WIRE PROCESSING SOLUTIONS

Automatic Cable Tie Tool Systems
Power-Assisted Cable Tie Tools
Mechanical Cable Tie Tools
Printing Systems
Labels

HellermannTyton

HellermannTyton is a leading, global manufacturer of systems and solutions which help world-class customers better manage and identify wire, cable, and components.

Located in over 30 countries, HellermannTyton offers an integrated approach in the design, manufacturing, and delivery of its products which result in higher quality and lower costs for our customers.

ARGENTINA | AUSTRALIA | AUSTRIA | BELGIUM | BRAZIL | CANADA | CHINA
CZECH REPUBLIC | DENMARK | FINLAND | FRANCE | GERMANY | HONG KONG
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HellermannTyton Systems

As an industry leader in the development and manufacture of cable tie installation tools and identification solutions, HellermannTyton provides a sustainable and distinctive competitive advantage to its customers through automation and process improvements. These improvements increase flexibility while exceeding labor savings, quality and ergonomic objectives. With its diverse line of products, HellermannTyton provides a complete package unique to the needs and production requirements of its customers.

HellermannTyton systems offer significant contributions to greater productivity, safety, and the "bottom-line."

- ***Lower Installed Costs***
- ***Reduce Labor Costs***
- ***Improve Quality & Consistency***
- ***Reduce Repetitive Motion Disorders***

Superior Service and Support

HellermannTyton offers support to meet the individual needs of the customer. Expert technicians are available for on-site training and an in-house team of service specialists provide telephone and online technical support. HellermannTyton is able to provide optimal service levels to eliminate downtime and enhance productivity.

"The support is top notch. They have never let me down.

The operators love this tool. It is easy to handle... the balance of the tool is perfect."

CUSTOM CABLE & WIRE HARNESS MANUFACTURER

"We're putting out the same production with half the people. We're able to do with one person in the same amount of time what required two people to do before. And there is much higher reliability of the equipment."

SENIOR MANUFACTURING ENGINEER, MANUFACTURER OF INDUSTRIAL AND COMMERCIAL CONTROLS

Cable Ties and Tool Systems

HellermannTyton's cable tie and tool systems are designed to work together to provide optimal consistency, quality, safety, and overall performance. Wrapping and hand tensioning a high quality cable tie is just the first step in assuring a high quality application. It is necessary to use one of HellermannTyton's cable tie tools to ensure that the cable tie is applied with just the right amount of tension and with a flush cut that won't leave a sharp edge. HellermannTyton leads the world in the development and manufacture of ergonomically designed, high performing cable tie tools in mechanical, power assisted, and automatic versions. With HellermannTyton's automatic cable tie systems, cable ties are applied, tensioned and cut-off to the correct tension in approximately one second. HellermannTyton's mechanical and power assisted tools expertly tension and cut-off hand applied cable ties.

AT2000 Automatic Cable Tie Tool — For automatic cable tie tool systems, see page 4

Consistency and Quality

By utilizing HellermannTyton's cable ties and tools together, a consistent tension and cut-off is achieved. When using non-approved methods of cutting off a cable tie, wire and cable can be crushed, the strap of the cable tie may be cut-off too deeply causing the tie to disengage, or the cable tie can be applied too loosely which can affect the bundling and securing properties of the application.

MK7P - Power Assisted Cable Tie Tool — For power assisted cable tie tools, see page 13

Safety

A flush cut is another benefit of using HellermannTyton's cable tie tools and ties as a system. Worker safety, and resulting reduction of workers' compensation claims, is an increasing priority of most companies. HellermannTyton's cable tie tools are ergonomically designed to reduce worker effort and causes of repetitive motion injuries. When using HellermannTyton's tools and cable ties, a flush cut is achieved, creating a smooth edge. When non- approved methods of applying a cable tie are used, a sharp edge is almost always left at the end of the tie - causing injury to workers and end-customers. All of HellermannTyton's cable tie tool systems offer adjustable tension and cut-off levels to assure optimal tensions and flush cut-offs.

Overall Performance

Used together, HellermannTyton's cable ties and ergonomically designed tool systems assure a high quality installation which prevents damage to wire and cable and potential rework due to inappropriately applied cable ties - all lowering installed costs while improving performance.

MK7 and MK9 Mechanical Cable Tie Tools — For mechanical cable tie tools, see page 16.

Automatic Cable Tie Systems

HellermannTyton's automatic cable tie tool systems are compact, fast, reliable, and versatile, accommodating a variety of wiring harness, and bundling and securing requirements. These tool systems are designed to provide significant labor and cost savings through process improvements, lower installed costs and greater consistency, quality and ergonomic benefits.

Product Features

- **Fast**
  Cable ties are installed quickly with one easy trigger depression, increasing productivity while decreasing labor costs.

- **Reliable**
  HellermannTyton's automatic cable tie systems have been tested to perform extremely consistently without interruption to work flow.

- **Ergonomic**
  The ergonomic design of the automatic cable tie tool systems feature a comfortable grip, low weight, and easy trigger depression to reduce installer effort and strain while installing cable ties.

- **Easy to Use - Providing Valuable Operator Feedback**
  Equipped with a self-diagnostic LED information panel, the automatic cable tie systems easily guide the user through the cycles of cable tie installations.

- **Automation**
  The automatic cable tie systems can be implemented into fully automated applications to further increase productivity and decrease labor costs.

- **Flexible Manufacturing/Versatility**
  HellermannTyton's automatic cable tie tool systems support principles of flexible manufacturing requirements and environments. The systems can be used in handheld, bench mount and overhead assembly configurations. The versatile overhead assembly option provides the ultimate integration to the customer's manufacturing area. HellermannTyton's automatic tools are powered by a standard 110 AC 24V (AT2000) and 110 AC 27 V (AT2060) electrical outlet that converts to a low DC voltage to the tool. All power systems offer the installer the mobility needed to tackle different harnessing requirements.

- **Uniform Fastening Quality**
  HellermannTyton's automatic cable tie systems feature adjustable tension control to deliver consistent levels of cable tie fastening.

- **Range**
  HellermannTyton offers the widest range of automatic cable tie tool systems which cover cable tie tensile strengths of 18, 30, and 50 pounds with bundle diameters between 1/16″ to over 3″.

ATS3080

An LED panel shows the status of the tool.

Product Selection

Article No.	Part No.	Max. Ø Bundle
120-00000	AT2000	.75″ (20 mm)
103-00000	AT2060	1.25″ (31 mm)
102-00000	ATS3080	3.14″ (80 mm)

AT2000

For bundles up to 3/4"

HellermannTyton's AT2000 completely installs cables ties on bundles up to 3/4" in diameter. This automatic cable tie tool is highly reliable and offers ergonomic benefits including low weight, easy trigger depression, a comfortable hand grip and correct balance—all which reduce operator strain. The AT2000 possesses an LED panel which makes it easier to maintain and operate the tool.

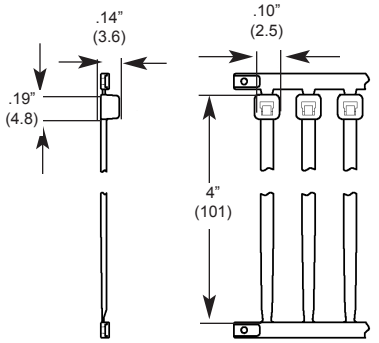
AT2000 Technical Specifications

Power Supply	**Electrical, with Power Pack or Battery Pack**
Cycle Time	**0.8 s**
Weight	**2.6lbs**
Installation	**Handheld, bench mount or overhead**
Tension Force	**Adjustable**

AT2000 Cable Tie Specifications

RoHS

Operating Temperature	
Natural Polyamide 6.6	**-40 °F to +185 °F (-40 °C to +85 °C) continuous**
Heat stabilized, black Polyamide 6.6	**-40 °F to +221 °F (-40 °C to +105 °C) continuous**
Natural, Stanyl Polyamide 4.6	**-40 °F to +275 °F (-40 °C to +135 °C) continuous**
Reel Diameter	**17.7 ″ (450)**
Reel Width	**5.20 ″ (132)**



AT2000 Cable Ties

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Product Selection

Article No.	Part No.	Type	Description	Min. Tensile Strength lbs. (N)	Max. Ø Bundle in. (mm)	Pkg. Qty.
120-00000	**AT2000**	Autotool 2000	Includes AT2000 tool, power supply, power cord, tool cord, and manual			1
120-00060	**120-00060**	Control Box	Control Box for linking AT2000 to automation			1
Natural Cable Ties						
120-40009	**T18RA50**	T18RA50-N66-NA	Cable ties on bandolier for use with the AT2000	18 lbs (80)	.75″ (20)	20,000 per carton includes: 50 per bandolier 500 per package
120-46009	**T18RA3500**	T18RA3500-N66-NA	Cable ties on reel for use with the AT2000	18 lbs (80)	.75″ (20)	14,000 per carton includes: 3,500 per reel 4 reels per carton
120-05009	**T18RA5000**	T18RA5000-N66-NA	Cable ties on reel for use with the AT2000	18 lbs (80)	.75″ (20)	10,000 per carton includes: 5,000 per reel 2 reels per carton
Black, Heat Stabilized Cable Ties						
120-40010	**T18RA50HSW**	T18RA50-HSW-BK	Cable ties on bandolier for use with the AT2000	18 lbs (80)	.75″ (20)	20,000 per carton includes: 50 per bandolier 500 per package
120-05010	**T18RA5000HSW**	T18RA5000-HSW-BK	Cable ties on reel for use with the AT2000	18 lbs (80)	.75″ (20)	10,000 per carton includes: 5,000 per reel 2 reels per carton
Natural, Stanyl Cable Ties						
120-04609	**T18RA5000HR**	T18RA5000HR-N46	Cable ties on reel for use with the AT2000	18 lbs (80)	.75″ (20)	10,000 per carton includes: 5,000 per reel 2 reels per carton

V/O rated ties can be made available for the AT2000. Various tie colors available upon request (Contact HellermannTyton for lead time). Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

For information on AT2000's Bench Mount System and Overhead Suspension Assembly see page 7-8.

For information on Wire Retainers for Harness Boards and AT2000's battery pack see page 9.

AT2060

HellermannTyton's AT2060 automatically installs cable ties for bundles up to 1-1/4″. The many ergonomic benefits include easy trigger depression and low weight that reduces operator effort and strain. Operation and maintenance of the tool are enhanced by the self-diagnostic LED panel located on the AT2060.

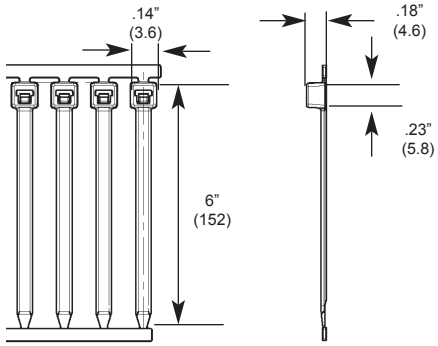
AT2060 Technical Specifications

Power Supply	**Electrical**
Cycle Time	**1.2 seconds**
Weight	**3.9lbs**
Pawl Travel	**1.25″**
Stroke	**(3.175 cm)**
Tension Force	**Adjustable**

AT2060 Cable Tie Specifications

RoHS

Operating Temperature	
Natural Polyamide 6.6	**-40 °F to +185 °F (-40 °C to +85 °C)**
Heat stabilized, black, Polyamide 6.6	**-40 °F to +221 °F (-40 °C to +105 °C)**
Reel Diameter	**17.7 ″ (450)**
Reel Width	**7.197 ″ (182.8)**
Reel Weight	**7 lbs**



Product Selection

Article No.	Part No.	Type	Description	Min. Tensile Strength lbs. (N)	Max. Ø Bundle in. (mm)	Pkg. Qty.
103-00000	**AT2060**	AT2060	Includes AT2060 tool, power supply, power cord, tool cord, and maintenance and operation manual.			1
Natural Cable Ties						
103-00002	**T30RA30**	T30RA	Cable ties on a bandolier for use with the AT2060 tool	30 lbs (133.44)	1.25″ (31)	6,000 per carton includes: 30 per bandolier 600 per bag
103-00001	**T30RA3000**	T30RA3000	Cable ties on a reel for use with the AT2060 tool	30 lbs (133.44)	1.25″ (31)	6,000 per carton includes: 3,000 per reel 2 reels per carton
Black, Heat Stabilized Cable Ties						
103-00003	**T30RA300HS**	T30RA	Cable ties on a bandolier for use with the AT2060 tool	30 lbs (133.44)	1.25″ (31)	6,000 per carton includes: 30 per bandolier 600 per bag
103-00004	**T30RA30000HS**	T30RA	Cable ties on a reel for use with the AT2060 tool	30 lbs (133.44)	1.25″ (31)	6,000 per carton includes: 3,000 per reel 2 reels per carton

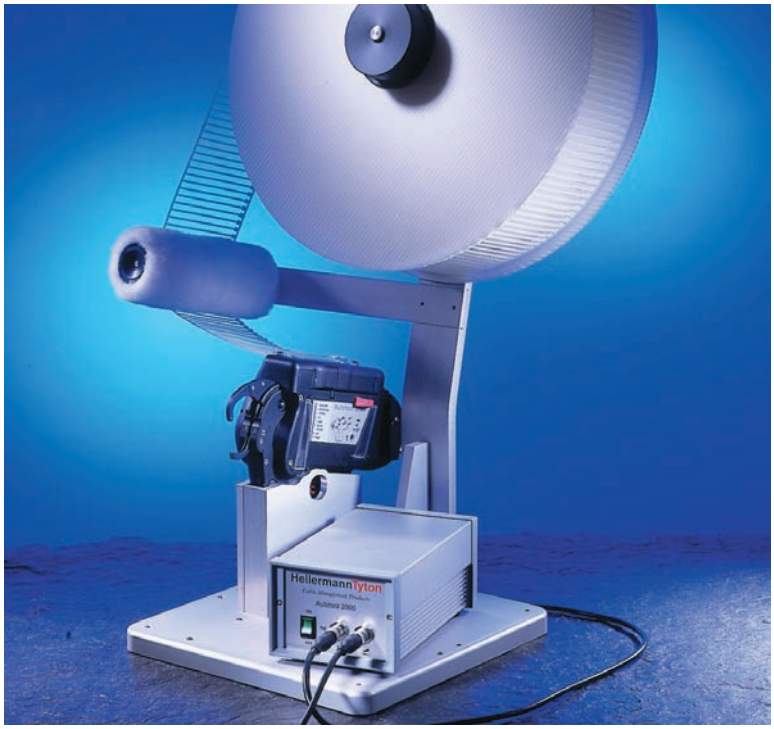
Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes. V/O rated ties and 4/6 ties for high temperatures can be made available for the AT2060. Various colors available upon request (Contact HellermannTyton for lead time).

For information on AT2060's Bench Mount System and Overhead Suspension Assembly see page 7-8

For information on Wire Retainers for Harness Boards see page 9

AT2000 & AT2060 Bench Mount System

HellermannTyton offers a portable bench mount system which works with the AT2000 and AT2060 tool systems. It is extremely easy to set up and use. Within seconds, the AT2000 or the AT2060 can be converted from a handheld tool to a bench mount system. With the touch of the foot pedal, the cable tie is applied.



AT2000 and AT2060 Bench Mount System

Product Selection

Article No.	Part No.	Type	Description	Pkg. Qty.
120-00040	**AT2BENCHMOUNT**	Bench Mount Kit	Includes foot pedal, tie reel stand and tool mounting stand	1

Use **Part No.** for ordering and **Type** for specification purposes.

AT2000 or AT2060 Overhead Suspension Assembly

HellermannTyton's overhead suspension assembly system holds the AT2000 or AT2060, reel of cable ties, and power source. The overhead assembly is available in several configurations in a variety of mounting options and is easily integrated into various manufacturing environments. The modular design allows for easy additions or modifications of the system design.

The overhead assembly system provides additional ergonomic advantages to the AT2000 and AT2060. The system features overhead hanging, a trolley slide which allows for mobility within the frame, and an adjustable counter balance. These features allow for low operator strain and easy use. Since the assembly integrates the automatic cable tie systems and reel of ties, continuous feed is achieved. Reloading of cable ties is greatly reduced, further optimizing efficiencies.

The picture shows just one configuration of an overhead assembly.

The HellermannTyton team of tool systems specialists will assist in the custom design of a system to specially accommodate individual manufacturing sites and production needs. The modular features and inherent ergonomic benefits improve production and make operation more efficient.

Contact HellermannTyton for more information. Fasteners for unit assembly are included. Permanent mounting fasteners are not included.

Mobile Trolley Unit Configuration

AT2000 Battery Pack

HellermannTyton's battery pack powers the AT2000 and is worn by the operator, allowing for complete mobility.

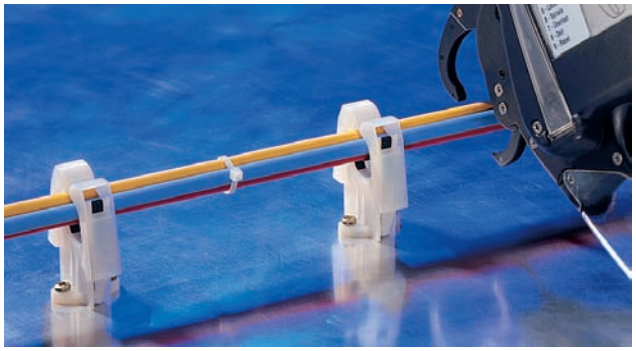
Product Selection

Article No.	Part No.	Type	Description	Pkg. Qty.
120-00030	**AT06500030**	Battery Pack	Battery with belt clip and connector cord	1
120-00010	**AT06500020**	Battery Charger	Charging unit for battery	1

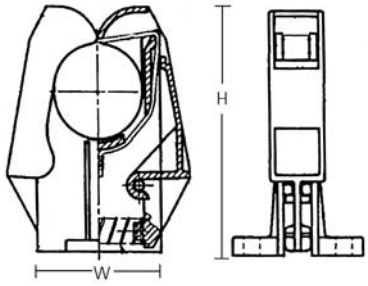
Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

Wire Retainer for Harness Boards

Designed for use in harness board assemblies, these wire retainers stand-off wire and cable bundles for easier cable tie application. Wires are individually inserted, and bundles are preformed, making harnessing easier.



Wire Retainer for Harness Boards



Product Selection

Article No.	Part No.	Type	Description	Height (H) in. (mm)	Width (W) in. (mm)	Max. Ø Bundle in. (mm)	Pkg. Qty.
120-00080	**HH-20**	HH20	Harness Board Assembly	2.12″ (54)	1.22″ (31)	.83″ (20)	25

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

AutoTool System 3080
For bundles up to 3.14"

HellermannTyton's ATS3080 automatically installs cable ties for bundles up to 3.14" in diameter with one trigger depression. This innovative system utilizes strap and closures (ordered separately) to achieve a waste free system. The ATS3080 uses only the required strap length required for the diameter. The strap is outside serrated so that it will not damage sensitive wire and cable bundles.

This well balanced tool has ergonomic benefits that include low weight and a comfortable hand grip which reduces operator strain and injury while installing cable ties. The ATS3080 possesses a LED panel that provides critical operational feedback that makes it easier to maintain and operate the tool.

The ATS3080 has three jaw diameters available; 1.18" (30mm), 1.96" (50mm), and 3.14" (80mm). The jaws are easily interchanged and further tool adjustment between the three jaw diameters is unnecessary.

ATS3080 Technical Specifications

Power Supply	**Electrical**
Cycle Time	**approx. 1.3 sec. (50 mm jaw)**
Weight	**3.2lbs**
Installation	**Mobile, bench mount or overhead**
Tension Force	**Adjustable**

Closures and strap for ATS3080

ATS3080 Cable Tie Specifications

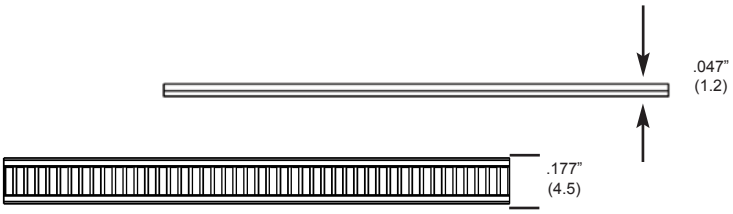
RoHS

Material	**Polyamide 6.6 high impact modified, heat and UV stabilized (PA66HIRHSUV)**
Operating Temperature	**-40 °C to +95 °C continuous, (+105 °C for 5000 h)**
Flammability	**UL94 HB**
Strap Reel Dimensions	
Reel Diameter	**15.25" (387 mm)**
Reel Width	**3.5" (88.9 mm)**
Reel Weight	**6lbs (2.72 kg)**
Closure Reel Dimensions	
Reel Diameter	**15.25" (387 mm)**
Reel Width	**3.5" (88.9 mm)**
Reel Weight	**3.5lbs (1.58 kg)**

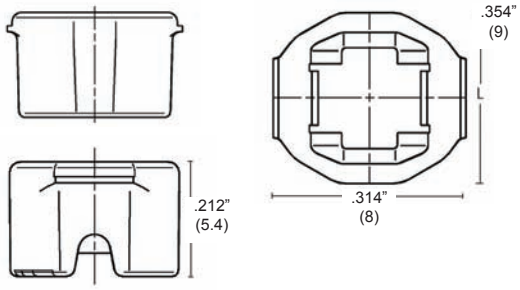
ATS3080 with mobile trolley unit

ATS3080 with overhead

ATS3080 with bench mount



Strap ATS3080



Closures ATS3080

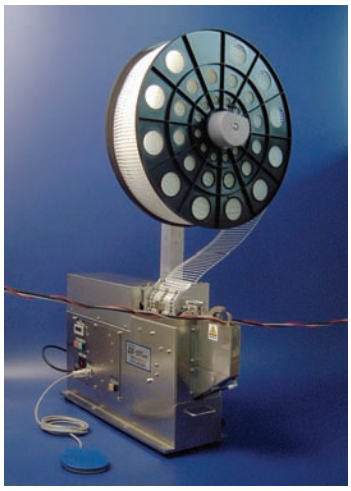
Product Selection

Article No.	Part No.	Type	Description	Min Tensile Unlocking Strength (lbs)	Pkg. Qty. ft. (m)
102-00000	**ATS3080**	ATS3080	Includes ATS3080 tool, power cord, tool cord, and maintenance and operation manual. Does not include power supply.		1
102-00010	**ATS10200010**	Power Pack ATS3080	Power Supply Unit for ATS3080 Input: 230/115 VAC, 50-60 Hz Output: 48 VDC, max. 50W		1
Natural Strap and Closures					
102-66109	**ATS10266109**	Strap Natural ATS3080	ATS3080 Strap	50 lbs	1640 ft. (500)
102-66209	**ATS10266209**	Closures Natural ATS3080	ATS3080 Closure	50 lbs	5000 pcs
Black Strap and Closures					
102-66110	**ATS10266110**	Strap Black ATS3080	ATS3080 Strap	50 lbs	1640 ft. (500)
102-66210	**ATS10266210**	Closures Black ATS3080	ATS3080 Closures	50 lbs	5000 pcs
102-00040	**ATS10200040**	Bench Mount Kit	Bench Mount Kit for ATS 3080 Integrated pneumatic system that coordinates tool and reels. Foot pedal application, other actuation options available		1
102-00050	**ATS10200050**	Overhead Suspender	Overhead Suspender ATS 3080		1
102-00030	**ATSTROLLEY**	Trolley ATS 3080	Trolley		1

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

Quick Tool

HellermannTyton's Quick Tool is an automatic bench mount system suited for high volume cable tie applications. This air powered tool accommodates a reel of 5,000 ties and, like HellermannTyton's other automated systems, can be integrated into further automation as well as fully incorporated into conveyor or assembly line applications.



Product Features

- The system is a one piece, bench top unit which increases efficiency through quick and reliable fastening.
- It can be installed where a 110 VAC electrical outlet and pneumatic air source are available.
- Provides consistent fastening tension.
- Controls fastening tension.
- Ties are available in two styles: standard and heat stabilized.
- Custom colors for Quick Tool ties are also available. Contact HellermannTyton for more information.

QS101 Cable Tie Specifications

Operating Temperature	
Natural Polyamide 6.6	**-40 °F to +185 °F (-40 °C to +85 °C)**
Heat stabilized, black, Polyamide 6.6	**-40 °F to +221 °F (-40 °C to +105 °C)**
Reel Diameter	**18″ (457 mm)**
Reel Width	**5.20″ (132 mm)**
Reel Weight	**4.8 lbs (2.18 kg)**

QS101 Technical Specifications

Max. Ø Bundle	**0.630″ (16.00 mm)**
Wattage	**70W**
Power Supply	**Electrical/Pneumatic Power**
Cycle Time	**1.2 Seconds**
Weight	**40 lbs.**
Installation	**Bench**
Tension Force	**Adjustable (9.92 lbs - 19.84 lbs)**

Product Selection

Article No.	Part No.	Type	Description	Min Tensile Unlocking Strength (lbs)	Max. Ø Bundle in. (mm)	Width (W) in. (mm)	Length (L) in. (mm)	Pkg. Qty.
105-00000	**QS101**	QS101	Includes Quick Tool, power cord, maintenance and operation manual and foot pedal.					1
Natural Cable Ties								
105-00006	**QTTIE9**	QTTIE9	Cable ties on reel for use with the Quick Tool.	18	.63 ″ (16)	.10 ″ (2.5)	4.0 ″ (101)	10,000 per carton: 5,000 per reel 2 reels per carton
Black Heat Stabilized Cable Ties								
105-00001	**QTTIEOHS**	QTTIE0HS	Cable ties on reel for use with the Quick Tool.	18	.63 ″ (16)	.10 ″ (2.5)	4.0 ″ (101)	10,000 per carton: 5,000 per reel 2 reels per carton

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

Various colored cable ties available upon request. Contact HellermannTyton for more information and lead times.

Power Assisted Cable Tie Tools

HellermannTyton's Mark 7 and Mark 9 power assisted (MK7P & MK9P) tools utilize pneumatic power to tension and cut-off HellermannTyton cable ties. The MK7P and MK9P tools feature an ergonomic design while offering time/labor savings and ease of use benefits derived from pneumatic power. These tools feature a non-slip, comfortable grip, soft touch trigger, and one touch tensioning/cut-off capability. HellermannTyton's pneumatic cable tie tools are lightweight, high performance, and suited for extended use.

MK9P

Product Features

- Ergonomic
The ergonomic design of the pneumatic cable tie tools incorporates a comfortable grip, low weight, and easy trigger depression to reduce installer effort and strain while installing cable ties.

- Operation
MK7P & MK9P speed assembly. Just one pulse of the soft touch trigger assembly actuates an immediate tension and cut-off of the cable tie.

- Cable tie waste is ejected to the side after the cable tie is applied,ensuring smooth operation of the tool.
- Uses dry or lubricated air.
- Operates between 90 PSI and 105 PSI maximum.
- Supplied with a 6 inch lead which comes with a male quick connect fitting with a female coupler for 1/8" flow.

- Design
HellermannTyton's pneumatic tools are manufactured with tough, chromium steel components and high impact, glass reinforced nylon housings for maximum durability.

- Tensioning
An easy to read indicator verifies tension settings. The tools feature an easy dial-in tension adjustment, along with a lock-out capability. The tension adjustment on the MK7P and the MK9P is designed with an operator friendly, positive "click" design for easy use. The tension can readily be locked out to allow the tension adjustment to remain at a constant setting that can only be changed by approved personnel. The fine adjust tension knob has an unique lever feature used to reduce adjustment torque.

Mark 7 Pneumatic

The Mark 7 Pneumatic (MK7P) is built to perform in demanding production and manufacturing environments. Heavy duty precision parts ensure repeatability in the tensioning process. The MK7P fits comfortability in the operator's hand, reducing hand, arm and wrist fatigue. Due to its ergonomic features, HellermannTyton's MK7P makes it easier for the installer to consistently apply cable ties while maintaining correct tension and flush cut-off. Safety is enhanced, as the MK7P can eliminate sharp edges of a cut-off cable tie.

MK7P

Material Data

Power Supply	**Dry or lubricated air**
Cycle Time	**4 strokes per second**
Weight	**16oz**
Pawl Travel Stroke	**1.0″ (2.54 cm)**
Tension Force	**60 to 170 N, adjustable**

Product Selection

Article No.	Part No.	Type	Description	Cable Tie Series	Pkg. Qty.
110-07101	**MK7P**	MK7P	Includes Mark 7 Pneumatic tool and quick connect fittings. Ergonomic tool uses pneumatic power and accomplishes rapid tension and cut-off with one trigger depression.	T18 thru T50 Series CTT20 thru CTT60 Series	1
110-07111	**MK7P-342**	Replacement Blade	MK7P Replacement Blade		1

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

Minimum order quantity for MK7P-342 is 5.

MK9 Pneumatic

The Mark 9 Pneumatic (MK9P) is constructed with heavy duty parts to ensure that it performs optimally in demanding environments. It is ideally designed to apply heavy-duty ties (T50-T250), clamp and button head ties.

Like the MK7P, HellermannTyton's MK9P incorporates the next level of ergonomic improvement with its low weight, comfortable grip and easy trigger depression. Very durable, the pneumatic MK9P features adjustable, easy to read tension settings. Lock-out features are available.

The MK9P is available with lower air attachment (standard) or can be ordered with an upper air attachment.

MK9PUA (Upper Air)

MK9P

Material Data

Power Supply	**Dry or Lubricated Air**
Cycle Time	**2 strokes per second**
Weight	**32oz**
Pawl Travel Stroke	**1.25″ (3.175 cm)**
Tension Force	**60 to 170 N, adjustable**

Product Selection

Article No.	Part No.	Type	Description	Cable Tie Series	Pkg. Qty.
110-09101	**MK9P**	MK9P	Includes Mark 9 Pneumatic tool and quick connect fittings. Included is a 1/8″ flow quick disconnect fitting and a 10″ whip and 1/8″ make fitting. Ergonomic tool uses pneumatic power and accomplishes rapid tension and cut-off with one trigger depression.	T50 thru T250 Series CTT20 thru CTT175 Series EL-TY Series Button Head Ties	1
110-09112	**MK9PUA**	MK9P	Includes Mark 9 Pneumatic tool with upper air option for top air connection. Supplied with a 1/8″ flow quick disconnect fitting and a 10″ whip and 1/8″ quick disconnect fitting. Includes a hanger for an optional overhead tool balancer (not included). Ergonomic tool uses pneumatic power and accomplishes rapid tension and cut-off with one trigger depression.	T50 thru T250 Series CTT20 thru CTT175 Series EL-TY Series Button Head Ties	1
110-09111	**MK9P-109**	MK9P-109	MK9P Replacement Blade		1**

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

**Minimum order quantity of MK9P-109 is 5.

Common Accessories for MK7P and MK9P

HellermannTyton offers a portable kit that incorporates carbon dioxide (CO_2) as the primary air source. This unique feature will allow for greater flexibility and the elimination of air line to the tool.

Product Selection

Article No.	Part No.	Type	Description	Pkg. Qty.
110-09002	**MKPCOKIT**	MKPCOKIT	MKPC0KIT is a complete kit that includes the belt, holster, hose/regulator, pouch and 16oz air tank.	1
110-09003	**MKPCOTANK**	MKPCOTANK	Standard 16oz air tank for C02 air supply to tool.	1
110-09004	**MKPCOTANK20**	MKPCOTANK20	Special 20oz canister tank for C02 feature.	1
110-09005	**MKPCOHOSE**	MKPCOHOSE	Hose attachment from air tank to the tool with regulator.	1
110-09006	**MKPCOBELT**	MKPCOBELT	Adjustable belt for air tank and pouch and tool holster for MK7P or MK9P tools.	1

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

Mechanical Cable Tie Tools

Ranging from the high performance Mark 7 and Mark 9 series tools to pocket-sized twist tools, HellermannTyton offers a range of mechanical tools which can be used with any HellermannTyton cable tie. When using these tools, the cable tie is hand applied and then manually tensioned and cut-off, without the use of an extraneous power source.

MARK 7 AND MARK 9 TOOLS

Specifically developed for maximum ergonomic and performance values, the Mark 7 and Mark 9 series tools combine reduced hand effort and durable components to ensure efficient assembly and a longer life cycle. The Mark 7 tools are used with T18 through T50 series HellermannTyton cable ties. The Mark 9 tools can be used with nearly every HellermannTyton cable tie. Able to accommodate ties to .530″ in width, the Mark 9 is used with HellermannTyton's T18 series cable ties to the heavy duty ties, including the T250 series, Wide Strap series and EL-TY. High tension versions of both the Mark 7 and Mark 9 tools (MK7HT and MK79HT) offer the same design features as their standard counterparts but with higher cut-off tension capabilities. The Mark 9 and Mark 7 high tension tools both offer a 5/8″ stroke.

MK7 & MK9

Mark 7 and Mark 9 Features

– An easy to read display speeds adjustment and verification.
– Thumb tab on larger tension knob for easy adjustment.
– On the Mark 7, a larger knob sets the three variable tension levels (minimum,intermediate, and standard). The smaller knob fine tunes within the tension range.
– The larger knob on the Mark 9 sets to two variable tension levels (standard and heavy).The smaller knob fine tunes the tension setting.
– Housings are manufactured from a high impact, glass reinforced nylon.
– A double wall linkage adds more strength.
– Tough chromium steel components ensure longevity.
– MK7 & MK9 are military specified.
– Single and dual lock-out features available for tensioning ranges.
– Cable tie tension and cut-off tools reduce operator fatigue and speed assembly.
– The Mark 7 features a one inch stroke, while the Mark 9 has a 5/8 inch stroke. Both reduce trigger cycles required to install cable ties.
– Ergonomic design on both tools ideally fit the operator's hand. Removable padded hand grips further reduce impact to the hand.
– Low friction bearing mechanisms reduce hand effort and provide a smooth stroke.
– Extremely light, the Mark 7 weighs only 10 ounces. The Mark 9 weighs just 13 ounces.
– Quick tension adjustability for flush cut-off.

MK7

Mark 7 Tool

Product Selection

Article No.	Part No.	Type	Description	Cable Tie Series	Pkg. Qty.
110-07500	**MK7**	MK7	Durable and lightweight, the Mark 7 tool is user friendly and adjustable, with top-of-the-line design features.	T18 thru T50 Series CTT20 thru CTT60 Series	1
110-07000	**MK7HT**	MK7HT	The Mark 7 High Tension tool has the same design features as the MK7, although this tool offers an increased tension range.	T30 thru T50 Series CTT20 thru CTT60 Series	1
110-08000	**MK7LK**	MK7LK	The Mark 7 Lock-Out tool has the same design features as the MK7, although this tool offers complete lock-out of tension settings.	T30 thru T50 Series CTT20 thru CTT60 Series	1
110-00448	**MK7BLADEKIT**	MK7BLADEKIT	Service kit for MK7 tool includes replacement blade, screw for nose piece, and instruction card.		1
110-00449	**MK7-449**	MK7-449	Replacement blade for MK7 series tools.		1

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.
Minimum order quantity for the MK7-449 is 5.

Mark 9 Tool

MK9

MK9SST

Product Selection

Article No.	Part No.	Type	Description	Cable Tie Series	Pkg. Qty.
110-09500	**MK9**	MK9	The Mark 9 tool has the same design features as the MK7 series tools. The MK9 accommodates heavy duty cable ties.	T18* thru T250 Series CTT20 thru CTT175 Series EL-TY Series Wide Strap Series	1
110-09000	**MK9HT**	MK9HT	The Mark 9 High Tension tool has the same design features as the MK9, but offers an increased tension range.	T18* thru T250 Series CTT20 thru CTT175 Series EL-TY Series Wide Strap Series	1
110-09700	**MK9RE**	MK9RE	The MK9 Rounded Edge tool has the same design features as the MK9 although it has a special nose piece that leaves a 2mm round tail.	T18* thru T250 Series CTT20 thru CTT175 Series EL-TY Series Wide Strap Series	1
110-09600	**MK9REF**	MK9REF	The Mark 9 Reduced Effort tool has a reduced effort trigger mechanism for operators with small hands. It has a shorter pawl stroke.	T18* thru T250 Series CTT20 thru CTT175 Series EL-TY Series Wide Strap Series	1
110-95000	**MK9SST**	MK9SST	Adapted for use with stainless steel ties, the MK9 Stainless Steel tool retains the same design features as the MK9 series. The MK9SST accommodates all HellermannTyton stainless steel ties.	All MBT Series for both 304 and 316 materials	1
110-00220	**MK9BLADEKIT**	MK9BLADEKIT	Service kit for the MK9 tool includes replacement blade, screw for nose piece, and instruction card.		1
110-00221	**MK9-221**	MK9-221	Replacement blade for MK9 series		1
110-05114	**MK9SS-114**	MK9SS-114	Replacement blade for MK9SST series tools		1

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes. * Does not include T18S series ties .08″ wide.

Other Mechanical Cable Tie Tools

Product Selection

Article No.	Part No.	Type	Description	Cable Tie Series	Pkg. Qty.
110-21000	**TWT1**	TWT	The TytonTwyster is a lightweight and economical twist tool. Offers speed and efficiency. Fits into a pocket. (Color Orange)	T18 thru T50 Series CTT20 thru CTT60 Series	1
110-22000	**TWT2**	TWT	The TytonTwyster is a lightweight and economical twist tool. Offers speed and efficiency. Fits into a pocket. (Color Blue)	T120 thru T150 Series CTT175 Series	1
110-11150	**T150**	T150	The T150 Tool is a heavy duty installer controlled tool for use in the field. Pliers action provides mechanical advantage. Padded foam grip handles provide comfort and control.	T150 Series CTT175 Series	1
110-11250	**T250**	T250	The T250 has the same design features as the T150 Tool, but can tension and cutoff a wider tie.	T150 thru T250 Series CTT175 Series	1

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

SwiftMark Automatic Label Printer and Applicator

HellermannTyton's SwiftMark prints and applies labels automatically to wire and cable. With the largest wire range in the industry, the SwiftMark has uncompromising application speed and easily meets standards for application in relation to the end of the wire.

Features

- Fast cycle time
- Print on demand (label printed is the label applied)
- Reprint on demand (reprint labels for sequences or other critical applications)
- Ribbon save feature - less waste
- Faster text changes
- Allows variability in printed text
- High reliability
- Marks to within .5" of the end of a cable or connector
- Accommodates pre-terminated wire and cable, and can even wrap cable bundles and twisted cables
- Touch screen LCD
- Ribbon save feature
- Adjustable wire grippers to secure the wire as close as possible to the label
- Print "repeat" button to repeat any missing labels when printing sequences and random data
- 300 d.p.i. printhead
- Uses self-laminating adhesive labels printed using an internal thermal transfer ribbon
- Foot pedal, touch screen, and 24V wrap initiation options

SwiftMark Includes

- 1 SwiftMark
- 1 Foot pedal
- 1 External power supply
- 1 Manual
- 1 Tagprint Pro V2.0 label printing software.
- 1 Driver disk

Specifications

Width	**20"**
Height	**15"**
Depth	**31"**
Weight	**60 lbs.**
Wire Range	**.060" - .75"**
Label Widths	**.5" - 2"**
Power	**Electric universal power supply**
Storage Temperature	**-30 °F to +160 °F (-34 °C to +71 °C)**
Connections	**USB, RS-232, Serial, Parallel, SD/MMC secure digital card interface, Ethernet**

Product Selection

Article No.	Part No.	Type	Description	Pkg. Qty.
558-00060	**556-00022**	SMLA1	SwiftMark Automatic Label Printer and Applicator	1

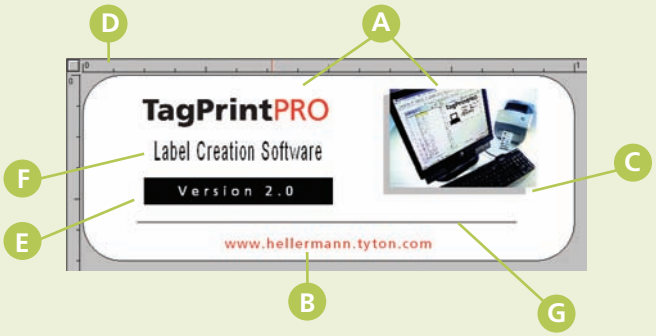
Contact HellermannTyton for details and label information.Use **Part No.** for ordering and **Type** for specification purposes.

TagPrint™ Pro Professional Label Creation Software

TagPrint™ Pro label creation and printing software is powerful, multi-functional and extremely easy to use. Used to provide solutions for industrial identification, TagPrint™ Pro speeds production and offers many options for a wide variety of labeling requirements. "What You See Is What You Get" (WYSIWYG) label creation, bar coding, serialization, label sets, wire lists, graphics and text choices are just some capabilities of TagPrint™ Pro software. TagPrint™ Pro can be utilized with HellermannTyton's wide array of label options including laser, ink jet, dot matrix and thermal transfer printable labels.

New Features for Version 2.0

- Alphanumeric sequences
- Print to multiple printers at one time
- Print later feature allows user to save jobs in queue and print all at one time
- Print faster
- Connect or import directly from other databases including Excel, Access, text files
- More bar code types
- Inverse, flip, and mirror image options for graphic images
- Multi-lingual
- Print log available
- Manually adjust font size to 1/10 of a point
- Customize height and width of characters
- Customize line spacing
- Compatible with all TagPrint Pro version 1.0 files
- And much more!



A Easily import a variety of image types into the label design

B Use any Windows based font in the label design for complete customization

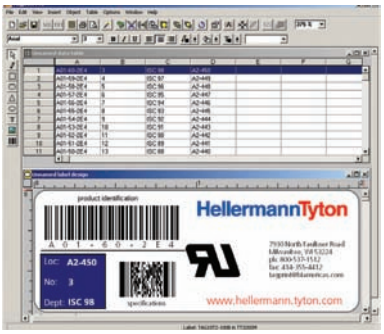
C Layer objects like professional page layout programs

D Rulers on top and side allow for exact placement of objects

E Easily change text color, fill color and border color to make text stand out and accomplish "full reverse" printing

F Allow text characters to be stretched or compressed to almost any height or width

G Draw lines, circles and boxes on the label as a simple way of making the label look more professional



Product Selection

Article No.	Part No.	Type	System Requirements	Pkg. Qty.
556-00022	**556-00022**	TAGPRINTPRO Version 2.0 - Full	Windows 98se, ME, NT4.0, 2000 or XP	1
556-00024	**556-00024***	TAGPRINTPRO Version 2.0 - Upgrade	Windows 98se, ME, NT4.0, 2000 or XP	1

*Existing owners of previous versions of TagPrint can qualify for an upgrade at a reduced cost with proof of purchase and a valid serial number. Contact HellermannTyton for details.Use **Part No.** for ordering and **Type** for specification purposes.

Spirit® 2100 Portable Printing System

The Spirit 2100 provides fast, high quality, thermal transfer printing for permanent and highly legible label printing. The Spirit 2100 prints on many different types of label materials for wire, cable, and component marking. Self-laminating, white and metalized polyester, and tamper evident materials for calibration and security labeling are available for use with the Spirit system.

Product Features

- "What You See Is What You Get" label design and creation.
- Choose from normal or bold fonts to complete the label design
- Easily change text sizes: tiny, normal or large text
- And much more! Contact HellermannTyton for more details

Product Selection

Article No.	Part No.	Type	Description	Pkg. Qty.
557-00085	HT2100	HT2100	Portable Printing System includes: Spirit 2100 printer, HT2100 rechargeable battery and charger, ribbon cartridge, TAGH73-336, printer manual, CD-Rom tutorial, hard shell case, cleaning card, cleaning pen and Spiritlink computer interface software (interface software cable sold separately)	1

Use **Part No.** for ordering and **Type** for specification purposes.

Spirit 2100 Accessories

Product Selection

Article No.	Part No.	Type	Description	Pkg. Qty.
591-00076	**BC10**	BC10	Battery Charger	1
557-00002	**2100CASE**	2100CASE	Spirit Carrying Case	1
557-00004	**2100CABLE**	2100CABLE	SpiritLink interface cable.	1
557-00003	**RBP1**	RBP1	Battery Pack	1
557-00005	**2100PEN**	2100PEN	Cleaning Pen	1
557-00006	**TS3003039**	TS3003039	Spirit label Spindle Roll	1
557-00007	**TS3003040**	TS3003040	Spirit label Spindle cap	1
557-00008	**2100CARD**	2100CARD	Printhead cleaning card	1
591-00003	**2100AC**	2100AC	AC Adaptor	1

Use **Part No.** for ordering and **Type** for specification purposes.

Ribbon

The ribbon is supplied in a self-contained cartridge for easy loading. *One ribbon per package.*

Product Selection

Article No.	Part No.	Type	Description	Width (W) In.	Width (W) (mm)	Height (H) In.	Height (H) (mm)	Pkg. Qty.
557-00009*	**HHIGR**	HHIGR	Replacement ribbon cartridge	2.0	(50.8)	2.50	(63.5)	131 ft (40 m)
557-00092	**HHHST**	HHHST	Ribbon cartridge	2.0	(50.8)	2.50	(63.5)	131 ft (40 m)
557-00075**	**HHDTH**	HHDTH	Replacement Durattach ribbon	2.0	(50.8)	2.50	(63.5)	131 ft (40 m)

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

** HHIGR works on all materials*

*** HHDTH can only be used with label materials that have the DTH extension. This provides superior performance to most chemicals and solvents.*

TT320SM Printer

The HellermannTyton TT320SM printer is a thermal transfer printing system designed for medium to low volume users of HellermannTyton thermal transfer labels and ShrinkTrak.

Product Features

- 300 dots per inch thermal transfer printer
- Print speed of 1" to 2" per second. (print speeds of up to 4" per second are possible when using the TT320SM printer with HellermannTyton's new Tagprint V2.0 label printing software)
- Prints label lengths up to 11" & 10" with standard memory
- 512K SRAM / 1 MB Flash RAM standard - Upgradable to 1MB SRAM
- Easy-to-load label and ribbon path
- Sturdy metal enclosure
- Internal rewinder standard
- Printer is not supplied with ribbons. Order ribbons separately.
- HellermannTyton labels must be fed through a slot in rear panel of printer from CADDY5.0

Product Selection

Article No.	Part No.	Type	Description	Pkg. Qty.
556-00320	**TT320SM**	TT320SM	TT320SM Printer	1
556-03022	**CADDY5.0**	Label Caddy 5.0	Label Caddy	1
556-03018	**105910-155**	Printhead TT320SM	Printhead	1

Use **Part No.** for ordering and **Type** for specification purposes.

TT320SM Thermal Transfer Ribbons

Due to various settings in printers, the different label types and variations in ribbons, each material must have its own specific ribbon. For instance, when ordering HellermannTyton 822 material labels, please specify and use the ribbon that is configured for the 822 stock. In this case, it would be the TT822 ribbon. In addition, this ribbon must be used to have the Underwriters Laboratories recognized mark on the 822 material.*

Product Selection

				Label Material									Width (W)	Length (L)
Article No.	Part No.	Type	Color	Paper	100	250	795	822	822C	900	DTH	ShrinkTrak	In. (mm)	Ft. (M)
556-00145	**TT822OUTSM**	TT822	Black	•		•	• (1,2)	•	•			• (4)	4.33 (110)	242 (74)
556-00146*	**TT822OUTSM10**	TT822	White					• (1,2)	• (1,2)			•	4.33 (110)	242 (74)
556-00147**	**TT822OUTSM2**	TT822	Red	•	•	•	•						4.33 (110)	242 (74)
556-00148**	**TT822OUTSM3**	TT822	Orange	•	•	•	•	•	•				4.33 (110)	242 (74)
556-00149**	**TT822OUTSM4**	TT822	Yellow	•	•	•	•	•	•				4.33 (110)	242 (74)
556-00150**	**TT822OUTSM5**	TT822	Green	•	•	•	•	•	•				4.33 (110)	242 (74)
556-00151**	**TT822OUTSM6**	TT822	Blue	•	•	•	•	•	•				4.33 (110)	242 (74)
556-00152**	**TT822OUTSM7**	TT822	Purple	•	•	•	•	•	•				4.33 (110)	242 (74)
556-00153* **	**TT822OUTSM8**	TT822	Silver Gray									•	4.33 (110)	242 (74)
556-00163	**TTHSTOUTSM**	TTHST	Black		°	°						• (4)	4.33 (110)	242 (74)
556-00143	**TTDTHOUTSM**	TTDTH	Black								• (5)	• (5)	4.33 (110)	242 (74)

Use **Part No.** for ordering and **Type** for specification purposes.

• *=Recommended ribbon*

° *=Acceptable ribbon alternative*

(1) UL Recognized material / ribbon combination with HellermannTyton thermal transfer printers

(2) CSA Normal Use approved material / ribbon combination with HellermannTyton thermal transfer printers

(3) CSA Heavy Duty Use approved material / ribbon combination with HellermannTyton thermal transfer printers

(4) Meets ASM-DTL-23053/5 Class I & III, SAE-AS81531 for print performance

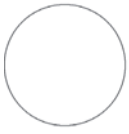
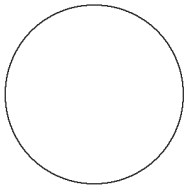
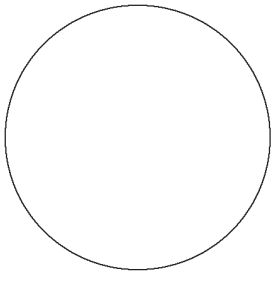
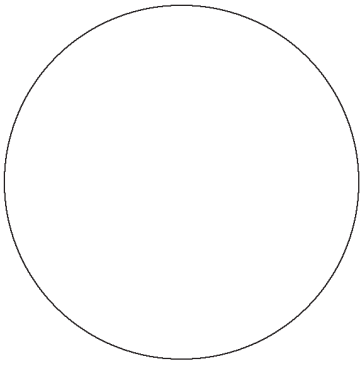
(5) Outstanding chemical, abrasion and solvent resistance where UL and CSA requirements are not needed

** Call HellermannTyton for assistance when using this ribbon.*

*** 10 ribbon minimum order*

Wire Diameter Guide to HellermannTyton Labels

This guide can be used to determine which labels will work best with the wire diameter selected. Simply place the end of the wire over the appropriate circle to select the best label size.

If your wire or cable diameter is less than or equal to below, use:		Spirit 2100 Labels	Thermal Transfer Labels	ShrinkTrak Markers	Laser Labels	Ink Jet Labels	Dot Matrix Labels
.10″		TAGH26-100 TAGH51-100	TAG26T6-100B TAG21T6-250 TAG51T3-100B	553-50001 to 553-50014 553-50063 553-50067 to 553-50081	TAG26L-105	TAG26L-994 TAG51J-994	TAG26-100
.20″		TAGH22-100 TAGH2-100	TAG2T5-100B TAG22T3-100B TAG51T3-100B	553-50015 to 553-50022 553-50065	TAG63L-105 TAG49L-105 TAG51L-105	TAG5J-994 TAG22J-994	TAG2-100 TAG5-100 TAG22-100
.28″		TAGH2-100 TAGH22-100 TAGH24-100 TAGH25-100	TAG2T5-100B TAG22T3-100B TAG28T4-250 TAG24T1-100B TAG53T2-100B	553-50023 to 553-50027	TAG2L-105 TAG5L-105 TAG63L-105 TAG52L-105	TAG22J-994	TAG2-100 TAG5-100 TAG22-100 TAG24-100 TAG25-100
.54″		TAGH9-100 TAGH10-100	TAG9T3-100B TAG1T1-100B TAG10T2-100B	553-50028 to 553-50037	TAG9L-105 TAG1L-105 TAG10L-105 TAG65L-105	TAG9J-994	TAG9-100 TAG10-100
.94″		TAGH3-100 TAGH6-100 TAGH95-100	TAG3T3-100B TAG6T1-100B	553-50038 to 553-50042	TAG50L-105 TAG64L-105	TAG64J-994	TAG3-100 TAG6-100
1.40″		TAGH4-100	TAG7T1-100B				TAG4-100 TAG8-100
1.90″			TAG7T1-100B TAG38T4-100B				TAG7-100 TAG8-100 TAG23-100 TAG38-100

TipTags Cable Markers

HellermannTyton's TipTags are non-adhesive, cross laminated polyolefin tags with die cut cable tie slots for mechanical fastening. These cable markers are designed to mark wire bundles or large cables. TipTags are ideal for applications where exceptional print performance and long term service life are critical. TipTags consist of a thin, strong material which allows the tags to be lightweight, very strong, tear resistant, and work well in thermal transfer printers.

- Thermal transfer printable for high print contrast
- Halogen free for low smoke and low fire hazard applications
- White front and yellow back for versatility
- Superior strength and tear resistance for long lasting identification
- Pre-cut slots to secure the TipTag using HellermannTyton cable ties
- Printable on both sides
- Printable with Durattach ribbon on white side for the most durable mark in the industry
- Pre-cut sensor slot which ensures the markers will work in any thermal transfer printer
- Perforated in a bandolier for easy knitting and access to individual markers
- Thin profile to take up less space and eliminate any chance of the marker damaging wire insulation
- Lightweight design for applications that require long-term fuel and weight considerations

Material:	Polyolefin cross laminated with clear polyester laminate Polyolefin base: 6.5 mil Clear polyester laminate: 1.0 mil
Properties:	Halogen-free (low smoke and low fire hazard) Superior print performance, especially with Durattach ribbons Unaffected by most chemicals Wide service temperature range Non-toxic, odorless, and can be recycled or incinerated
Service Temperature Range:	-58°F to +221°F (-50°F to +105°C) Can withstand spikes up to 135°C (275°F) for short periods of time
Approvals:	SAE-AS81531 and Mil-Std 202G, Method 215J

TipTags Cable Markers *continued*

Material Data	
Material	**Polyolefin, cross laminated**
Operating Temperature	**-58 °F to +221 °F (-50 °C to +105 °C) continuous**
Certification	**Meets SAE-AS81531, Mil-Std 202G Method 215J, and BS 4G 198-3, Type 11a**

Product Selection

Article No.	Part No.	Type	Marker Size in.	Marker Size (mm)	Printable Area in.	Printable Area (mm)	Pkg. Qty.
556-26008	**556-26008**	TIPTAGVA15X65YEWH	2.59″ X .68″	(65 X 17.4)	2.58" X .59"	(65 X 15)	500
556-26006	**556-26006**	TIPTAGVA10X65YEWH	2.59″ X .50″	(65 X 12.7)	2.58" X .39"	(65 X 10)	500
556-26007	**556-26007**	TIPTAGVA10X90YEWH	3.54″ X .50″	(90 X 12.7)	3.54" X .40"	(90 X 10)	500
556-26009	**556-26009**	TIPTAGVA15X90YEWH	3.54″ X .68″	(90 X 17.4)	3.54" X .59"	(90 X 15)	500

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

T18 - T30 Series Cable Ties - Natural and Black

Material Data	
Material	**Polyamide 6.6 (PA66)**
Operating Temperature	**-40 °F to +185 °F (-40 °C to +85 °C) continuous**

File# E64139 *File# E64139*

Product Selection

Article No.	Part No.	Type	US Gov. Designation	Min. Tensile Strength lbs.	Min. Tensile Strength (N)	Length (L) in.	Length (L) (mm)	Max. Ø Bundle in.	Max. Ø Bundle (mm)	Width (W) in.	Width (W) (mm)	Color	Pkg. Qty.
111-02809	**T18S9M4**	T18S	MS3367-4-9	18 lbs	(80)	3.27″	(83)	.63″	(16)	.09″	(2.3)	Natural	1000
111-02811	**T18S0M4**	T18S	*	18 lbs	(80)	3.27″	(83)	.63″	(16)	.09″	(2.3)	Black	1000
111-01872	**T18R9M4**	T18R	MS3367-4-9	18 lbs	(80)	4″	(100)	.87″	(22)	.10″	(2.5)	Natural	1000
111-01841	**T18R0M4**	T18R	*	18 lbs	(80)	4″	(100)	.87″	(22)	.10″	(2.5)	Black	1000
111-02322	**T18I9M4**	T18I	–	18 lbs	(80)	5.51″	(140)	1.38″	(35)	.10″	(2.5)	Natural	1000
111-02315	**T18I0M4**	T18I	–	18 lbs	(80)	5.51″	(140)	1.38″	(35)	.10″	(2.5)	Black	1000
111-02026	**T18L9M4**	T18L	–	18 lbs	(80)	8.0″	(205)	2.17″	(55)	.10″	(2.5)	Natural	1000
111-02015	**T18L0M4**	T18L	–	18 lbs	(80)	8.0″	(205)	2.17″	(55)	.10″	(2.5)	Black	1000
111-03047	**T30R9M4**	T30R	MS3367-5-9	30 lbs	(135)	5.9″	(150)	1.38″	(35)	.14″	(3.5)	Natural	1000
111-03034	**T30R0M4**	T30R	*	30 lbs	(135)	5.9″	(150)	1.38″	(35)	.14″	(3.5)	Black	1000
111-03327	**T30L9M4**	T30L	–	30 lbs	(135)	7.48″	(190)	1.97″	(50)	.14″	(3.5)	Natural	1000
111-03315	**T30L0M4**	T30L	–	30 lbs	(135)	7.48″	(190)	1.97″	(50)	.14″	(3.5)	Black	1000
111-03517	**T30LL9M4**	T30LL	–	30 lbs	(135)	11.42″	(290)	3.15″	(80)	.14″	(3.5)	Natural	1000
111-03511	**T30LL0M4**	T30LL	–	30 lbs	(135)	11.42″	(290)	3.15″	(80)	.14″	(3.5)	Black	1000
111-02907	**T30XL9M4**	T30XL	MS3367-5-9	30 lbs	(135)	14.37″	(365)	4.13″	(105)	.14″	(3.5)	Natural	1000
111-02903	**T30XL0M4**	T30XL	*	30 lbs	(135)	14.37″	(365)	4.13″	(105)	.14″	(3.5)	Black	1000

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

* Military black available. Contact HellermannTyton for more information.

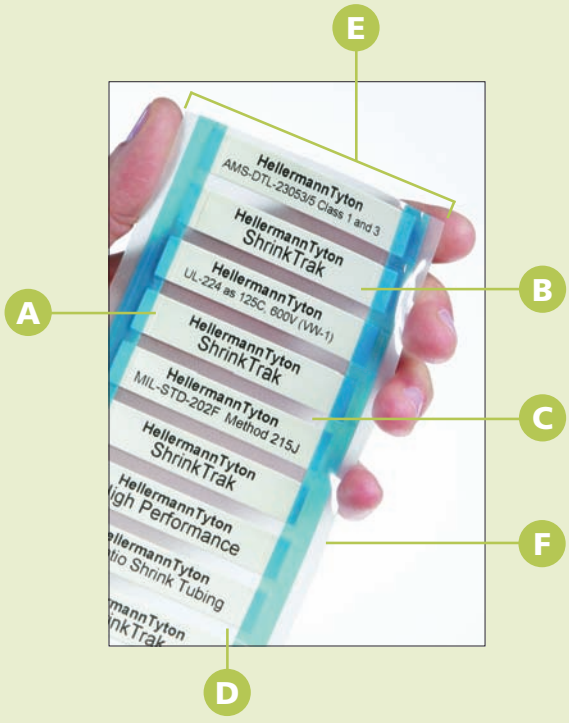
ShrinkTrak™ Heat Shrinkable Markers

HellermannTyton's ShrinkTrak™ heat shrinkable markers make it easy to mark wire, cable, and other components. These ladder-style markers are designed with side slits for easier application. All ShrinkTrak™ markers are military specified. They also reduce printer jams with their efficient and high performance design. For seamless labeling, ShrinkTrak™ can be printed using HellermannTyton's TagPrint™ Pro professional label creation software, thermal transfer printers and ribbons to create a permanent and solvent resistant print when shrunk and applied.

Versatile
- Flexible, flame retardant, heat shrinkable polyolefin tubing meets all military specifications
- 3:1 shrink ratio
- Standard colors - yellow, white and black
- Larger packaging options result in less box changes

High Performance Design
- Center slit versions reduce or eliminate hand cutting
- Non-slip, printable liner allows additional marker data to be printed on the reverse side for records and placement instructions
- Utilize HellermannTyton's Durattach ribbon system for the highest print performance on the market

Reduce Printer Jams
- Markers dispense directly into HellermannTyton thermal transfer printers with custom box opening
- Dispense markers faster and easier with waxed core dispenser



A. Side slit for easy insertion and removal from liner
B. Smooth, flat surface allows for consistent printing
C. Reduced spacing between markers for more efficient use of ribbon material
D. Markers firmly secured on anti-static liner to reduce static build-up in printers
E. Standard width to fit almost all thermal transfer printers
F. Pin-feed system not required

Ease of Use - Step by Step Guide

Step 1
Print with thermal transfer printer

Step 2
Bend liner at side slit

Step 3
Insert wire into marker

Step 4
Pull-up on wire - the marker will pull away from liner

ShrinkTrak Applied!

ShrinkTrak™ Heat Shrinkable Markers *continued*

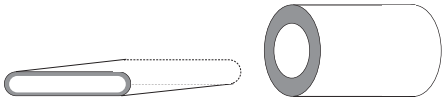
Material Data	
Material	**Polyolefin, cross-linked (POX)**
Product Thickness	**3 mil total thickness**
Shrink Temperature (nominal)	**+194 °F (+90 °C)**
Operating Temperature	**-67 °F to +275 °F (-55 °C to +135 °C)**
Flame Retardant	**Yes**
Flammability	**UL224 VW1**
Flexibility	**flexible**
Abrasion Resistance	**Good**
Solvent Resistance	**Good**
Standard Colors *For other colors, contact HellermannTyton	**White, Yellow & Black**
UL Rating	**Meets UL-224 as +257 °F (+125 °C), 600V (VW-1)**
Certification	**AMS-DTL-23053/5 Class 1 and 3, SAE-AS81531, MIL-STD-202G Method 215K**

Recommended Thermal Transfer Ribbons

TT320SM Printer	**TT1210 or other thermal transfer printer**
TTDTHOUTSM	TTDTHOUT
T822OUTSM	TT822OUT
TTHSTOUTSM	TTHSTOUT
TT900OUTSM	TT900OUT

ShrinkTrak Specifications

Diameter Size	**0.125″**	**0.187″**	**0.25″**	**0.375″**	**0.50″**	**0.75″**	**1.0″**
Wire Size Range (AWG/MCM)	18-22 (.044 - 1)	12-18 (.063 - .17)	10-16 (.083 - .230)	8-14 (.122 - .340)	2-10 (.166 - .470)	6-0000 (.25 - .725)	1-400 (.330 - .876)
Inside Diameter as Supplied In. (mm)*	0.118 +/- 0.024 (3.0 +/- 0.6)	0.177 +/- 0.032 (4.5 +/- 0.8)	0.236 +/- 0.040 (6.0 +/- 1.0)	0.354 +/- 0.040 (9.0 +/- 1.0)	0.470 +/- 0.024 (12.0 +/- 1.0)	0.732 +/- 0.040 (18.6 +/- 1.0)	1.024 +/- 0.040 (26.0 +/- 1.0)
Inside Diameter After Recovery In. (mm)	0.043 (1.0)	0.063 (1.6)	0.083 (2.1)	0.122 (3.1)	0.166 (4.2)	0.25 (6.35)	0.33 (8.3)
Wall Thickness After Recovery In. (mm)	0.0209 +/- 0.040 (.53 +/- 0.10)	0.026 +/- 0.004 (.65 +/- 0.10)	0.028 +/- 0.004 (.71 +/- 0.10)	0.031 +/- 0.006 (0.78 +/- 0.15)	0.033 +/- 0.006 (0.83 +/- 0.15)	0.036 +/- 0.006 (0.91 +/- 0.15)	0.039 +/- 0.006 (.99 +/- 1.6)
Overall Width In. (mm)	0.209 +/- 0.040 (5.3 +/- 1.0)	0.303 +/- 0.052 (7.7 +/- 1.3)	0.398 +/- 0.063 (10.1 +/- 1.6)	0.587 +/- 0.063 (14.9 +/- 1.6)	0.776 +/- 0.063 (19.7 +/- 1.6)	1.21 +/- 0.063 (30.8 +/- 1.6)	1.63 +/- 0.063 (41.38 +/- 1.6)
Overall Height In. (mm)	0.020 (0.508)	0.020 (0.508)	0.020 (0.508)	0.022 (0.558)	0.023 (0.582)	0.025 (0.63)	0.03 (0.76)
Dimensional Reference (if the wire or cable diameter is less than or equal to)							

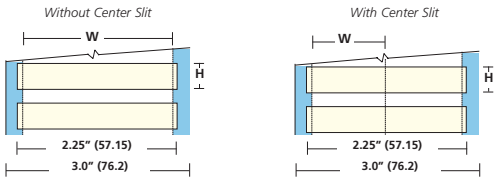


*As supplied **Recovered

* Contact HellermannTyton for custom color options.

** Meets printer performance requirements of SAE-AS81531 using the ribbons listed above in any thermal transfer printer, including HellermannTyton's TT320SM and TT1210

ShrinkTrak™ Heat Shrinkable Markers *continued*

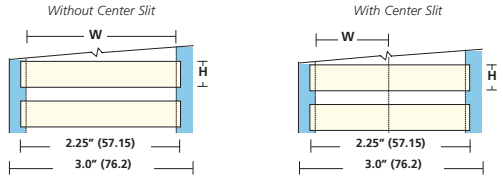


Product Selection

Article No.	Part No.	Type	Cross Ref to Former Part No.	Color	Center Slit	Width (W) In. (mm.)	Height (H) In. (mm.)	Pkg. Qty.
0.125″ (3.17mm) - Outside Diameter								
553-50001	**553-50001**	HST3-1BK	THS-610BM	Black	-	1.9″ (48.26)	.235″ (5.97)	250
553-50002	**553-50002**	HST3-1WH	THS-610W	White	-	1.9″ (48.26)	.235″ (5.97)	250
553-50003	**553-50003**	HST3-1WH	THS-610W10C	White	-	1.9″ (48.26)	.235″ (5.97)	1000
553-50078	**553-50078**	HST3-1WH	THS-610W25C	White	-	1.9″ (48.26)	.235″ (5.97)	2500
553-50004	**553-50004**	HST3-1WH-S	THS-610WP	White	Single	.95″ (24.1)	.235″ (5.97)	500
553-50074	**553-50074**	HST3-1WH-S	THS-610WP10C	White	Single	.95″ (24.1)	.235″ (5.97)	2000
553-50067	**553-50067**	HST3-1WH-S	THS-610WP25C	White	Single	.95″ (24.1)	.235″ (5.97)	5000
553-50070	**553-50070**	HST3-1WH-2S	THS-610W2P	White	Double	.63″ (16.08)	.235″ (5.97)	750
553-50075	**553-50075**	HST3-1WH-2S	THS-610W2P10C	White	Double	.63″ (16.08)	.235″ (5.97)	3000
553-50063	**553-50063**	HST3-1WH-3S	THS-610W3P	White	Triple	.475″ (12.07)	.235″ (5.97)	1000
553-50088	**553-50088**	HST-32WH3S10C	THS-610W3P10C	White	Triple	.475″ (12.07)	.235″ (5.97)	4000
553-50006	**553-50006**	HST3-1YE	THS-610Y10C	Yellow	-	1.9″ (48.26)	.235″ (5.97)	1000
553-50005	**553-50005**	HST3-1YE	THS-610Y	Yellow	-	1.9″ (48.26)	.235″ (5.97)	250
553-50007	**553-50007**	HST3-1YE-S	THS-610YP	Yellow	Single	.95″ (24.1)	.235″ (5.97)	500
553-50076	**553-50076**	HST3-1YE-S	THS-610YP10C	Yellow	Single	.95″ (24.1)	.235″ (5.97)	2000
553-50071	**553-50071**	HST3-1WH-2S	THS-610Y2P	Yellow	Double	.63″ (16.08)	.235″ (5.97)	750
553-50077	**553-50077**	HST3-1YE-2S	THS-610Y2P10C	Yellow	Double	.63″ (16.08)	.235″ (5.97)	3000
0.187″ (4.74 mm) - Outside Diameter								
553-50008	**553-50008**	HST4.8-16BK	THS-615BM	Black	-	1.9″ (48.26)	.312″ (7.92)	250
553-50009	**553-50009**	HST4.8-16WH	THS-615W	White	-	1.9″ (48.26)	.312″ (7.92)	250
553-50010	**553-50010**	HST4.8-16WH	THS-615W10C	White	-	1.9″ (48.26)	.312″ (7.92)	1000
553-50177	**553-50177**	HST4.8-1WH	THS-615W30C	White	-	1.9″ (48.26)	.312″ (7.92)	3000
553-50079	**553-50079**	HST4.8-1WH	THS-615W50C	White	-	1.9″ (48.26)	.312″ (7.92)	5000
553-50011	**553-50011**	HST4.8-16WH-S	THS-615WP	White	Single	.95″ (24.1)	.312″ (7.92)	500
553-50080	**553-50080**	HST4.8-1WH-2S	THS-615WP10C	White	Single	.95″ (24.1)	.312″ (7.92)	2000
553-50068	**553-50068**	HST4.8-1WH-2S	THS-615W2P	White	Double	.633″ (16.08)	.312″ (7.92)	750
553-50072	**553-50072**	HST4.8-1WH-2S	THS-615W2P10C	White	Double	.633″ (16.08)	.312″ (7.92)	3000
553-50064	**553-50064**	HST4.8-1WH-3S	THS-615W3P	White	Triple	.475″ (12.07)	.312″ (7.92)	1000
553-50081	**553-50081**	HST4.8-1WH-3S	THS-615W3P10C	White	Triple	.475″ (12.07)	.312″ (7.92)	4000
553-50013	**553-50013**	HST4.8-1.6YE	THS-615Y10C	Yellow	-	1.9″ (48.26)	.312″ (7.92)	1000
553-50012	**553-50012**	HST4.8-16YE	THS-615Y	Yellow	-	1.9″ (48.26)	.312″ (7.92)	250
553-50014	**553-50014**	HST4.8-1.6YE-S	THS-615WP	Yellow	Single	.95″ (24.1)	.312″ (7.92)	500
553-50069	**553-50069**	HST4.8-1YE-2S	THS-615Y2P	Yellow	Double	.633″ (16.08)	.312″ (7.92)	750
553-50073	**553-50073**	HST4.8-1YE-2S	THS-615Y2P10C	Yellow	Double	.633″ (16.08)	.312″ (7.92)	3000

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

ShrinkTrak™ Heat Shrinkable Markers *continued*



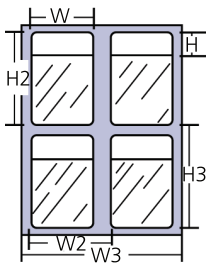
Product Selection

Article No.	Part No.	Type	Cross Ref to Former Part No.	Color	Center Slit	Width (W) In. (mm.)	Height (H) In. (mm.)	Pkg. Qty.
0.25″ (6.35mm) - Outside Diameter								
553-50015	**553-50015**	HST6-2BK	THS-620BM	Black	-	1.9″ (48.26)	.420″ (10.67)	250
553-50016	**553-50016**	HST6-2WH	THS-620W	White	-	1.9″ (48.26)	.420″ (10.67)	250
553-50017	**553-50017**	HST6-2WH	THS-620W10C	White	-	1.9″ (48.26)	.420″ (10.67)	1000
553-50018	**553-50018**	HST6-2WH	THS-620W50C	White	-	1.9″ (48.26)	.420″ (10.67)	5000
553-50019	**553-50019**	HST6-2WH-S	THS-620WP	White	Single	.95″ (24.1)	.420″ (10.67)	500
553-50084	**553-50084**	HST6-2WH-S	THS-620WP10C	White	Single	.95″ (24.1)	.420″ (10.67)	2000
553-50082	**553-50082**	HST6-2WH-2S	THS-620W2P	White	Double	.633″ (16.08)	.420″ (10.67)	750
553-50065	**553-50065**	HST6-2WH-3S	THS-620W3P	White	Triple	.475″ (12.07)	.420″ (10.67)	1000
553-50089	**553-50089**	HST6-2WH-3S	THS-620W3P10C	White	Triple	.475″ (12.07)	.420″ (10.67)	4000
553-50020	**553-50020**	HST6-2YE	THS-620Y	Yellow	-	1.9″ (48.26)	.420″ (10.67)	250
553-50021	**553-50021**	HST6-2YE	THS-620Y10C	Yellow	-	1.9″ (48.26)	.420″ (10.67)	1000
553-50022	**553-50022**	HST6-2YE-S	THS-620YP	Yellow	Single	.95″ (24.1)	.420″ (10.67)	500
553-50085	**553-50085**	HST6-2YE-S	THS-620YP10C	Yellow	Single	.95″ (24.1)	.420″ (10.67)	2000
553-50083	**553-50083**	HST6-2YE-2S	THS-620Y2P	Yellow	Double	.633″ (16.08)	.420″ (10.67)	750
0.375″ (9.52 mm) - Outside Diameter								
553-50023	**553-50023**	HST9-3BK	THS-625BM	Black	-	1.9″ (48.26)	.597″ (15.16)	250
553-50024	**553-50024**	HST9-3WH	THS-625W	White	-	1.9″ (48.26)	.597″ (15.16)	250
553-50025	**553-50025**	HST9-3WH-S	THS-625WP	White	Single	.95″ (24.1)	.597″ (15.16)	500
553-50066	**553-50066**	HST9-3WH-3S	THS-625W3P	White	Triple	.475″ (12.07)	.597″ (15.16)	1000
553-50026	**553-50026**	HST9-3YE	THS-625Y	Yellow	-	1.9″ (48.26)	.597″ (15.16)	250
553-50027	**553-50027**	HST9-3YE-S	THS-625YP	Yellow	Single	.95″ (24.1)	.597″ (15.16)	500
0.50″ (12.7 mm) - Outside Diameter								
553-50028	**553-50028**	HST12-4BK	THS-630BM	Black	-	1.9″ (48.26)	.77″ (19.55)	250
553-50029	**553-50029**	HST12-4WH	THS-630W	White	-	1.9″ (48.26)	.77″ (19.55)	250
553-50030	**553-50030**	HST12-4WH-S	THS-630WP	White	Single	.95″ (24.1)	.77″ (19.55)	500
553-50086	**553-50086**	HST12-4WH-3S	THS-630W3P	White	Triple	.475″ (12.07)	.77″ (19.55)	1000
553-50031	**553-50031**	HST12-4YE	THS-630Y	Yellow	-	1.9″ (48.26)	.77″ (19.55)	250
553-50032	**553-50032**	HST12-4YE-S	THS-630YP	Yellow	Single	.95″ (24.1)	.77″ (19.55)	500
553-50087	**553-50087**	HST12-4YE-3S	THS-630Y3P	Yellow	Triple	.475″ (12.07)	.77″ (19.55)	1000
0.75″ (19.05 mm) - Outside Diameter								
553-50033	**553-50033**	HST18-6BK	THS-635BM	Black	-	1.9″ (48.26)	1.2″ (30.48)	250
553-50034	**553-50034**	HST18-6WH	THS-635W	White	-	1.9″ (48.26)	1.2″ (30.48)	250
553-50035	**553-50035**	HST-18-6WH-S	THS-635WP	White	Single	.95″ (24.1)	1.2″ (30.48)	500
553-50036	**553-50036**	HST-18-6YE	THS-635Y	Yellow	-	1.9″ (48.26)	1.2″ (30.48)	250
553-50037	**553-50037**	HST18-6YE-S	THS-635YP	Yellow	Single	.95″ (24.1)	1.2″ (30.48)	500
1.0″ (25.4mm) - Outside Diameter								
553-50038	**553-50038**	HST24-8BK	THS-640BM	Black	-	1.9″ (48.26)	1.69″ (42.93)	250
553-50039	**553-50039**	HST24-8WH	THS-640W	White	-	1.9″ (48.26)	1.69″ (42.93)	250
553-50040	**553-50040**	HST24-8WH-S	THS-640WP	White	Single	.95″ (24.1)	1.69″ (42.93)	500
553-50041	**553-50041**	HST24-8YE	THS-640Y	Yellow	-	1.9″ (48.26)	1.69″ (42.93)	250
553-50042	**553-50042**	HST24-8YE-S	THS-640YP	Yellow	Single	.95″ (24.1)	1.69″ (42.93)	500

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

Thermal Transfer Self-Laminating Labels

HellermannTyton's self-laminating labels are used for marking wire and cable. The clear overlap protects printed information.



Product Selection

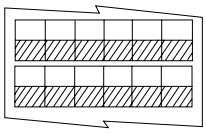
Article No.	Part No.	Type	Drawing Reference (page 35)	Width (W) In. (mm)	Height of Printable Area (H) In. (mm)	Height of Label (H2) In. (mm)	Vertical Repeat (H3) In. (mm)	Horizontal Repeat (W2) In. (mm)	Width of Liner (W3) In. (mm)	Labels per Row	Pkg. Qty.
100B Material											
596-00009	**TAG26T6-100B**	TAG26T6	A	.5″ (12.7)	.375″ (9.52)	.75″ (19.05)	1.0″ (25.4)	.5″ (12.7)	3.35″ (85.09)	6	10000
596-00010	**TAG2T5-100B**	TAG2T5	B	.5″ (12.7)	.5″ (12.7)	1.43″ (36.5)	1.62″ (41.28)	.66″ (16.81)	3.35″ (85.09)	5	10000
596-00014	**TAG51T3-100B**	TAG51T3	C	1.0″ (25.4)	.35″ (8.8)	.75″ (19.05)	.937″ (23.7)	1.075″ (27.3)	3.35″ (85.09)	3	10000
596-00006	**TAG22T2-100B**	TAG22T2	D	1.0″ (25.4)	.5″ (12.7)	1.43″ (36.5)	1.62″ (41.28)	1.075″ (27.3)	2.25″ (57.1)	2	5000
596-00007	**TAG22T3-100B**	TAG22T3	E	1.0″ (25.4)	.5″ (12.7)	1.43″ (36.5)	1.62″ (41.28)	1.075″ (27.3)	3.35″ (85.09)	3	5000
596-00027	**TAG9T3-100B**	TAG9T3	F	1.0″ (25.4)	.75″ (19.05)	2.25″ (57.1)	2.5″ (63.5)	1.0″ (25.4)	3.35″ (85.09)	3	5000
596-00013	**TAG3T3-100B**	TAG3T3	G	1.0″ (25.4)	1.0″ (25.4)	3.75″ (95.25)	4.0″ (101.6)	1.075″ (27.3)	3.35″ (85.09)	3	3000
596-00011	**TAG38T4-100B***	TAG38T4	H	1.0″ (25.4)	1.5″ (38.1)	7.347″ (188.89)	7.75″ (196.80)	1.0″ (25.4)	4.10″ (104.14)	4	1000
596-00045	**TAG53T2-100B**	TAG53T2	I	3.35″ (38.1)	.7″ (17.78)	1.437″ (36.49)	1.62″ (41.28)	1.5″ (38.1)	3.35″ (89.05)	2	2500
596-00005	**TAG1T1-100B**	TAG1T1	J	1.9″ (19.05)	.75″ (19.05)	3.12″ (79.2)	3.42″ (86.8)	1.9″ (48.2)	3.875″ (98.42)	2	2500
596-00008	**TAG24T1-100B**	TAG24T1	K	2.0″ (50.8)	.5″ (12.7)	1.437″ (36.49)	1.68″ (42.6)	2.0″ (50.8)	2.2″ (55.9)	1	1000
596-00002	**TAG10T2-100B**	TAG10T2	L	2.0″ (50.8)	.75″ (19.05)	2.25″ (57.1)	2.5″ (63.5)	2.0″ (50.8)	3.875″ (98.42)	2	2500
596-00021	**TAG7T1-100B***	TAG7T1	M	2.0″ (50.8)	1.5″ (38.1)	7.347″ (188.89)	7.75″ (196.80)	2.0″ (50.8)	4.10″ (104.14)	2	1000
596-00016	**TAG6T1-100B**	TAG6T1	N	2.0″ (50.8)	1.5″ (38.1)	3.75″ (95.25)	4.0″ (101.6)	2.0″ (50.8)	2.20″ (68.58)	1	1000

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

** TAG38T4-100B and TAG7T1-100B require that 256K of memory be installed in the TT1000 printer and 384K of memory in the TT300SM printer*

Thermal Transfer Self-Laminating Labels *continued*

(Not shown to scale)



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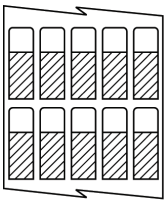

TAG2T5-100B
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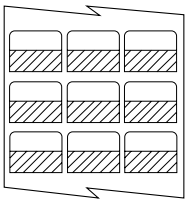

TAG51T3-100B
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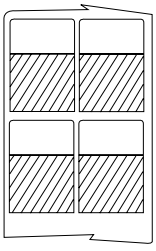

TAG22T2-100B
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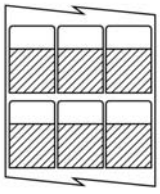

TAG22T3-100B
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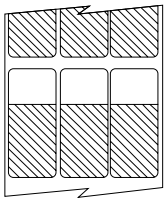

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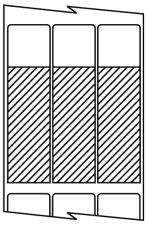

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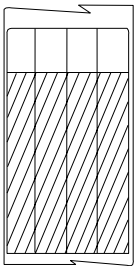

TAG38T4-100B
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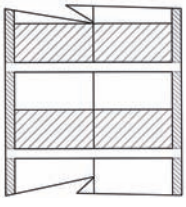

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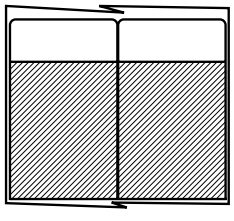

TAG1T1-100B
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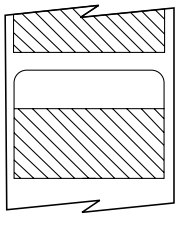

TAG24T1-100B
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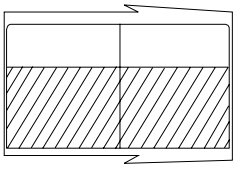

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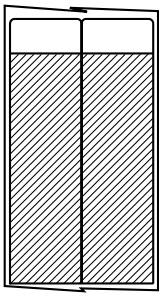

TAG7T1-100B
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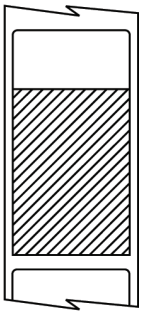
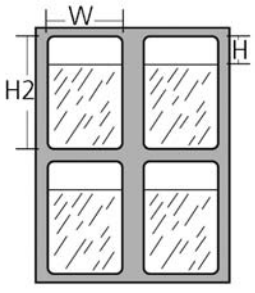


TAG6T1-100B
N

Self-Laminating Laser Tags

HellermannTyton self-laminating Laser Tags are durable, yet conformable to compound surfaces like wires and cables. These labels can be wrapped onto wires without fear of flagging or popping off the wires. The clear overlap protects printed information. Self-laminating Laser Tags are made of 1.0 MIL polyester (105 material).



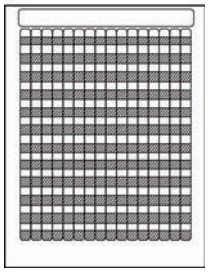
Product Selection

Article No.	Part No.	Type	Drawing References (page 37)	Width (W) In.	Width (W) (mm.)	Height of Printable Area (H) In.	Height of Printable Area (H) (mm.)	Height of Label (H2) In.	Height of Label (H2) (mm.)	Labels per Row	Labels per Column	Labels per Sheet	Pkg. Qty.
105 Material													
594-26105	**TAG26L-105**	TAG26L	A	.5″	(12.70)	.375″	(9.5)	.75″	(19.0)	16	16	156	5000
594-02105	**TAG2L-105**	TAG2L	B	.5″	(12.70)	.5″	(12.7)	1.43″	(36.5)	16	7	112	5000
594-05105	**TAG5L-105**	TAG5L	C	.8″	(20.30)	.5″	(12.7)	1.43″	(36.4)	8	7	56	5000
594-65105	**TAG65L-105**	TAG65L	D	.81″	(20.70)	.81″	(20.7)	2.13″	(53.9)	9	4	36	1000
594-51105	**TAG51L-105**	TAG51L	E	1.0″	(25.40)	.35″	(8.89)	.75″	(19.0)	8	12	84	5000
594-49105	**TAG49L-105**	TAG49L	F	1.0″	(25.40)	.35″	(8.8)	1.0″	(25.5)	8	8	70	2500
594-63105	**TAG63L-105**	TAG63L	G	1.0″	(25.40)	.5″	(12.7)	1.33″	(33.78)	8	7	49	2500
594-09105	**TAG9L-105**	TAG9L	H	1.0″	(25.40)	.75″	(19.00)	2.25″	(57.1)	7	4	28	1000
594-50105	**TAG50L-105**	TAG50L	I	1.0″	(25.40)	1.0″	(25.4)	3.16″	(80.4)	8	3	21	1000
594-64105	**TAG64L-105**	TAG64L	J	1.17″	(29.6)	.83″	(21.08)	3.33″	(84.6)	6	3	18	1000
594-01105	**TAG1L-105**	TAG1L	K	1.9″	(48.20)	.75″	(19.0)	3.25″	(82.5)	4	3	12	1000
594-52105	**TAG52L-105**	TAG52L	L	2.0″	(50.80)	.47″	(33.70)	1.33″	(33.7)	3	7	21	1000
594-10105	**TAG10L-105**	TAG10L	M	2.0″	(50.8)	.75″	(19.1)	2.25″	(57.2)	4	4	16	1000

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

Self-Laminating LaserTags *continued*

(Not shown to scale)



TAG26L-105
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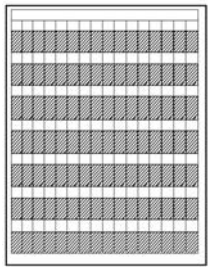

TAG2L-105
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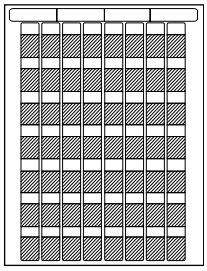

TAG5L-105
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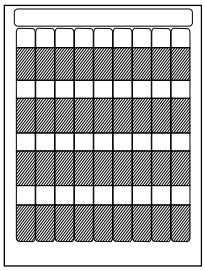

TAG65L-105
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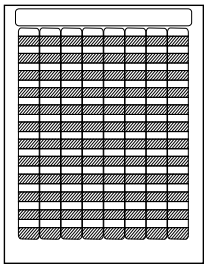

TAG51L-105
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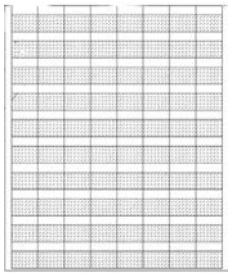

TAG49L-105
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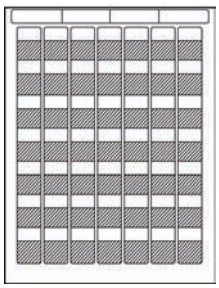

TAG63L-105
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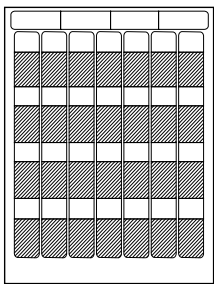
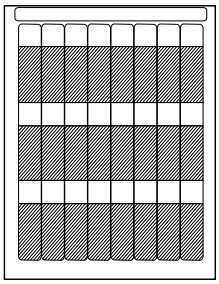


TAG9L-105
H



TAG50L-105
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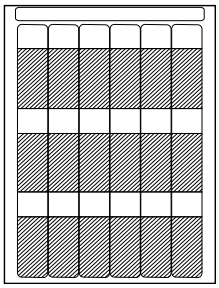

TAG64L-105
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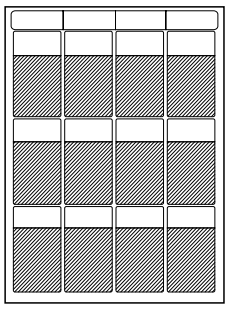

TAG1L-105
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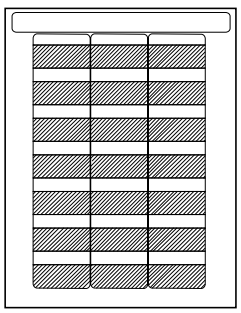

TAG52L-105
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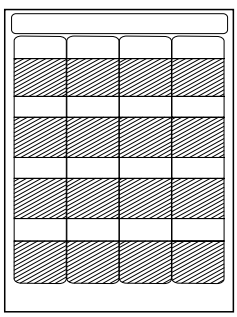

TAG10L-105
M

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Bolingbrook, IL

Manufacturing

Naples, FL

Sales and Distribution

Tlaquepaque, Jalisco Mexico

Sales and Distribution

Aurora, Ontario Canada

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