

Application Tooling

Semiautomatic Machines

AMP-O-LECTRIC Model "G" Terminating Machines, 354500-1, -9, -11



Semiautomatic bench machines for crimping reeled terminals and contacts, featuring a quiet and reliable direct motor drive, microprocessor controls for ease of setup and operation, and guarding and lighting designed for operator convenience and safety. All models are equipped with either manual or automatic precision adjustment of crimp height. Machine-mounted sensors are available for crimp quality monitoring using conventional miniature-style applicators.

Specifications

Width—18.7-25.3 [475-643] depending on applicator type

Depth—21.5-28.1 [546-713] depending on applicator type

Height—20 [508]

Weight—240 lb [110 kg]

Electrical—120 or 220 VAC, 50 or 60 Hz

Air—90-110 psi [6.21-7.59 bar], 6 scfm [0.00282 m³/s] when required with air-feed applicators

Wire Range—26-10 AWG [0.12-6 mm²] solid or stranded, depending on product applied

For more information, request Catalog **65828**, Catalog **82275** [Crimp Quality Monitor (CQM)].

AMP-O-MATIC Stripper-Crimper Machine, 854040-3, -4



Semiautomatic bench crimping machines that also strip the wire, and are therefore used for terminating jacketed cable. Feature manual precision adjustment of crimp height, keyed strip blades for faster, more accurate setups, and an efficient scrap removal system. All adjustments can be made from the front of the machines without special tools. Available with crimp quality monitoring.

Specifications

Width—14 [355]

Depth—18 [457]

Height—33 [838] without reel

Weight—150 lb [68 kg]

Electrical—120 VAC, 50 or 60 Hz, .5 A

Air—80-100 psi [5.52-6.90 bar], 3.5 scfm [0.00165 m³/s]

Wire Range—32-14 AWG [0.03-2 mm²]

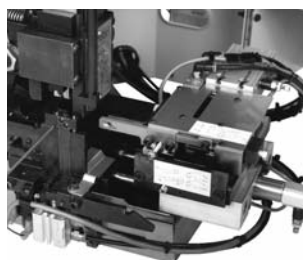
For more information, request Catalog **65004**.

AMP 3K/40 and AMP 5K/40 Terminators



As value oriented terminators, the AMP 3K/40 and AMP 5K/40 are designed for customers that require the increased output and quality of a semi-automatic machine at a competitive price. By incorporating the most commonly requested features as standard and offering a long list of optional equipment, these terminators offer flexibility to meet the specific needs of various applications at the lowest possible cost.

Optional Stripping Module for the AMP 3K/40, AMP 5K/40 and AMP-O-LECTRIC Model G Terminators



The combination of the Stripping Module with the AMP-O-LECTRIC Model G Terminator or the AMP 3K/40, 5K/40 provides an economical, proficient method of stripping wire and crimping terminals on the same machine. Wires are stripped moments before crimping, meaning there is virtually no chance of damaging wire conductors during handling or storage. Once the wire is fed into the start sensor the Stripping Module does the rest, improving placement accuracy.

For more information, request Catalog **1309085**.

Crimp Quality Monitor



This system measures the crimp height of each termination as it is made. It also evaluates the quality of each crimp. If a crimp is questionable, the monitor alerts the operator with both visual and audible alarms. It also features ports for printing and networking. For use with AMP-O-LECTRIC Model "G" and AMP-O-MATIC Stripper-

Crimper Machines, the monitor is mounted to the machine. For use with AMPOMATOR CLS IV+ Machines, it is integrated into the machine's operating system, with the displays appearing on the machine's touch screen.

For more information, request Catalog **82275**.

Note: This listing is for reference purposes only. To obtain part numbers for specific applications call Technical Support.

Application Tooling (Continued)

Automatic Machines

AMPOMATOR System III Leadmaker



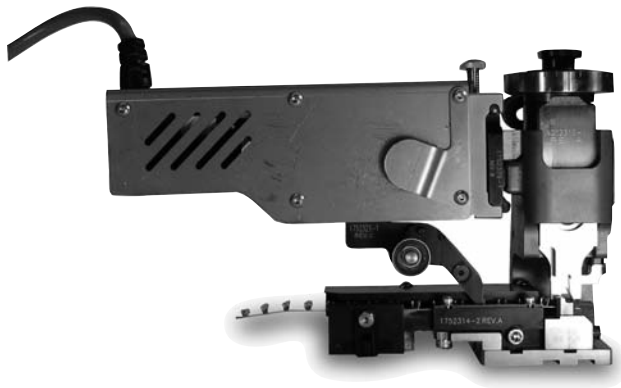
The AMPOMATOR System III Leadmaker is designed for the demands of low-volume/high-mix manufacturing and precision quality. This leadmaker combines the best wire processing capabilities with

new technologies in terminal feeding and machine set-up found in the System III Applicator to offer significant advantages for higher throughput and efficiencies. Request Catalog 1654956-5.

AMPOMATOR CLS IV+ Lead-Making Machines, 356500-1, -2



System III Applicator



The System III Applicator introduces several new technologies into the applicator including a precision servo-electric motorized feeding system, a built-in data module for storing terminal crimp and

set-up information, a precision fit round ram, and a newly designed terminal depressor. It still utilizes the proven quality of the HD-M crimper and anvil tooling.

Fully-automatic machines that measure, cut, strip and terminate single leads. Microprocessor-controlled, and programmed and operated using an easy-to-follow, menu-driven touchscreen. Features include direct-drive terminating units with precision crimp height adjustment, fully programmable setups, wire runout and splice detection, and motorized pre-feed with wire straightener. Crimp quality monitoring is also available.

Specifications

Width—159 [4 039]

Depth—68 [1 730]

Height—90 [2 285] min., with 24 [610] dia. reel

Weight—2 000 lb [907 kg]

Electrical—220 VAC, 50 or 60 Hz, 1 ϕ , 20 A with neutral and ground

Air—90 psi [6.21 bar], 15 scfm [0.00708 m³/s] sustained

Wire Range—26-10 AWG [0.12-6 mm²] stranded, 26-16 AWG [0.12-1.4 mm²] solid

Lead Lengths—3-90 [76.2-2 286], 90-1 000 [2 286-25 400] with long lead conveyors

For more information, request Catalog 124324.

EDGE Electronic Applicator Counter



The new, versatile EDGE applicator counter tracks wearable tool usage for the most effective maintenance planning. The completely electronic counter, with clear LCD display, indicates cycles since installation. By performing maintenance at measured intervals with pre-set

limits, operators avoid breakdowns and rejects caused by tool wear or mis-adjustment.

For more information, request Catalog 1773385.

Application Tooling (Continued)

Applicator Styles

End- and Side-Feed Heavy-Duty Miniature (HDM) Applicators



- Handle a wide variety of products
- Used with both semi- and fully-automatic machines
- Quickly interchangeable to run different products
- Easily repaired
- Simple dial-in settings to handle similar products and various wire sizes

Stripper-Crimper (SCA) Applicators



- For use with AMP-O-MATIC Stripper-Crimper Machines
- Terminate a wide variety of open-barrel products
- Quickly interchangeable to run different products
- Easily repaired
- Simple dial-in settings to handle similar products and various wire sizes
- CQM applicators are available

Crimp Quality Monitor (CQM) Applicators



- Same basic features as regular HDM and SCA applicators
- Recommended for use with machines featuring manual or automatic precision-adjust
- Use two built-in sensors to provide the Crimp Quality Monitor with data to measure crimp height, and evaluate the quality of each crimp

Applicator and Hand Tool Selection Guide

Related Product Data

Contacts

- 2.5 mm Signal Double Lock (SDL)—page 12
- Micro MATE-N-LOK 3 mm—page 22
- Grace Inertia Connectors (GIC) 3.5—page 50
- .062 Commercial Pin and Socket—page 55
- Power Double Lock (PDL)—page 61
- Mini Universal MATE-N-LOK—page 84
- Mini Universal MATE-N-LOK 2—pages 100-101
- (MR) Miniature Rectangular—page 112
- VAL-U-LOK Connector System—page 120
- AMP-DUAC—pages 126-127
- 5.0 mm Power Key Connectors (PKC)—page 137
- .093 Commercial Pin and Socket—page 145
- Commercial MATE-N-LOK—pages 155-156
- .140 MATE-N-LOK—page 166
- Universal MATE-N-LOK—pages 172-173
- Universal MATE-N-LOK II—page 192
- .156 MATE-N-LOK—page 203

Density	Product Line	Applicators			Hand Tools	
		A	B	C	D	E
High	2.5 mm Signal Double Lock (SDL)	*	*	*	X	-
	Micro MATE-N-LOK 3 mm	X	X	X	X	-
	Grace Inertia Connectors (GIC) 3.5	*	*	*	X	-
	.062 Commercial Pin and Socket	X	X	X	-	X
	Power Double Lock (PDL)	*	*	*	X	-
	Mini-Universal MATE-N-LOK	X	X	X	X	X
	Sealed Mini-Universal MATE-N-LOK	X	X	X	X	-
	Mini-Universal MATE-N-LOK 2	X	X	X	X	X
	(MR) Miniature Rectangular	X	X	X	X	-
	VAL-U-LOK Connector System	X	-	-	-	X
Standard	AMP-DUAC	X	X	-	X	-
	5.0 mm Power Key Connectors (PKC)	*	*	*	X	-
	.093 Commercial Pin and Socket	X	X	X	-	X
	Commercial MATE-N-LOK	X	X	X	X	X
	.140 MATE-N-LOK	X	X	X	X	-
	Universal MATE-N-LOK	X	X	X	X	X
	Universal MATE-N-LOK II	X	X	X	X	X
	.156 MATE-N-LOK	X	-	-	X	-

A—Heavy Duty Miniature (HDM) Applicators

B—Stripper-Crimper Applicators (SCA)

C—Crimp Quality Monitor (CQM) Applicators

D—CERTI-CRIMP Hand Tool

E—PRO-CRIMPER III Commercial Hand Tool

* Contact the Tooling Assistance Center (TAC) at 1-800-722-1111 for Applicator Part Numbers.

Mechanical Hand Tools

CERTI-CRIMP II Straight Action Hand Tools (SAHT) 91501-1, 91502-1



Premium grade hand tools. Feature ratchet control to provide complete crimp cycle. Die sets close in a straight line. Include a contact locator and wire stop, plus an insulation crimp

adjustment lever, when applicable. Approximate weight 1.3 lb [0.59 kg] For more information, request Catalog **65780**.

Note: This listing is for reference purposes only. To obtain part numbers for specific applications call Technical Support.

Application Tooling (Continued)

Hand Tools

Related Product Data

Contacts

2.5 mm Signal Double Lock (SDL)—page 12
Micro MATE-N-LOK 3 mm—page 22
Grace Inertia Connectors (GIC) 3.5—page 50
.062 Commercial Pin and Socket—page 55
Power Double Lock (PDL)—page 61
Mini Universal MATE-N-LOK—page 86
Mini Universal MATE-N-LOK 2—pages 100-101
(MR) Miniature Rectangular—page 112
VAL-U-LOK Connector System—page 120
AMP-DUAC—pages 126-127
5.0 mm Power Key Connectors (PKC)—page 137
.093 Commercial Pin and Socket—page 145
Commercial MATE-N-LOK—pages 155-156
.140 MATE-N-LOK—page 166
Universal MATE-N-LOK—pages 172-173
Universal MATE-N-LOK II—page 192
.156 MATE-N-LOK—page 203

CERTI-CRIMP II Hand Tool



Catalog 65780

PRO-CRIMPER III Hand Tool



Catalog 82276

Features	CERTI-CRIMP Hand Tool	PRO-CRIMPER III Hand Tool
Field Repair/Prototyping	X	X
OEM Applications/Low Volume Production	X	—
Ratchet Control	X	X
Brush/Bellmouth Control	X	X
Precision Crimp Height Control	X	X
Little/No Operator Training	X	—
Insulation Adjustment	X	—
Repairable	X	—

Density	Product Line	CERTI-CRIMP Hand Tool		PRO-CRIMPER III Hand Tool	
		Part Number	Instruction Sheet	Part Number	Instruction Sheet
High	2.5 mm Signal Double Lock (SDL)	234603-1	411-5735	—	—
		234604-1	411-5736	—	—
	Micro MATE-N-LOK 3 mm	91501-1	408-8547	—	—
		91502-1	408-8547	—	—
	Grace Inertia Connectors (GIC) 3.5	1596277-1	411-78101	—	—
		—	—	90870-1	408-9965
	.062 Commercial Pin & Socket	—	—	90869-1	408-9964
		91567-1	408-8547	—	—
	Power Double Lock (PDL)	91569-1	408-8547	—	—
		91529-1	408-8547	90758-1	408-9938
	Mini-Universal MATE-N-LOK and Sealed Mini-Universal MATE-N-LOK	91522-1	408-8547	90759-1	408-9962
		91594-1	408-8547	90760-1	408-9963
	Mini-Universal MATE-N-LOK 2	90717-2	408-4443	—	—
		91529-1	408-8547	—	—
	(MR) Miniature Rectangular	91522-1	408-8547	—	—
		91594-1	408-8547	—	—
	VAL-U-LOK Connector System	91534-1	408-8547	58514-1	408-9973
		91526-1	408-8547	58514-1	408-9973
	AMP-DUAC	—	—	91387-1	408-8917
		90714-1	408-4385	91388-1	408-8918
Standard	5.0 mm Power Key Connectors (PKC)	734202-2	—	—	—
		—	—	—	—
	.093 Commercial Pin & Socket	—	—	90872-1	408-9967
		—	—	90871-1	408-9966
	Commercial MATE-N-LOK	91515-1	408-8547	—	—
		91512-1	408-8547	90574-1	408-9886
	.140 MATE-N-LOK	91504-1	408-8547	90575-1	408-9887
		91552-1	408-8547	—	—
	Universal MATE-N-LOK and Universal MATE-N-LOK II	69710-1 ¹	408-2095	—	—
		58373-1 ²	408-9442	—	—
	.156 MATE-N-LOK	58374-1 ²	408-9442	—	—
		58439-1	408-9591	—	—
	Universal MATE-N-LOK and Universal MATE-N-LOK II	91510-1	408-8547	90548-1	408-9885
		91500-1	408-8547	90546-1	408-9883
	.156 MATE-N-LOK	91508-1	408-8547	90547-1	408-9884
		91506-1	408-8547	90547-1	408-9884
	.156 MATE-N-LOK	69710-1 ¹	408-2095	—	—
		58380-1 ²	408-9433	—	—
	.156 MATE-N-LOK	58380-2 ²	408-9433	—	—
		58631-1	408-4341	—	—
	.156 MATE-N-LOK	58632-1	408-4340	—	—
		—	—	—	—

¹Hand tool requires die set.

²Die set.

Note: This listing is for reference purposes only. To obtain part numbers for specific applications call Technical Support.

Applicator Options

	Strip Form Contact Part Number		Heavy-Duty Miniature Applicator Part Numbers			
			Used on Bench Top Terminators		Used on Automatic Leadmaking Equipment (AMPOMATOR CLS Machine with T or G Terminators)	Used on AMP-O-MATIC Stripper-Crimper Machine
	Pin	Socket	AMP-O-LECTRIC Model K Machine	AMP-O-LECTRIC Model G Machine		
2.5 mm Signal Double Lock (SDL) Contacts	917764-1	917683-1	*	*	*	*
	917765-1	917684-1	*	*	*	*
Micro MATE-N-LOK 3 mm Connector System	1-794608-0	—				
	1-794608-1	—	1385194-2	1385194-3	1385194-1	—
	1-794608-2	—				
	1-794609-0	—				
	1-794609-1	—	1385377-2	1385377-3	1385377-1	—
	1-794609-2	—				
	—	794606-1				
	—	1-794606-1	680893-2	680893-3	680893-1	—
	—	1-794606-2				
	—	794607-1				
	—	1-794607-1	680894-2	680894-3	680894-1	—
	—	1-794607-2				
Grace Inertia Connectors (GIC) 3.5	1565080-1	1565079-1	*	*	*	*
	1612335-1	1612334-1	*	*	*	*
.062 Commercial Pin and Socket Contacts	640391-1	640392-1				
	640391-5	640392-5				
	—	640392-2	466686-2	466686-3	466686-1	466955-1
	—	794046-1				
	350629-1	350628-1				
	—	350628-2				
	350629-5	350628-5	687996-2	687996-3	687996-1	—
	—	350628-6				
Power Double Lock (PDL)	—	794103-1				
	177916-1	177914-1	*	*	*	*
	—	177914-2†	*	*	*	*
	177917-1	177915-1	*	*	*	*
	—	177915-2†	*	*	*	*
	† High contact pressure type.					
Mini-Universal MATE-N-LOK Contacts	770835-1	770834-1	567418-2	567418-3	567418-1	—
	1-770835-0	1-770834-0				
	770901-1	770902-1				
	1-770901-0	1-770902-0	567066-4	567066-5	567066-3	466990-2
	770903-1	770904-1				
	1-770903-0	1-770904-0	567067-2	567067-3	567067-1	466986-1
	171636-1	171637-1				
Mini-Universal MATE-N-LOK 2 Contacts	—	171637-3	680582	567251-1	680582	567902-1
	794216-1	794217-1				
	1-794216-0	1-794217-0	567418-2	567418-3	567418-1	—
	794218-1	794219-1				
	1-794218-0	1-794219-0	567066-4	567066-5	567066-3	466990-2
	794220-1	794221-1				
	1-794220-0	1-794221-0	680854-2	680854-3	680854-1	466986-1
	794222-1	794223-1				
(MR) Miniature Rectangular Contacts	1-794222-0	1-794223-0	680582-2	680582-3	—	567902-1
	350968-1	794000-1				
	350968-2	794000-2	466352-2	466352-3	466352-1	—
	350967-1	641294-1				
	350967-2	641294-2	466351-2	466351-4	466351-1	466913-1
	350969-1	—				
	350969-2	—	466351-2	466351-4	466351-1	466913-1

Note: Stripper Crimper (SCA) and Crimp Quality Monitor Applicators may be available. Call Technical Support for Part Numbers.

* Contact the Tooling Assistance Center (TAC) at 1-800-722-1111 for Applicator Part Numbers.

Note: All part numbers are RoHS Compliant.

Applicator Options (Continued)

	Strip Form Contact Part Number		Heavy-Duty Miniature Applicator Part Numbers			
	Pin	Socket	Used on Bench Top Terminators		Used on Automatic Leadmaking Equipment (AMPOMATOR CLS Machine with T or G Terminators)	Used on AMP-O-MATIC Stripper-Crimper Machine
			AMP-O-LECTRIC Model K Machine	AMP-O-LECTRIC Model G Machine		
VAL-U-LOK Connector System	794955-1	794956-1				
	794955-2	794956-2				
	794955-3	794956-3	1385817-2	1385817-3	1385817-1	—
	794955-4	794956-4				
	794957-1	794958-1				
AMP-DUAC	794957-2	794958-2				
	794957-3	794958-3	1385448-2	1385448-3	1385448-1	—
	794957-4	794958-4				
	794576-1	106529-2				
		1-794138-3	680308-2	680308-3	—	567959-1
5.0 mm Power Key Connectors (PKC)	794578-1	106528-2				
		1-794139-3	680307-2	680307-3	—	567960-1
	—	1-794140-3				
		794418-1	680350-2	680350-3	—	—
	—	1376347-1	*	*	*	*
.093 Commercial Pin and Socket Contacts	—	1376348-1	*	*	*	*
	350418-1	350417-1				
	—	350417-3	466656-2	466656-3	466656-1	466922-1
	350418-5	350417-5				
	350416-1	350415-1				
Commercial MATE-N-LOK Contacts	350416-5	350415-5	466878-2	466878-3	466878-1	466959-1
	770530-1	770529-1	567337-4	567337-6	567337-3	—
	770385-1	770383-1	567273-2	567273-4	567273-3	—
	—	—				
	350079-1	350078-1				
	350079-4	350078-4	466426-2	466426-3	466426-1	—
	350079-5	350078-5				
	61116-1	61314-1				
	61116-4	61314-4				
	61116-5	61314-5	466320-2	466320-4	466320-1	466917-1
	61116-6	61314-6				
	61116-7	61314-7				
	61118-1	61117-1				
	61118-4	61117-4				
	61118-5	61117-5	687763-2	687763-6	687763-1	466920-1
	61118-6	61117-6				
	61118-7	61117-7				
	350558-1	350557-1				
	350558-4	350557-4	687898-2	687898-4	687898-1	—
	61527-2	—	466320-2	466320-4	466320-1	466917-1
.140 MATE-N-LOK Contacts	61627-1	61626-1				
	61627-2	61626-2	567306-2	567306-3	567306-1	—
	350201-1	350200-1				
	350201-2	350200-2	567309-2	567309-3	567309-1	—
	350924-1	350925-1				
Universal MATE-N-LOK Contacts	350924-6	350925-6	466616-2	466616-3	—	—
	350561-1	350851-1				
	—	350570-1				
	350561-2	350851-2				
	—	350570-2				
	350561-7	350851-7	466320-2	466320-4	466320-1	466917-1
	—	350570-7				
	350561-3	350570-3				
	—	350570-6				

Note: Stripper Crimper (SCA) and Crimp Quality Monitor Applicators may be available. Call Technical Support for Part Numbers.

* Contact the Tooling Assistance Center (TAC) at 1-800-722-1111 for Applicator Part Numbers.

Note: All part numbers are RoHS Compliant.

Applicator Options (Continued)

**Universal
MATE-N-LOK
Contacts** (Continued)

**Universal
MATE-N-LOK II
Contacts**
**.156 MATE-N-LOK
Contacts**

Strip Form Contact Part Number	Pin	Socket	Heavy-Duty Miniature Applicator Part Numbers			
			Used on Bench Top Terminators		Used on Automatic Leadmaking Equipment (AMPOMATOR CLS Machine with T or G Terminators)	Used on AMP-O-MATIC Stripper-Crimper Machine
			AMP-O-LECTRIC Model K Machine	AMP-O-LECTRIC Model G Machine		
350218-1	350218-1	350536-1				
350218-2	350218-2	350536-2				
350218-7	350218-7	350536-7	687763-2	687763-6	687763-1	466920-1
350218-3	350218-3	350536-3				
350218-6	350218-6	350536-6				
350538-1	350538-1	350537-1				
350538-2	350538-2	350537-2				
350538-7	350538-7	350537-7	687926-2	687926-6	687926-1	466989-1
350538-3	350538-3	350537-3				
350538-6	350538-6	350537-6				
350873-1	350873-1	350874-1				
350873-3	350873-3	350874-3	466588-2	466588-3	466588-1	—
350922-3	350922-3	350923-3				
350922-6	350922-6	350923-6	466597-2	466597-3	466597-1	—
350922-4	350922-4	350923-4				
350699-1	350699-1	—				
350699-2	350699-2	—	466320-2	466320-4	466320-1	466917-1
350699-7	350699-7	—				
350687-1	350687-1	—				
350687-2	350687-2	—	687763-2	687763-6	687763-1	466920-1
350687-7	350687-7	—				
350700-1	350700-1	—				
350700-2	350700-2	—	687926-2	687926-6	687926-1	466989-1
350700-7	350700-7	—				
770210-1	770210-1	—	567216-2	567216-3	567216-1	
350654-1	350654-1	—	687763-2	687763-6	687763-1	466920-1
770234-3	770234-3	—	466597-2	466597-3	466597-1	
770011-6	770011-6	770012-6	—	567252-4	567252-1	—
770009-1	770009-1	—				
1-770009-0	1-770009-0	—				
—	770010-3	—	—	567214-4	567214-1	567914-1
—	1-770010-0	—				
770007-1	770007-1	—				
1-770007-0	1-770007-0	—				
—	770008-3	—	—	567213-4	567213-1	567913-1
—	1-770008-0	—				
770005-1	770005-1	—				
1-770005-0	1-770005-0	—				
—	770006-3	—	—	567212-4	567212-1	—
1-770005-1	1-770006-0	—				
770003-3	770004-3	—				
1-770003-0	1-770004-0	—	—	567211-4	567211-1	—
770193-1	770193-1	—				
1-770193-0	1-770193-0	—	—	567213-4	567213-1	567913-1
770194-1	770194-1	—				
1-770194-0	1-770194-0	—	—	567212-4	567212-1	—
61086-1	61086-1	61085-1	466462-1	466462-3	466462-1	—
61234-1	61234-1	61233-1	687765-2	687765-2	—	—

Note: Stripper Crimper (SCA) and Crimp Quality Monitor Applicators may be available. Call Technical Support for Part Numbers.

* Contact the Tooling Assistance Center (TAC) at 1-800-722-1111 for Applicator Part Numbers.

Note: All part numbers are RoHS Compliant.