
93	N/A	N/A	M4 by 20 Lg. SHCS	1**					
94	N/A	N/A	M4 by 45 Lg. SHCS	1**					
95	N/A	N/A	M5 by 12 Lg. SHCS]**]**					
96	N/A	N/A	M8 by 30 Lg. BHCS						
97	N/A	N/A	3mm by 6 Lg. Roll Pin 1**						
	** Available from an industrial supply company such as MSC (1-800-645-7270).								

Note: Crimp profiles used in 63883-2600 are equivalent to 19030-0062/MMC-AB-263 (UL file number E79133).

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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 process 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

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

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