



Special Crimping Machines for Loose Piece Terminals

Common Features of AT Crimping Machines for loose piece terminal applications

- Economic and flexible processing of loose piece terminals (LPT)
- Machine processing with common hand tool dies
- Improved ergonomics (the third hand for hand tool processing is no longer required)
- Easy to operate
- Loose piece terminal processing with different die formats
- Die change system with die adapters
- CE compliant



**AT-SC MK II Pneumatic
Safety Crimping Machine**



**AT-60 Pneumatic
Crimping Machine**



**AT-66 Hydraulic
Crimping Machine**

AT-SC MK II Pneumatic Safety Crimping Machine

Features

- Pneumatic crimping machine
- Straight action machine
- Parallel closing mechanism
- Safety system / working without protection cover
- Tool less adapter change
- LED work light
- Variable closing speed
- Terminal pre-centering system
- Short cycle time
- Electronics piece counter
- Ergonomic design

Applications

Crimping of insulated and non-insulated LP connectors with stranded wire. Max. crimp-force at 35 kN / 7868 lbs.

Applicable Die Adapters (die holder)

Standard adapter

- 2-528051-8* / AT-SC MK II, SDE die holder

* Accepts SDE die sets (for a list of available SDE die sets, refer to the chart on the following two pages.)

Die sets and special equipment available upon request.



Part Number

1-528050-0

Connector/Terminal-to-Tool Reference for AT-SC MK II Machine

Product Family	Catalog Number ¹	TE® Product	RG/U Cable ² Wire Size	Termination Type/Style	SDE Die Set Only
Coaxial Connectors	82074	50 Ohm BNC and TNC	RD 316, 180, 195, Belden 8218	"O"/Commercial	58539-1 ^S
			58, 62, 59	"O"/Commercial	58435-1 ^S
			Belden 9248, 9114	Hex/Commercial	58436-1 ^S
			174, 188, 316, 179, 161, 187	"O"/Commercial	58539-1 ^S
			62, 59	"O"/Commercial	318450-2 ^P
		50 Ohm BNC	Belden 9907, 89907, Comm/Scope 2104	"O"/Commercial	318452-2 ^P
			174, 188, 316, 179, 161, 187	Hex/Commercial	58436-3 ^S
			62, 59, Belden 9104, 9112	"O"/Commercial & Military	58537-1 ^S
			Belden 8281, 9141	Hex/Commercial	58436-2 ^S
			180, 195, Belden 8218, 9248, 9114	"O"/Commercial & Military	58538-1 ^S
			58	"O"/Commercial	58539-1 ^S
			62, 59	"O"/Military	220189-3 ^S
		75 Ohm BNC and TNC	6, Belden 8281	"O"/Commercial	58536-1 ^S
			6, Belden 8281	"O"/Commercial	58538-1 ^S
		75 Ohm BNC	179, 161, 187	"O"/Commercial	318451-2 ^P
			62, 59	Hex/Commercial	58425-2 ^S
			Double Braid 59, Belden 8281, 9141	Hex/Commercial	58425-1 ^S
			Belden 9248, 9114	Hex/Commercial	58425-3 ^S
			Belden 8218	"O"/Commercial	58536-1 ^S
		50 and 75 Ohm BNC	6, Belden 8281	"O"/Commercial	58174-1 ^S
		50 Ohm N	58, 62, 59	"O"/Commercial	58538-1 ^S
		Miniature UHF	8, 213, 11, 216, 9, 214	Hex/Commercial	58485-1 ^S
		Miniature UHF	58	Dual Crimp	220196-1 ^S
		50 Ohm SMB	174, 316, 188, 179, 161, 187, RD 316, 188 Double Braid	Hex/Commercial	58489-1 ^S
			178, 196, 174, 316, 188, 179, 161, 187	Hex/Military	58483-1 ^S
		50 and 75 Ohm Consumer BNC	58, 62, 59	Hex/Commercial	58046-1 ^S
			174, 316, 188, 179, 161, 187	"F" / "O"	58558-2 ^S
		Series F CATV Plugs	58, 6, 7 6.6, 8.2, 9.8 [0.259, 0.324, 0.384] Dia.	"F" / "O"	58559-2 ^S
			59, 6, 7 7.4, 8.7 [0.290, 0.343] Dia.	Hex/Commercial	58621-2 ^S
			59, 6 9.1 [0.360] Dia.	Hex/Commercial	58622-2 ^S
59, 6 9.1 [0.360] Dia.	Hex/Commercial		58663-2 ^S		
Braid-Pic Braid Termination	58, 62, 59	—	220195-1 ^S		
Terminals And Splices	82042	Insulated Terminals and Splices (PIDG and PLASTI-GRIP)	22-16 AWG [0.3-1.3 mm ²]	—	58423-1 ^{3,S}
			16-14 AWG [1.3-2.0 mm ²]		
			12-10 AWG [3.0-5.0 mm ²]		
	65505	Uninsulated Terminals and Splices (SOLISTRAND)	22-10 AWG [0.3-5.0 mm ²]	—	58545-1 ^S
	65472	Closed End Splices	ECV-ECN 18-16 AWG [0.8-1.3 mm ²]	—	217212-2 ^P
ECN 18-10 AWG [0.8-5.0 mm ²]					
Spare Wire Caps	0.048-0.225 [1.22-5.72] Ins. Dia.	ECV-ECN 18-10 AWG [0.8-5.0 mm ²]	—	—	
Receptacles and Tabs	82004	FASTON 250 Series Recpt.	18-14 AWG [0.8-2.0 mm ²]	—	58524-2 ^P
			14-10 AWG [2.0-5.0 mm ²]	—	58525-2 ^P
		0.110/0.125 in. Recpt.	26-14 AWG [0.13-2.0 mm ²]	—	58628-2 ^P
		Ultra-Fast FASTON 0.187/0.250 in. Recpt.			
		0.250 in. Tabs			
0.250 in. Recpt.	12-10 AWG [3.0-5.0 mm ²]	—	58630-2 ^P		

¹ Request catalog for detailed product information.

² Coaxial cable of similar size can be crimped. Request Catalog 82074 for a complete listing of possible cable sizes.

³ Not for use with PIDG FASTON receptacles; crimp not approved by UL or CSA.

P. Pin Die

S. Shoulder Die

Connector/Terminal-to-Tool Reference for AT-SC MK II Machine (continued)

Product Family	Catalog Number	TE® Product	Cable or Wire Size	SDE Die Set Only	
Fiber Optic Connectors	82164 and 296355	FSMA and ST-Style (S.S.) Connectors (504XXX Series only)	3.0 mm Jacket Dia.	58552-1 ^S	
		ST-Style, FC Type, D4 and AMP® SC Connectors	3.0 mm Jacket Dia.	58424-1 ^S	
		ST-Style (Ceramic) Connectors	3.8 mm Jacket Dia.	503890-1	
		FC Type and AMP® SC Connectors (Next Generation)	3.0 mm Jacket Dia.	503910-1 ^S	
		FSD, FSD MC and RSD Connectors; FSD Breakout Kit	DUALAN and LDD	58510-1 ^S	
		LightCrimp XTC Connectors (Ceramic/Polymer/S.S.)	3.0 mm Jacket Dia.	492622-1	
	1307099	LightCrimp Plus	ST-Style	3.0 mm Jacket Dia.	492622-1
			AMP® SC	3.0 mm Jacket Dia.	492783-1
—	—	Multimate Contacts	1 mm Plastic Fiber, 2.2 mm Jacket Dia.	217211-2 ^P	
Pin and Socket Connectors	82068	D-Subminiature 20 DF Pin and Socket Contacts (AMPLIMITE)	28-24 AWG [0.08-0.2 mm ²]	58448-3 ^P	
			24-20 AWG [0.2-0.6 mm ²]		
		D-Subminiature 22 DF Pin and Socket Contacts (AMPLIMITE)	28-22 AWG [0.08-0.3 mm ²]	90800-2 ^P	
			Type II Pin and Socket Contacts	24-14 AWG [0.2-2.0 mm ²]	58541-2 ^P
			Type III+ and Type VI Pin and Socket Contacts	28-24 AWG [0.08-0.2 mm ²]	58495-2 ^P
		24-20 AWG [0.2-0.6 mm ²]			
	18-16 AWG [0.8-1.4 mm ²]				
	82181	0.093 Soft Shell Commercial Pin and Socket Contacts	24-18 AWG [0.2-0.9 mm ²]	90872-2 ^P	
			20-14 AWG [0.6-2.0 mm ²]	90871-2 ^P	
			30-24 AWG [0.05-0.2 mm ²]	90870-2 ^P	
		0.062 Soft Shell Commercial Pin and Socket Contacts	24-18 AWG [0.2-0.9 mm ²]	90869-2 ^P	
			MR Pin and Socket Contacts	26-18 AWG [0.13-0.9 mm ²]	58514-2 ^P
		Universal MATE-N-LOK II and Universal MATE-N-LOK Pin and Socket Contacts	24-18 AWG [0.2-0.9 mm ²]	90548-2 ^P	
			20-14 AWG [0.6-2.0 mm ²]	90546-2 ^P	
			1.52-3.30 [0.060-0.130] Ins. Dia.		
			20-14 AWG [0.6-2.0 mm ²]	90547-2 ^P	
		3.30-5.08 [0.130-0.200] Ins. Dia.	12-10 AWG [3-5 mm ²]	58530-2 ^P	
			Mini-Universal MATE-N-LOK Pin and Socket Contacts	26-22 AWG [0.13-0.3 mm ²]	90758-2 ^P
				22-18 AWG [0.3-0.9 mm ²] or Two 22 AWG	90759-2 ^P
	Commercial MATE-N-LOK Pin and Socket Contacts	20-16 AWG [0.6-1.4 mm ²] or Two 20 AWG	90760-2 ^P		
24-18 AWG [0.2-0.9 mm ²]		90574-2 ^P			
—	Dynamic Series D-3 Contacts	20-14 AWG [0.6-2.0 mm ²]	90575-2 ^P		
		24-20 AWG [0.2-0.56 mm ²]	90683-2 ^P		
Receptacle and Tab Connectors	—	CST-100 Contacts	20-16 AWG [0.5-1.42 mm ²]	90684-2 ^P	
			26-22 AWG [0.13-0.3 mm ²]	58517-2 ^P	
	65481	AMPSEAL Automotive Receptacles	20-16 AWG [0.5-1.25 mm ²]	58529-2 ^P	
			AMP SUPERSEAL 1.5 SERIES Contacts	0.5-1.5 mm ²	58583-2 ^P
	124962	EI Series Receptacle Contacts	26-20 AWG [0.13-0.6 mm ²]	—	
			Universal Power Contacts	26-16 AWG [0.13-1.4 mm ²]	—
Modular Plugs	82066	Modular Plugs (10 Pos.)	28-24 AWG [0.08-0.2 mm ²] [†]	58560-2 ^P	
		Modular Plug Strain Relief	5.08 [0.200] Max. Ins. Dia.	852681-1 ^S	
PC Card Connectors	65701	INFOPORT Series III Shield Kit	3.43-3.81 [0.135-0.150] Ins. Dia.	224933-2 ^P	
Universal Data Connector Kits	82164	AMP® Crimp Ring	Type 1, 2, 6, 9 and MONTROSE	58450-1 ^S	

Request catalog for detailed product information.

[†] Terminates cable with 24 AWG [0.2 mm²] conductors with 0.039 [0.99] Max. O.D.

P. Pin Die

S. Shoulder Die

AT-60 Pneumatic Crimping Machine

Features

- Controlled back stroke
- Straight action machine
- Pneumatic safety control mechanism
- Tool less adapter change
- Short cycle time with reduced energy consumption
- Sequence control system
- Electronic work piece counter
- Ergonomic design
- Handy quick-exchange system of the adapter
- LED illumination of the working area

Applications

Crimping of insulated and non-insulated LP connectors with stranded wire. Maximum crimpforce of 75kN / 16,860 lbs

Applicable Die Adapters (die holder)

Standard adapter

- 2-528051-3* / AT-60, U Die Holder 22mm (standard)

* This adapter with the appropriate U die set (ordered separately) can be used to crimp the following:

- 8-2 SOLISTRAND terminals and splices (no flag terminals)
- 6-2 AMPPOWER terminals

Die sets and special equipment available upon request.



Part Number

528050-9

AT-66 Hydraulic Crimping Machine

Features

- Programmable
- Adaptive crimp force
- Fast changeover times
- Compact design
- Lockable user interface
- Short cycle time

Applications

Crimping of insulated and non-insulated LP connectors with stranded wire. Maximum crimpforce of 150 kN / 33721 lbs.

Applicable Die Adapters (die holder)

Standard adapter

- 528051-4 / AT-66, U-Die Adapter
- * This adapter with the appropriate U die set (ordered separately) can be used to crimp the following:
- 8-4/0 SOLISTRAND terminals and splices (no flag terminals)
 - 8-2 TERMINYL terminals
 - 6-4/0 AMPPOWER terminals

Die sets and special equipment available upon request.



Part Number

528050-6
528050-5 (EMEA version)

AT-66 Customized Applications

Applicator for HV Contacts used on Hydraulic Bench Machine AT-66

- Display for tooling selection and messages
- Automatic applicator detection
- Linked process steps
- Two hand release
- Cable clamp with cable detection
- European CE Conformity

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