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CABLE TIES

HellermannTyton manufactures a full line of high quality cable ties in a variety of styles, sizes, materials, and colors. Used to bundle and secure wire and cable, HellermannTyton cable ties are engineered and manufactured for maximum performance and quality.

Ask the Experts

HellermannTyton cable ties consistently out-perform the competition.

For over 30 years, HellermannTyton has been producing cable ties to world class standards. From the early design stages through testing, production, and packaging, HellermannTyton has continually implemented new technologies and materials to refine and perfect cable tie manufacturing. Serving the changing landscape of fastening requirements, HellermannTyton's cable ties are available in styles and materials to suit a multitude of applications.



Commitment to Quality

HellermannTyton's commitment to quality is evident by its certification to QS 9000 and ISO 9001 quality system requirements.

HellermannTyton has established and maintains an effective system to ensure a high quality product.

Concepts of new cable ties are developed from design specifications and detailed on the very latest, solid modeling CAD systems. The production of a HellermannTyton cable tie includes material selection which must meet the high standards set by Engineering and Quality Assurance specifications. To provide a consistently high quality product, HellermannTyton conducts Advanced Product Quality Planning which includes the Failure Mode and Effects Analysis (FMEA). The FMEA is a proactive analysis used to look at "what if" scenarios in the design development process as well as in the post production analysis. The tests help determine the best design and production qualities for a particular cable tie.

Throughout the manufacturing process, Statistical Process Control is used to control product and process characteristics to consistently monitor that the product is within specification. HellermannTyton also conducts physical and mechanical inspections to further verify that the cable ties are within specification.

When there is a change which might affect the quality of a cable tie – including change in material or mold– the cable tie's tensile strength, pull-out force, moisture content, and other characteristics are physically checked to ensure a high performance cable tie.

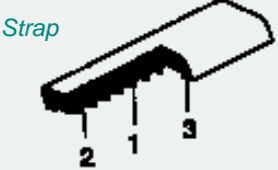
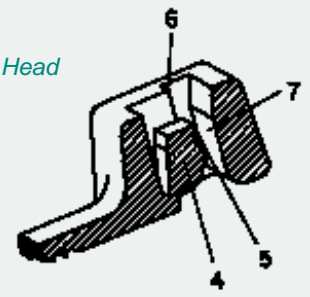
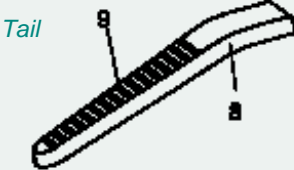
Because every cable tie from HellermannTyton is designed and manufactured to such particular standards, the cable tie is easy to install. The insertion force is low and pull-out force is high, which reduces the effort and time needed to apply each cable tie. Also, due to defect prevention, HellermannTyton cable ties maintain higher tensile strengths.

Using proprietary, state of the art equipment, HellermannTyton offers a fully automated, "closed loop" approach to manufacturing. This system reduces the chances of human error, materials or packaging contamination, and other discretionary variables which may affect the product's quality. The fully automated manufacturing system also ensures that the first person to touch a HellermannTyton cable tie is the end user.

Through continual research, testing, and investments in manufacturing technologies and equipment, HellermannTyton's stringent standards and reputation as the experts in cable tie manufacturing are maintained and strengthened.

Construction of HellermannTyton Cable Ties

HellermannTyton cable ties consist of three components: strap, head, and tail. These components are specifically designed to function together to make HellermannTyton cable ties superior in quality and performance.

Component	Precision Engineering	Enhanced Performance
<p><i>Strap</i></p> 	<ol style="list-style-type: none"> 1. Includes load bearing serrations. 2. Features flats between the serrations. 3. Features the double outer rail system. 	<ol style="list-style-type: none"> 1. Serrations provide complete adjustability within the fastening range. 2. Flats reduce stress concentrations and help make the tie stronger. 3. Smooth rails promote low drag coefficient, as well as minimize wire chafing.
<p><i>Head</i></p> 	<ol style="list-style-type: none"> 4. The pawl is integrally formed with the head. 5. The pawl is stepped in order to wedge against the serrations in the strap to form the lock. 6. The shoulders, or the sides of the head, guide the strap and prevent it from disengaging from the pawl during loaded conditions. 7. The back supports the strap during the wedging of the lock formation. 	<ol style="list-style-type: none"> 4. The locking unit will not disengage. It also promotes low insertion with high pull out force for very easy installation. 5. The tie's ultimate strength achieves optimum levels. 6. Promotes cable tie strength, endurance, and longevity. 7. Ensures optimum locking capability.
<p><i>Tail</i></p> 	<ol style="list-style-type: none"> 8. Features a bent tip. 9. Includes a ribbed grip. 	<ol style="list-style-type: none"> 8. Easy pick-up for installers, which leads to fast assembly. 9. Allows for easy, no-slip grip.

Standards Compliance

U.L. Standard

Cable tie products displaying the U.L. Recognized component mark in HellermannTyton literature are recognized under the component recognition program of Underwriters Laboratories, Inc., and have been tested to meet UL 1565.



Other Standards

Depending upon the style and material, HellermannTyton cable ties also meet such standards as Military Specifications, Federal Specifications, ASTM, and more. Contact HellermannTyton for more information.

MATERIALS

HellermannTyton has worked very closely with its material suppliers to develop resins that are specifically formulated for cable tie production. Superior quality materials are essential for superior quality cable ties. HellermannTyton has spearheaded material advancements in cable tie manufacturing to assure its customers of the finest quality products.

Environmental factors can have an adverse effect on cable ties. **It is very important to use the most suitable material for each application.** HellermannTyton cable ties are available in a variety of materials ranging from polyamides (nylon 6/6) to fluoropolymers (Tefzel and Halar).

Nylon 6/6 – General Purpose

General purpose nylon 6/6 features light weight, high strength and a wide temperature range. It is halogen free so it does not release dangerous gases, such as chlorine, bromine, fluorine and iodine when burned. Nylon 6/6 is hygroscopic, and therefore, absorbs or releases moisture depending on its environment. Thus, the moisture level of the material will affect tensile strength, stiffness and elongation of the product.

Nylon 6/6 – Heat Stabilized

With similar properties and benefits as nylon 6/6, products manufactured with heat stabilized nylon 6/6 material have a chemical stabilizer added for higher continuous temperature applications.

Nylon 6/6 – UV Stabilized

Chemical inhibitors are used to give nylon 6/6 material added properties to fight against premature aging of products due to the effects of ultraviolet rays.

Nylon 6/6 – UV Stabilized

(2% Carbon for Military Specification)

The physical properties of this material include carbon, which acts as a UV stabilizer, prolonging the life of the product under ultraviolet conditions. It also allows HellermannTyton's black cable ties to meet the particular military specification for cable ties.

Nylon 6/6 – V0 Flame Retardant

This material meets UL 94V-0 flammability requirements. Flame retardant additives generally reduce tensile strength when compared to general-purpose nylon 6/6, but this resin has been formulated to minimize such effects.

Nylon 6/6 – High Impact

Impact modifiers are added to increase flexibility. High impact nylon 6/6 has stable tensile strength due to its reduced influence from moisture. It is excellent for high vibration applications, as within the aircraft and automobile industries and performs better than nylon 6/6 against ultraviolet rays. Good for outdoor use.

Nylon 4/6

Nylon 4/6, like nylon 6/6, offers light weight and high strength benefits, but offers an even wider temperature range. This material can be used at a higher continuous operating temperature than nylon 6/6 - heat stabilized. In addition to having excellent heat resistance, nylon 4/6 has low creep effects and retention of stiffness at elevated temperatures.

Polypropylene

Polypropylene is used in environments where chemical effects on nylon are a concern. It is not affected by inorganic acids (hydrochloric), polyhydric alcohols (ethyleneglycol), neutral salts (sodium chloride) and basic salts (sodium bicarbonate). Polypropylene also resists a number of other chemicals with good results, although it has lower tensile strength than nylon 6/6 (about half). Polypropylene has good UV resistance.

Nylon 12

Although not as strong as nylon 6/6 (about half), nylon 12 is extremely flexible, absorbs little moisture, ages better and has better chemical and UV resistance than general purpose nylon 6/6. Nylon 12 is good for applications where products are exposed to metal oxides.

Tefzel

Although about two-thirds the strength of nylon 6/6, Tefzel is resistant to a wide range of chemicals, such as concentrated hydrofluoric and sulfuric acids. It is also a low water absorbing material, therefore, is not adversely affected by water. Tefzel is radiation resistant up to 100 megarads and meets the fire and smoke requirements of IEEE 383. Tefzel also withstands high temperatures and ultraviolet light exposure. Products made from Tefzel material also have non-outgassing properties for zero gravity applications.

- *Tefzel is a registered trademark of E.I. DuPont Corporation.*
- *Desired cable tie size may be limited due to restrictions caused by the nature of the characteristics of producing materials other than general purpose nylon 6/6.*

Halar

Halar is similar to Tefzel in performance and benefits. Halar is recognized for its low smoke density attribute when burned. This makes products made out of Halar more desirable for use in areas where smoke generation is a concern, as when bundling wire and cable in air handling spaces.

• Halar is a registered trademark of Ausimont Chemical Company.

Material Specifications

Material	Continuous* Operating Temperature		Tensile Strength at 73°F Dry as Molded ASTM D-638 (PSI)	UL Flame Rating	Oxygen Index %	Gamma Radiation Resistance	UV Resistance	Military, Federal, ASTM and FDA Specifications
	Max.	Min.						
Nylon 6/6- General Purpose	185°F 85°C	-40°F -40°C	12,000	94V-2	28	1 x 10 ⁵ Rads	Poor	ASTM D-4066PA0111 FDA CFR177.1500
Nylon 6/6- Heat Stabilized (HS)	220°F 105°C	-40°F -40°C	12,000	94V-2	26	1 x 10 ⁵ Rads	Poor	ASTM D-4066PA0121
Nylon 6/6- UV Stabilized (UV)	185°F 85°C	-40°F -40°C	12,000	94V-2	26	1 x 10 ⁵ Rads	Good	ASTM D-4066PA0191
Nylon 6/6-2% Carbon UV Stabilized (0UV)	220°F 105°C	-40°F -40°C	12,000	94V-2	26	1 x 10 ⁵ Rads	Good	ASTM D-4066PA0181 MS3367/8
Nylon 6/6- Flame Retardant (V0)	185°F 85°C	-40°F -40°C	10,800	94V-0	34	1 x 10 ⁵ Rads	Poor	ASTM D-4066PA0110
Nylon 6/6- High Impact (HIR)	185°F 85°C	-40°F -40°C	8,800	94-HB	19	1 x 10 ⁵ Rads	Good	ASTM D-4066PA0150
Nylon 4/6- Heat Stabilized (STNL)	275°F 135°C	-40°F -40°C	14,400	94V-2	27	9 x 10 ⁶ Rads	Poor	ASTM D-4066PA0922
Polypropylene- Chemical Resistant (PP)	185°F 85°C	-40°F -40°C	3,400	94-HB	N/A	1 x 10 ⁵ Rads	Good	ASTM D-4101PP0320 FDA CFR177.1520
Nylon 12- UV Stabilized (UV)	176°F 80°C	-40°F -40°C	5,800	94-HB	N/A	1 x 10 ⁵ Rads	Good	ASTM D-4066PA411
Tefzel® (TZ)	302°F 150°C	-50°F -46°C	5,800	94V-0	30	2 x 10 ⁸ Rads	Excellent	UL2043 ASTM D-3159 Type 1 Grade 1
Halar® (HAL)	284°F 140°C	-50°F -46°C	6,100	94V-0	52	2 x 10 ⁸ Rads	Excellent	ASTM D-3275 Type 3 FDA CFR177.1380

*Elevated temperatures, over time, will affect materials' properties such as tensile strength, stiffness, elongation and appearance.

HellermannTyton recommends the evaluation of cable ties in the actual application to determine the suitability of the tie for that application.

Tefzel is a registered trademark of E.I. DuPont Corporation. Halar is a registered trademark of Ausimont Chemical Co.

Material Performance Guide

10 = Most Recommended 1 = Least Recommended

Selection	Nylon 6/6 General Purpose	Nylon 6/6 Heat Stab.	Nylon 6/6 UV Stab.	Nylon 6/6 2%Carbon UV Stab.	Nylon 6/6 Flame Ret. V0	Nylon 6/6 High Impact	Nylon 4/6 Heat Stab.	Poly-propylene	Nylon 12 UV Stab.	Tefzel®	Halar®
Tensile Strength	8	8	8	9	7	8	10	2	4	5	5
High Temp.	2	3	2	2	2	2	9	2	1	10	10
Flammability	5	5	5	5	10	2	5	2	2	10	10
UV Resistance	1	1	5	8	1	2	1	5	3	10	10
Radiation	3	3	3	3	3	3	3	6	3	10	10
Chemical Resistance	6	6	6	6	6	6	6	8	8	10	10
-Hydrocarbons	8	8	8	8	8	8	8	6	8	10	10
-Chlorinated Hydrocarbons	6	6	6	6	6	6	6	3	8	10	10
-Acids	2	2	2	2	2	2	2	8	5	10	10
-Bases	6	6	6	6	6	6	6	8	6	10	10
-Salts	3	3	3	3	3	3	3	10	8	10	10
Relative Cost	Low	Low	Med.	Med.	Med.	Med.	Med.	Med.	Med.	High	High

CABLE TIE PART NUMBER SYSTEM

The following chart is meant to help you understand HellermannTyton's cable tie part numbering system. **Not every cable tie type is available in every listed option.** See cable tie part number charts or contact HellermannTyton for more information.

Example: T50L0C2

T	50	L		0		C	2
Type	Min. Tensile Strength (lbs.)	Length	Special Features	Color	Material	Packaging (per pkg.)	Bag Type
T = Standard tie	18	S = Short	SF = Push Mount Head	see below	see below	P = 10	2 or 4 = HellermannTyton labeled bag
RT = Releasable tie	20	R	DH = Double Head			S = 20	
REL = Releasable tie	30	M	FL = Flag I.D.			X = 25	
REZ = Pinch releasable tie	40	I	RD = Double Head I.D.			K = 50	
FB = Ladder style tie	50	L	RT = Triple Head I.D.			C = 100	
IT = Identification tie	60	LL	SM = Stud Mount			L = 200	
BT = Button head tie	120	XL	PS = Positive Stop			F = 250	
CTT = Clamp tie	150	XLL = Longest	MR = Screw Mount Head			H = 500	
PE = Parallel entry tie	175		ML = Screw Mount Head			M = 1000	
LK = Outside serrated tie	175						
GT = Grip tie	250						
MBT = Stainless steel tie							
DCT = Dual clamp tie							

CABLE TIE COLORS

Color Coding Standard

HellermannTyton complies with the Electronic Industries Association color coding standard which defines colors used in identification of electronic components and equipment and establishes a standard color-number relationship. The following is the color-number suffix for HellermannTyton part numbers and military standard part numbers.

Color/Material Coding			
Material	Color	Part No. Suffix	Mil. Spec.
Nylon	Natural	9	MS3367 MS3368 ASTM4066
	Black	0	-
	Brown	1	1
	Red	2	2
	Orange	3	3
	Yellow	4	4
	Green	5	5
	Blue	6	6
	Violet Purple	7	7
	Slate Gray	8	8
	White	10	-
	Telco Gray	11	-
	Heat Stab. Black	0HS	-
	Heat Stab. Natural	9HS	-
	Flame Ret. Black	0V0	-
	Flame Ret. Natural	9V0	-
	Black 2% Carbon	0UV*	0

Color/Material Coding		
Material	Color	Part No. Suffix
Nylon	High Impact Black	0HIR*
	Nylon 4/6 Brown	1STNL
	Nylon 4/6 Black	0STNL
	Nylon 12 Black	0N12*
Polypropylene	Black	0PP*
	Natural	9PP
Tefzel	Blue	6TZ
Halar	Natural	9HAL
	Red	2HAL

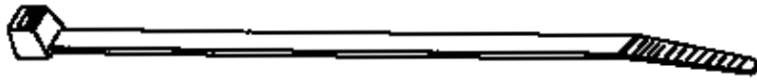
Availability of some colors is based on volume requirements. Fluorescent and other colors may also be available. All colored ties are subject to minimums, custom terms, and lead times. Contact HellermannTyton for more information.

*Ultraviolet stabilized for outdoor applications.

CABLE TIES

HellermannTyton offers many options of cable ties. Whether the application demands mounting, extra strength, releasable, identification features, or more, HellermannTyton has the cable tie to fit the requirement.

Standard Cable Ties



U.S. Patent Numbers 3,127,648 – 3,486,201

Standard Ties							
HellermannTyton Part No.	Gov. Designation	Min. Tensile Strength (lbs.)	Maximum Bundle Dia. In. (mm)	Approx. Length In. (mm)	Approx. Width In. (mm)	Pkg. Qty.	HellermannTyton Installation Tools
T18S9C2* T18S9M4*	MS3367-4	18	5/8" (15.9)	3-3/8" (85.7)	.08" (2.0)	100 1000	TWT1, MK3P, MK7, MK7P
T18R9C2* T18R9M4*	MS3367-4	18	3/4" (19.0)	4" (101.6)	.10" (2.5)	100 1000	TWT1, MK3P, MK7, MK7P, MK9
T18I9C2** T18I9M4**	MS3367-4	18	1-1/4" (31.8)	5-2/3" (143.9)	.10" (2.5)	100 1000	
T18L9C2** T18L9M4**	MS3367-4	18	2" (50.8)	8" (203.2)	.10" (2.5)	100 1000	
T30R9C2* T30R9M4*	MS3367-5	30	1-1/4" (31.8)	6" (152.4)	.14" (3.6)	100 1000	
T30M9C2 T30M9M4		30	2" (50.8)	8" (203.2)	.14" (3.6)	100 1000	
T30I9C2 T30I9M4		30	3" (76.2)	11-1/4" (285.8)	.15" (3.8)	100 1000	
T30L9C2 T30L9M4		30	4" (101.6)	14-1/4" (362)	.14" (3.6)	100 1000	
T40R9C2* T40R9M4*	MS3367-1	40	2" (50.8)	8-1/2" (215.9)	.15" (3.8)	100 1000	
T40I9C2* T40I9M4*	MS3367-7	40	3" (76.2)	11-1/2" (292.1)	.15" (3.8)	100 1000	
T40L9C2* T40L9M4*	MS3367-2	40	4" (101.6)	14-1/2" (368.3)	.15" (3.8)	100 1000	
T50S9C2 T50S9M4		50	1-1/4" (31.8)	6-1/2" (165.1)	.18" (4.6)	100 1000	TWT1, MK3P, MK6PN, MK7, MK7P, MK9
T50R9C2* T50R9M4*	MS3367-1	50	1-3/4" (44.5)	8" (203.2)	.18" (4.6)	100 100	
T50I9C2* T50I9M4*	MS3367-7	50	3" (76.2)	11-3/4" (298.5)	.18" (4.6)	100 100	
T50L9C2* T50L9M4*	MS3367-2	50	4" (101.6)	15-1/2" (393.7)	.18" (4.6)	100 1000	

Ties listed above are natural. Black colored cable ties are also available in nearly every size. Insert a "0" instead of "9" in the part number. Example: T50R0C2 is a black T50R cable tie in a 100 pack. Other colors may be available. See color chart on page 10. Colored cable ties may be subject to minimums, custom terms, and lead times. * AS23190E (formerly MIL-S-23190E) (Type I Class 1) **HellermannTyton QPL23190 listed as exceeding the tensile strength or length and meeting MS3367 (Type I Class 2)

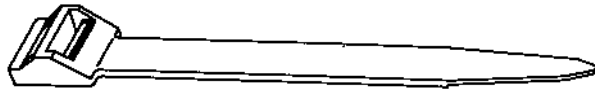
Heavy Duty Lashing Ties



Heavy Duty Ties							
HellermannTyton Part No.	Gov. Designation	Min. Tensile Strength (lbs.)	Maximum Bundle Dia. In. (mm)	Approx. Length In. (mm)	Approx. Width In. (mm)	Pkg. Qty.	HellermannTyton Installation Tools
T120S9K2 T120S9H4		120	2" (50.8)	8-7/8" (225.4)	.30" (7.6)	50 500	TWT2, MK6PN, MK9
T120I9K2 T120I9H4		120	3" (76.2)	11-7/8" (301.6)	.30" (7.6)	50 500	
T120R9K2* T120R9H4*	MS3367-3	120	4" (101.6)	15-1/4" (387.4)	.30" (7.6)	50 500	
T120L9K2*	MS3367-6	120	8-3/4" (222.3)	29-3/4" (755.7)	.30" (7.6)	50	
T150R9X2**	MS3367-3	175	4" (101.6)	15" (381.0)	.35" (8.9)	25	TWT2, T150, T250, MK6PN, MK9
T150M9X2**	MS3367-3	175	6" (152.4)	21" (533.4)	.35" (8.9)	25	
T150L9X2**	MS3367-6	175	9" (228.6)	32" (812.8)	.35" (8.9)	25	
T150LL9X2		175	11" (279.4)	36" (914.4)	.35" (8.9)	25	
T150XL9X2		175	13" (330.2)	43" (1092.2)	.35" (8.9)	25	
T150XLL9X2		175	14" (355.6)	52" (1320.8)	.35" (8.9)	25	

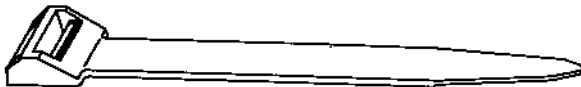
Ties listed above are natural. Black colored cable ties are also available in nearly every size. Insert a "0" instead of "9" in the part number. Other colors may be available. See color chart on page 10. T150 Series available as releasable ties. When ordering, use HellermannTyton Part No. RT150.

*AS23190E (formerly MIL-S-23190E) (Type I Class 1) **HellermannTyton QPL23190 listed as exceeding the tensile strength or length and meeting MS3367 (Type I Class 2)



Heavy Duty T250 Series Ties						
HellermannTyton Part No.*	Min. Tensile Strength (lbs.)	Maximum Bundle Dia. In. (mm)	Approx. Length In. (mm)	Approx. Width In. (mm)	Pkg. Qty.	HellermannTyton Installation Tools
T250S9X2	250	2" (50.8)	9" (228.6)	.50" (12.7)	25	MK9, T250
T250R9X2	250	5" (127.0)	20" (508.0)	.50" (12.7)	25	
T250M9X2	250	6" (152.4)	23" (584.2)	.50" (12.7)	25	
T250I9X2	250	8" (203.2)	29" (736.6)	.50" (12.7)	25	
T250L9X2	250	10" (254.0)	35" (889.0)	.50" (12.7)	25	
T250XL9X2	250	12" (304.8)	40" (1016.0)	.50" (12.7)	25	

Ties listed above are natural. Black colored cable ties are also available in nearly every size. Insert a "0" instead of "9" in the part number. Other colors may be available. See color chart on page 10. *T250 Series available as releasable ties. When ordering, use HellermannTyton Part No. RT250.



HellermannTyton's T255 series heavy duty cable ties are the perfect tie for use with the Heavy Duty Mounts (see page 46). Available in both releasable and standard versions, this adjustable tie can eliminate the need for various sizes of metal P-clamps when used with the Heavy Duty Mounts. Standard material is black high impact nylon 6/6, ideal for high vibration applications. T255 ties are similar to the T250 series, but with the buckle mount feature eliminated.

Heavy Duty T255 Series Ties						
HellermannTyton Part No.	Minimum Tensile Strength (lbs.)	Max. Bundle Dia. In. (mm)	Approx. Length In. (mm)	Approx. Width In. (mm)	Pkg. Qty.	HellermannTyton Installation Tools
T255S0HIRX2	250	2" (50.8)	8.747" (222.17)	.492" (12.50)	25	MK9, T250
T255R0HIRX2	250	5" (127.0)	20.030" (508.77)	.492" (12.50)	25	
T255M0HIRX2	250	6" (152.4)	22.114" (561.70)	.492" (12.50)	25	

Ties listed above are natural. Black colored cable ties are also available in nearly every size. Insert a "0" instead of "9" in the part number. Other colors may be available. See color chart on page 10. T255 Series available as releasable ties. When ordering, use HellermannTyton Part No. RT255.

Releasable Ties

Perfect for prototype construction and service requiring the addition of wires on existing harnesses.



RT40R



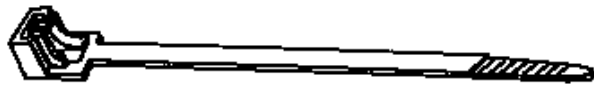
RT50S and RT50LL



Releasable Ties

HellermannTyton Part No.	Min. Tensile Strength (lbs.)	Maximum Bundle Dia. In. (mm.)	Approx. Length In. (mm.)	Approx. Width In. (mm.)	Pkg. Qty.
RT40R9C2 RT40R9M4	40	2" (50.8)	8-1/2" (215.9)	.16" (4.1)	100 1000
RT50S9C2 RT50S9M4	50	1-3/8" (34.9)	6-1/2" (165.1)	.18" (4.6)	100 1000
RT50LL9C2 RT50LL9M4	50	4" (101.6)	15-1/2" (393.7)	.18" (4.6)	100 1000

Releasable ties listed above are natural. Black colored cable ties are also available in nearly every size. Insert a "0" instead of "9" in the part number. Example: T50R0C2 is a black T50R cable tie in a 100 pack. Other colors may be available. See color chart on page 10. Colored cable ties may be subject to minimums, custom terms, and lead times.



Releasable Ties

HellermannTyton Part No.	Min. Tensile Strength (lbs.)	Maximum Bundle Dia. In. (mm.)	Approx. Length In. (mm.)	Approx. Width In. (mm.)	Pkg. Qty.
REL50R9C2 REL50R9L4	50	1-3/8" (34.9)	5-1/2" (139.7)	.291" (7.39)	100 200
REL50L9C2 REL50L9L4	50	2.55" (64.77)	9.8" (248.92)	.291" (7.39)	100 200

Ties listed above are natural. Black and other colors also available. See color chart on page 10.

Pinch Releasable Ties

Patented pinch release mechanism for easy handling allows tie to be released using one hand.

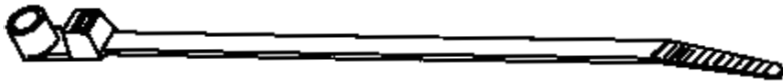


Pinch Releasable Ties

HellermannTyton Part No.	Material/ Color	Min. Tensile Strength (lbs.)	Maximum Bundle Dia. In. (mm.)	Approx. Length In. (mm.)	Approx. Width In. (mm.)	Pkg. Qty.
REZ200	Nylon 6/6, Black	50	2" (50)	7-7/8" (200)	.19" (4.8)	100
REZ300		50	3-1/8" (80)	11-7/8" (300)	.19" (4.8)	100

Screw Mount Ties

One-piece, all plastic ties for quick, simple cable mounting. Bundling and mounting are done with one unit.



U.S. Patent Numbers 3,127,648 - 3,486,201

Screw Mount Ties							
HellermannTyton Part No.	Mounting	Min. Tensile Strength (lbs.)	Maximum Bundle Dia. In. (mm.)	Approx. Length In. (mm.)	Approx. Width In. (mm.)	Pkg. Qty.	HellermannTyton Installation Tools
T18MR9C2 T18MR9M4	#4 screw	18	3/4" (19.0)	4-1/4" (107.9)	.10" (2.5)	100 1000	TWT1, MK3P, MK7, MK7P, MK9
T30MR9C2 T30MR9M4	#8 screw	30	1-1/4" (31.7)	6-1/4" (158.7)	.14" (3.6)	100 1000	
T50MR9C2 T50MR9M4	#10 screw	50	1-3/4" (44.4)	8-1/2" (215.9)	.18" (4.6)	100 1000	TWT1, MK3P, MK6PN, MK7, MK7P, MK9
T50MRT9C2 T50MRT9M4	#6-32 tap thru screw	50	1-3/4" (44.4)	8-1/2" (215.9)	.18" (4.6)	100 1000	
T50MIT9C2 T50MIT9M4	#10 screw	50	3" (76.2)	11-3/4" (298.5)	.18" (4.6)	100 1000	
T50ML9C2 T50ML9M4	#10 screw	50	4" (101.6)	16" (406.4)	.18" (4.6)	100 1000	
T120MR9K2 T120MR9H4	#1/4" screw	120	4" (101.6)	16-1/4" (412.7)	.30" (7.6)	50 500	TWT2, MK6PN, MK9

Ties listed above are natural. Black colored cable ties are also available in nearly every size. Insert a "0" instead of "9" in the part number. Other colors may be available. See color chart on page 10.

Push Mount Ties



Push Mount Ties								
HellermannTyton Part No.	Mounting Hole Dia. In. (mm.)	Max Panel Thickness In. (mm.)	Min. Tensile Strength (lbs.)	Maximum Bundle Dia. In. (mm.)	Approx. Length In. (mm.)	Approx. Width In. (mm.)	Pkg. Qty.	HellermannTyton Installation Tools
T30RSF9C2 T30RSF9M4	.250" (6.35) min. to .280" (7.11) max.	.093" (2.36)	30	1-1/4" (31.7)	6-1/2" (165.1)	.14" (3.6)	100 1000	TWT1, MK3P, MK7, MK7P, MK9
T50RSF9C2 T50RSF9M4	.187" (4.76) min. to .220" (5.56) max.	.140" (3.56)	50	1-3/4" (44.4)	8-1/2" (215.9)	.18" (4.6)	100 1000	

Ties listed above are natural. Black colored cable ties are also available in nearly every size. Insert a "0" instead of "9" in the part number. Other colors may be available. See color chart on page 10.

Wing Push Mount Ties

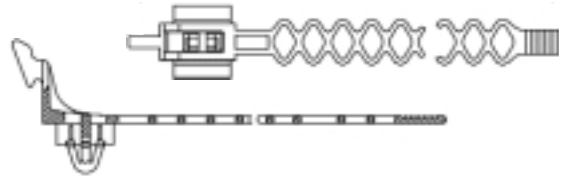


Wing Push Mount Ties								
HellermannTyton Part No.	Mounting Hole Dia. In. (mm.)	Panel Thickness In. (mm.)	Min. Tensile Strength (lbs.)	Maximum Bundle Dia. In. (mm.)	Approx. Length In. (mm.)	Approx. Width In. (mm.)	Pkg. Qty.	HellermannTyton Installation Tools
T18RWPM9C2 T18RWPM9M4	.187" (4.76) min. to .220" (5.56) max.	.060" (1.5) to .125" (3.2)	18	.875" (22.2)	4.5" (111.5)	.098" (2.5)	100 1000	TWT1, MK3P, MK7, MK7P, MK9
111-85469	.240" (6.1) min. to .256" (6.5) max.	.032" (.8) to .098" (2.5)	50	1.34" (34)	6.5" (165)	.181" (4.6)	1000	
T50SL7.NN6P	.240" (6.1) min. to .256" (6.5) max.	.032" (.8) to .118" (3.0)	50	1.97" (50)	8.03" (204)	.181" (4.6)	1000	

Ties listed above are natural. Black colored cable ties are also available in nearly every size. Insert a "0" instead of "9" in the part number. Other colors may be available. See color chart on page 10.

Ladder Style Push Mount Ties

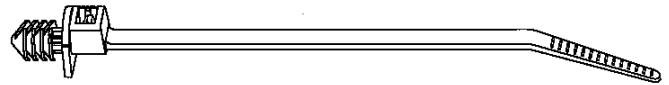
Unique ladder style design eliminates the need for various sizes of clamps. Wings on the side of the tie provide stabilization.



Ladder Style Push Mount Ties									
HellermannTyton Part No.	Material/Color	Mounting Hole Dia. In. (mm.)	Max Panel Thickness In. (mm.)	Min. Tensile Strength (lbs.)	Maximum Bundle Dia. In. (mm.)	Approx. Length In. (mm.)	Approx. Width In. (mm.)	Pkg. Qty.	HellermannTyton Installation Tools
FBS100	Nylon 6/6, Black	.250" (6.35)	.118" (3.0)	N/A	7/8" (23.0)	4-1/2" (114)	.40" (10.0)	500	N/A
FBS140		min. to .264" (6.7)	.118" (3.0)	N/A	1-1/2" (38.0)	6-1/4" (158)	.40" (10.0)	500	
FBS185		max.	.118" (3.0)	N/A	2" (50.0)	8" (201)	.40" (10.0)	500	

Fir Tree Push Mount Ties

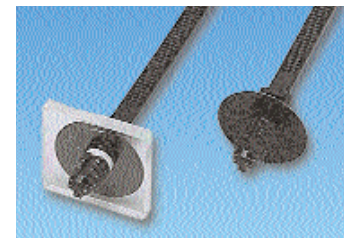
Fir tree design grips to the inside of a hole. Can be used on sheet metal, wood, and cast iron.



Fir Tree Push Mount Ties									
HellermannTyton Part No.	Material/Color	Mounting Hole Diameter In. (mm.)	Min. Tensile Strength (lbs.)	Maximum Bundle Dia. In. (mm.)	Approx. Length In. (mm.)	Approx. Width In. (mm.)	Pkg. Qty.	HellermannTyton Installation Tools	
T50RTM250HSM4	Nylon 6/6, Heat Stabilized, Black	.246" (6.25) min. to .276" (7.0) max.	50	2" (50.8)	8.39" (213.1)	.18" (4.6)	1000	TWT1, MK3P, MK6PN, MK7, MK7P, MK9	

Domed Fir Tree Mount Ties

Domed head tie provides a tight, rattle-free installation. The dome also acts as a seal to keep out dust and liquid.



Domed Fir Tree Mount Ties									
HellermannTyton Part No.	Material/Color	Mounting Hole Dia. In. (mm.)	Max Panel Thickness In. (mm.)	Min. Tensile Strength (lbs.)	Maximum Bundle Dia. In. (mm.)	Approx. Length In. (mm.)	Approx. Width In. (mm.)	Pkg. Qty.	HellermannTyton Installation Tools
T50SDP6	Nylon 6/6, Heat Stabilized, Black	1/4" (6.35)	.260" (6.5) min. to .276" (7.0) max.	50	1-1/4" (31)	6-1/2" (165)	.20" (5.0)	500	TWT1, MK3P, MK6PN, MK7, MK7P, MK9

Domed Push Mount Ties

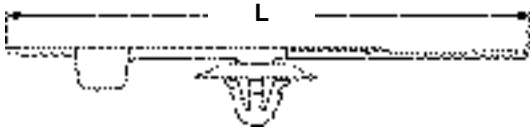
Domed head tie provides a tight, rattle-free installation.



Domed Push Mount Ties									
HellermannTyton Part No.	Material/Color	Mounting Hole Dia. In. (mm.)	Max Panel Thickness In. (mm.)	Min. Tensile Strength (lbs.)	Maximum Bundle Dia. In. (mm.)	Approx. Length In. (mm.)	Approx. Width In. (mm.)	Pkg. Qty.	HellermannTyton Installation Tools
T50SD6	Nylon 6/6, Heat Stabilized, Black	.25" (6.3) to .30" (7.5)	.070" (1.8)	50	1-1/4" (31)	6-1/4" (160)	.20" (5.0)	500	TWT1, MK3P, MK7, MK7P, MK9

Center Mount, Domed Push Mount Ties

Centers the mount on all bundle diameters. Mount is molded in a stationary position for easy assembly.

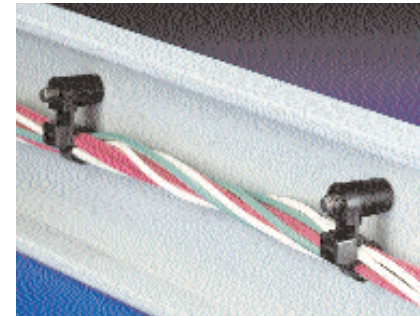
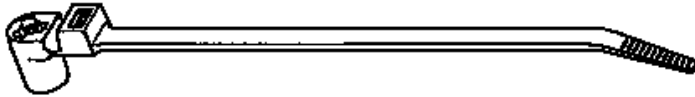


Center Mount, Domed Push Mount Ties

HellermannTyton Part No.	Material/Color	Mounting Hole Dia. In. (mm.)	Max Panel Thickness In. (mm.)	Min. Tensile Strength (lbs.)	Maximum Bundle Dia. In. (mm.)	Approx. Length In. (mm.)	Approx. Width In. (mm.)	Pkg. Qty.	HellermannTyton Installation Tools
T50RSP	Nylon 6/6, Heat Stabilized, Black	.24" (6.0) to .26" (6.5)	.05" (1.3)	50	1-3/4" (45.0)	7-1/2" (190)	.18" (4.7)	1000	N/A

Stud Mount Ties

The stud mount tie is a one-piece cable tie, made from black, high impact nylon 6/6. Bundling and mounting are accomplished with one unit. The stud mount tie is designed for use on the 1/4"-20 UNC thread of a stud or the exposed threads of a machine screw.

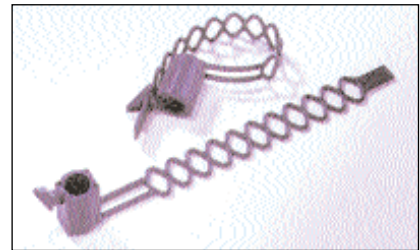


Stud Mount Ties

HellermannTyton Part No.	Material/Color	Recommended Stud Size	Min. Tensile Strength (lbs.)	Maximum Bundle Dia. In. (mm.)	Approx. Length In. (mm.)	Approx. Width In. (mm.)	Pkg. Qty.	HellermannTyton Installation Tools
T120RSM0HIRK2	Nylon 6/6, High Impact, Black	1/4" - 20 UNC	120	4" (101.6)	16" (406.4)	.30" (7.6)	50	TWT2, MK6PN, MK9

Ladder Style Stud Mount Ties

Ladder style tie mounts easily onto #10-24" (5 mm) stud. Unique latch allows for easy re-entry to bundles.



Ladder Style Stud Mount Ties

HellermannTyton Part No.	Material/Color	Recommended Stud Size In. (mm.)	Min. Tensile Strength (lbs.)	Maximum Bundle Dia. In. (mm.)	Approx. Length In. (mm.)	Approx. Width In. (mm.)	Pkg. Qty.	HellermannTyton Installation Tools
FBB100	Nylon 6/6, Black	#10-24" (5.0)	N/A	7/8" (23.0)	4.0" (100)	.40" (10.0)	500	N/A
FBB140				1-1/2" (38.0)	5-5/8" (142)	.40" (10.0)	500	
FBB185				2" (50.0)	7-1/4" (185)	.40" (10.0)	500	

Flexible Head Stud Mount Ties

Flexible head wraps around cable bundle for easy installation. Tie mounts onto #10-24" (5mm) stud.



Flexible Head Stud Mount Ties

HellermannTyton Part No.	Material/Color	Recommended Stud Size In. (mm.)	Min. Tensile Strength (lbs.)	Maximum Bundle Dia. In. (mm.)	Approx. Length In. (mm.)	Approx. Width In. (mm.)	Pkg. Qty.	HellermannTyton Installation Tools
T50RS5	Nylon 6/6, Black	#10-24" (5.0)	50	1-1/2" (40)	7-1/2" (190)	.18" (4.6)	100	N/A

Dual Clamp Ties

HellermannTyton's dual clamp ties are designed to provide parallel spacing between hoses, wires, cables and tubing, protecting them from abrasion. These ties have an optional mounting hole for securing bundles along the chassis of trucks, trailers, and automobiles. The unique, one-piece design features the dual head centered on the strap.



U.S. Patent Number 5,966,781

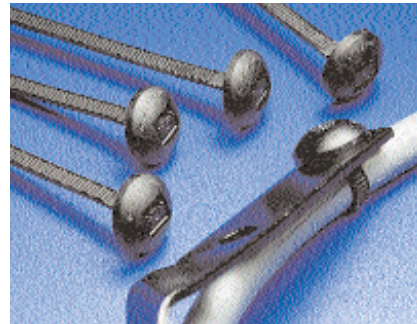
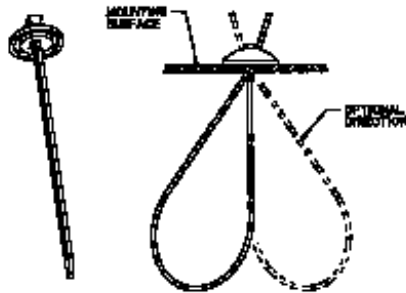
Dual Clamp Ties

HellermannTyton Part No.	Material/Color	Recommended Stud Size In. (mm.)	Min. Tensile Strength (lbs.)	Maximum Bundle Dia. In. (mm.)	Approx. Length In. (mm.)	Approx. Width In. (mm.)	Pkg. Qty.	HellermannTyton Installation Tools
DCT90HIRK2 DCT90HIRC2	Nylon 6/6, High Impact, Black	1/4" (6.35)	150	1.3" each side (33.02)	12.9" (327.66)	.50" (12.7)	50 100	MK9 or T250
DCT110HIRK2 DCT110HIRC2		1/4" (6.35)	150	2.3" each side (58.42)	19.2" (487.68)	.50" (12.7)	50 100	

Button Head Ties

Manufactured from black, high impact nylon 6/6, the button head tie is a two piece tie providing for parallel entry and exit through the head. The strap contains serrations on both sides and the head has two opposed pawls covered by a spherical dome top.

This design allows the strap to be directed clockwise or counter-clockwise prior to insertion into the head, enabling bi-directional looping.

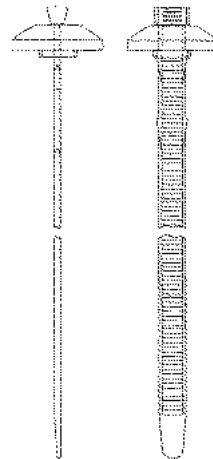


U.S. Patent Number 4,557,023

Button Head Ties							
HellermannTyton Part No.	Material/Color	Min. Tensile Strength (lbs.)	Maximum Bundle Dia. In. (mm.)	Approx. Length In. (mm.)	Approx. Width In. (mm.)	Pkg. Qty.	HellermannTyton Installation Tools
BT1000HIRK2	High Impact, Nylon 6/6, Black	100	2-5/8" (66.67)	9-5/8" (244.47)	.22" (5.58)	100	TWT2, T150, MK6PN, MK9
BT100L0HIRK2		100	4-5/16" (109.53)	15" (381.0)	.22" (5.58)	50	
BT120L0HIRK2		120	4-11/32" (110.49)	15" (381.0)	.30" (7.62)	50	
BT120R0HIRK2		120	2-29/32" (73.66)	10-1/2" (266.0)	.30" (7.62)	50	

Button Head Ties with Retainers

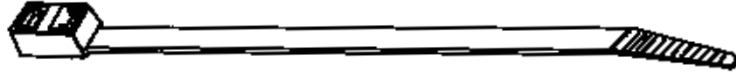
Similar to standard button head ties, these ties feature retainer arrows for use with HellermannTyton's MSBT120 saddle mounts (see page 48). However, these ties can also be used independently of the mounts. These button head ties are manufactured with a pilot bushing which, when used with the saddle mounts, prevents chafing of the tie. The saddle mount is snapped onto the tie, and the mount and tie assembly can be pre-installed onto a frame or panel.



Button Head Ties with Retainers							
HellermannTyton Part No.	Material/Color	Min. Tensile Strength (lbs.)	Maximum Bundle Dia. In. (mm.)	Approx. Length In. (mm.)	Approx. Width In. (mm.)	Pkg. Qty.	HellermannTyton Installation Tools
BT120LD0HIRK2	High Impact, Nylon 6/6, Black	120	4-5/16" (110.5)	15" (381.0)	.30" (7.6)	50	TWT2, T150, MK6PN, MK9
BT120LLD0HIRK2		120	5-7/8" (146.9)	20" (508.0)	.30" (7.6)	50	

Double Head Ties

Designed to harness two cables simultaneously. The second loop may also serve as a positioning device for a single cable.



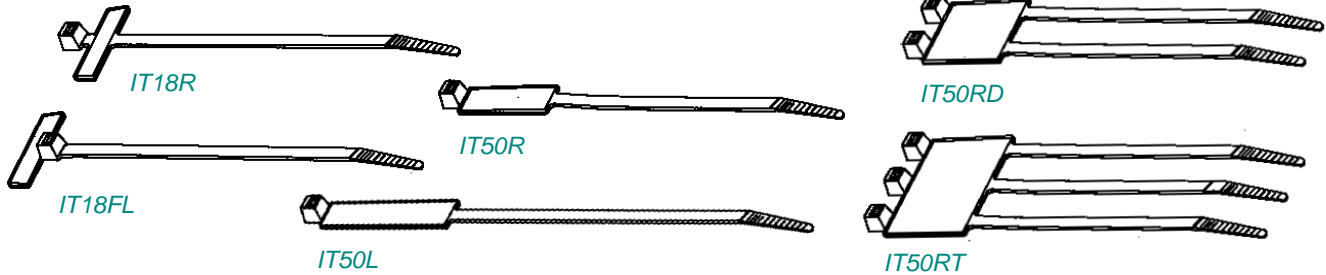
U.S. Patent Numbers 3,127,648 - 3,486,201

Double Head Ties						
HellermannTyton Part No.	Min. Tensile Strength (lbs.)	Maximum Bundle Diameter In. (mm.)	Approx. Length In. (mm.)	Approx. Width In. (mm.)	Pkg. Qty.	Hellermann Tyton Installation Tools
T50RDH9C2 T50RDH9M4	50 lbs. 1st loop 40 lbs. 2nd loop	Two loops up to 3/4" (19.0) diameter each	8-1/4" (209.5)	.18" (4.6)	100 1000	TWT1, MK3P, MK6PN, MK7, MK7P, MK9
T50IDH9C2 T50IDH9M4	50 lbs. 1st loop 40 lbs. 2nd loop	Two loops up to 1-1/2" (38.1) diameter each	12" (304.8)	.18" (4.6)	100 1000	
T50LDH9C2 T50LDH9M4	50 lbs. 1st loop 40 lbs. 2nd loop	Two loops up to 2" (50.8) diameter each	15-1/2" (393.7)	.18" (4.6)	100 1000	

Ties listed above are natural. Black colored cable ties are also available in nearly every size. Insert a "0" instead of "9" in the part number. Example: T50R0C2 is a black T50R cable tie in a 100 pack. Other colors may be available. See color chart on page 10. Colored cable ties may be subject to minimums, custom terms, and lead times.

Identification Ties

Tie and identify bundles of cable in one operation. Large flat area for imprinting or writing the required information. Hot stamping available, which is subject to minimums and lead times.



Identification Ties								
HellermannTyton Part No.	Gov. Designation	Min. Tensile Strength (lbs.)	Maximum Bundle Dia. In. (mm.)	Approx. Length In. (mm.)	Approx. Width In. (mm.)	Marking Pad Size In. (mm.)	Pkg. Qty.	Hellermann Tyton Installation Tools
IT18R9C2* IT18R9L4*	MS3368-5-E	18	3/4" (19.0)	4" (101.6)	.10" (2.5)	1" x 19/64" (25.4 x 7.5)	100 200	TWT1, MK3P, MK7, MK7P, MK9
IT18FL9C2 IT18FL9L4		18	3/4" (19.0)	4-1/4" (107.9)	.10" (2.5)	13/16" x 5/16" (20.5 x 7.9)	100 200	
IT50R9C2* IT50R9M4*	MS3368-1-A	50	1-3/4" (44.4)	8" (203.2)	.18" (4.6)	1" x 7/16" (25.4 x 11.1)	100 1000	TWT1, MK3P, MK6PN, MK7, MK7P, MK9
IT50RD9K2*	MS3368-3-C	50	1-3/4" (44.4)	8" (203.2)	.18" (4.6)	1-11/16" x 5/16" (29.8 x 23.8)	50	
IT50RT9K2*	MS3368-4-D	50	1-3/4" (44.4)	8" (203.2)	.18" (4.6)	1-13/16" x 5/16" (46.0 x 23.8)	50	
IT50L9C2* IT50L9M4*	MS3368-2-A	50	4" (101.6)	15" (381.1)	.18" (4.6)	1/2" x 2-1/8" (12.7 x 54.0)	100 1000	

Ties listed above are natural. Black colored cable ties are also available in nearly every size. Insert a "0" instead of "9" in the part number. Example: T50R0C2 is a black T50R cable tie in a 100 pack. Other colors may be available. See color chart on page 10. Colored cable ties may be subject to minimums, custom terms, and lead times.

*AS 23190E (formerly Mil-S-23190E) (Type I Class 1)

Tamper Evident Ties

Designed to deter theft, HellermannTyton's tamper evident tie is a fastening device used to secure merchandise. It is ideal for securing tote boxes, drums, and other containers. Once fastened, the tie cannot be picked opened and reused. It must be destroyed to be removed, providing clear evidence of tampering.

The tamper evident tie is offered in bright yellow for easy identification and also contains 8 hot stamped numbers for tracking and record keeping.



Tamper Evident Ties

Hellermann Tyton Part No.	Color	Min. Tensile Strength (lbs.)	Maximum Bundle Dia. In. (mm.)	Approx. Length In. (mm.)	Approx. Width In. (mm.)	Numbering	Pkg. Qty.
SEAL1R4PPF4	Yellow	30	1"	6.641" (168.55)	.127" (3.22)	Unduplicated Random	250
SEAL1S4PPF4*	Yellow	30	1"	6.641" (168.55)	.127" (3.22)	Sequential	250
SEAL2R4PPF4	Yellow	30	2"	9.516" (241.52)	.127" (3.22)	Unduplicated Random	250
SEAL2S4PPF4*	Yellow	30	2"	9.516" (241.52)	.127" (3.22)	Sequential	250

*Other colors and sequentially numbered ties available with minimums and lead times.

Striped Ties

In addition to standard colors, HellermannTyton also offers T18R (4"-18 lb.) striped ties. Primarily designed for the telecommunications market, they are provided in two convenient packages: **PicPac** and **PocketPac**.



PocketPac



PicPac

Striped Ties	
HellermannTyton Part No.	Description
T18RPICPAC	Total of 1,300 cable ties 1,200 striped cable ties - 50 each of 24 color combinations 100 solid color cable ties - 50 each of red and black Dimensions - 12" (W) x 36" (H)
T18RPOCKETPA C	Total of 50 cable ties 10 each of blue, orange, green, brown, and slate, all with white stripes Dimensions - 4-1/2" (W) x 3-3/8" (H)

Striped ties are available for refill. Contact HellermannTyton for more information.

Halar® Ties

Halar cable ties meet NEC regulations and can be used in applications where low smoke and low flame are a concern, as in air handling spaces. The raw material used to manufacture HellermannTyton halar cable ties is UL 94V-0 rated. These ties come in a distinct color of red for easy identification.



Many city codes require specific cable ties to be used for air handling spaces. HellermannTyton halar ties generate low smoke when burned and come in the standard color red for easy identification.

Halar Ties							
Hellermann Tyton Part No.	Color	Min. Tensile Strength (lbs.)	Maximum Bundle Dia. In. (mm.)	Approx. Length In. (mm.)	Approx Width In. (mm.)	Pkg. Qty.	HellermannTyton Installation Tools
T18R2HALC2 T18R2HALM4	Red	18	7/8" (22.2)	4" (101.6)	.10" (2.5)	100 1000	TWT1, MK3P, MK7, MK7P, MK9
T30M2HALC2 T30M2HALM4	Red	30	2" (50.8)	8" (203.2)	.14" (3.6)	100 1000	
T50R2HALC2 T50R2HALM4	Red	50	1-3/4" (44.5)	8" (203.2)	.18" (4.6)	100 1000	TWT1, MK3P, MK6PN, MK7, MK7P, MK9
T120R2HALK2 T120R2HALH4	Red	120	4" (101.6)	15-1/4" (387.4)	.18" (4.6)	50 500	TWT2, MK6PN, MK9

See page 27 for information on UL94V-2 flame rated, hook and loop Grip Ties – also used in air handling spaces.

Note: Halar ties are also available in natural color. Contact HellermannTyton for availability.
Halar is a registered trademark of Ausimont Chemical Co.

Tefzel® Ties

Tefzel ties provide excellent protection against radiation, ultraviolet light, and a wide range of chemicals. It is also rated for low outgassing applications. HellermannTyton's tefzel ties offer temperature stability to 302°F (150°C) and come in a standard color of blue for easy identification.

Tefzel Ties							
Hellermann Tyton Part No.	Color	Min. Tensile Strength (lbs.)	Maximum Bundle Dia. In. (mm.)	Approx. Length In. (mm.)	Approx Width In. (mm.)	Pkg. Qty.	HellermannTyton Installation Tools
T18R6TZC2 T18R6TZM4	Blue	18	7/8" (22.2)	4" (101.6)	.10" (2.5)	100 1000	TWT1, MK3P, MK7, MK7P, MK9
T30M6TZC2 T30M6TZM4	Blue	30	2" (50.8)	8" (203.2)	.14" (3.6)	100 1000	
T50R6TZC2 T50R6TZM4	Blue	50	1-3/4" (44.5)	8" (203.2)	.18" (4.6)	100 1000	TWT1, MK3P, MK6PN, MK7, MK7P, MK9
T50L6TZC2 T50L6TZM4	Blue	50	4" (101.6)	15-1/2" (393.7)	.18" (4.6)	100 1000	

Tefzel is a registered trademark of E.I. DuPont Corporation.

Parallel Entry Ties

The parallel entry tie features a very low profile head, which enables the installed tie to lie flat on the bundle. Its sleek design enhances safety and fulfills the requirements of many diverse applications. The parallel entry tie features outside serrations to allow the smooth side of the tie to rest on a bundle, reducing any potential of wear due to abrasion from vibrations or movement.

The parallel entry tie also offers an optional custom designed feature for foam applications, such as playground equipment. With child safety in mind, the patented retainer bumps on the strap allow the tie to grip into foam padded equipment eliminating slippage. The retainers also contain the tail of the tie eliminating the need to cut any excess material. This feature eliminates the potential for any sharp edges. Only a smooth surface is evident. The "PER" designation in the part number indicates the retainer feature.



Retainer (PER) Version



Retainer



No Retainer

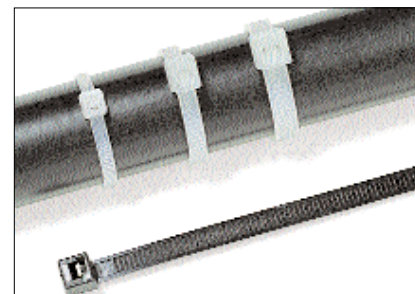
Parallel Entry Ties

HellermannTyton Part No. *	Description	Material/Color	Min. Tensile Strength (lbs.)	Maximum Bundle Dia. In. (mm.)	Approx. Length In. (mm.)	Approx. Width In. (mm.)	Pkg. Qty.	HellermannTyton Installation Tools
PE130R_UVC2	No Retainer	Nylon 6/6, UV	130	4.875" (123.83)	16.25" (412.75)	.358" (9.09)	100	TWT2, T150, T250, MK6PN, MK9
PER130R_UVC2	Retainer	Nylon 6/6, UV	130	4.875" (123.83)	16.25" (412.75)	.358" (9.09)	100	
PE130I_UVC2	No Retainer	Nylon 6/6, UV	130	6.25" (158.75)	21" (533.40)	.358" (9.09)	100	

* Part number does not designate color. Many unique colors which match manufacturers' playground equipment foam are available. Contact HellermannTyton for more information.

Outside Serrated Ties

Developed for specific applications where thin walled or soft insulation is used (such as in aircraft, trains etc.) and for applications that are very sensitive to the amount of force applied to the cable (telecommunications etc.). The outside serrated cable ties offer a wide variety of tensile strength options.



Outside Serrated Ties

Hellermann Tyton Part No.*	Material/Color	Min. Tensile Strength (lbs.)	Maximum Bundle Dia. In. (mm.)	Approx. Length In. (mm.)	Approx. Width In. (mm.)	Pkg. Qty.	Hellermann Tyton Installation Tools
LK0XHS	Heat Stabilized, Nylon 6/6, Black	18	5/8" (16)	4" (100)	.09" (2.3)	200	TWT1, MK3P, MK7, MK7P, MK9
LK0BHS		30	1-3/4" (45)	7-7/8" (200)	.14" (3.5)	100	
LK2CHS		50	2" (50)	7-7/8" (200)	.18" (4.6)	100	
LK2MHS		50	2" (50)	10-1/4" (260)	.18" (4.6)	100	
LK4HS		120	4-1/4" (108)	15-3/4" (390)	.30" (7.6)	100	TWT2, MK6PN, MK9

* Other colors available. Subject to minimums, custom terms, and lead times. Contact HellermannTyton for more information.

Clamp Ties

The clamp tie has triangular shaped tabs extending beneath the head, allowing for optimal surface contact and complete circumferential compression to 360 degrees. The clamps are recommended for soft rubber hose applications, as well as for fuel, water, and air vacuum lines. Clamp ties are manufactured in natural and heat stabilized, high impact, black nylon 6/6.



Clamp Ties						
Hellermann Tyton Part No.	Min. Tensile Strength (lbs.)	Maximum Bundle Dia. In. (mm.)	Approx. Length In. (mm.)	Approx. Width In. (mm.)	Pkg. Qty.	Hellermann Tyton Installation Tools
CTT20R9C2 CTT20R9M4	20	7/8" (22.2)	4" (101.6)	.09" (2.2)	100 1000	TWT1, MK3P, MK7, MK7P, MK9
CTT60R9C2 CTT60R9M4	60	1-3/4" (44.4)	8" (203.2)	.18" (4.6)	100 1000	TWT1, MK3P, MK6PN, MK7, MK7P, MK9
CTT60L9C2 CTT60L9M4	60	4" (101.6)	15" (381.0)	.18" (4.6)	100 1000	

Ties listed above are natural. Contact HellermannTyton for heat stabilized, high impact, black nylon 6/6 information.

Kabelrap Bundling System

- Very high bundling strength
- Particularly resistant to salt water, oils, greases, and hydraulic fluids
- Material - Weather resistant, nylon 6/6, black
- Special, **required** hand tool shown upper right Part No. 121-00680



Required Tool –
121-00680



Kabelrap
Application



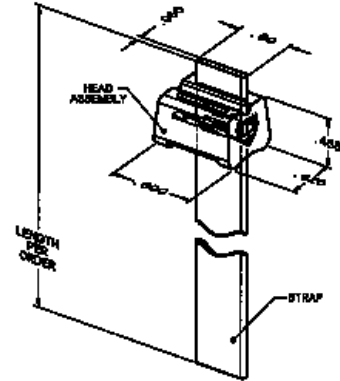
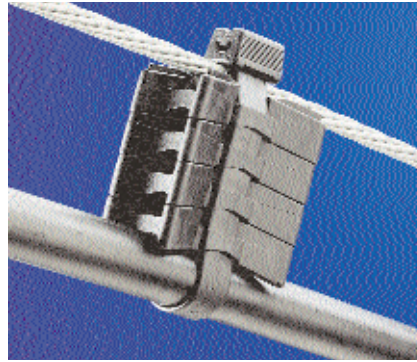
Kablerap Bundling System							
HellermannTyton Part No.	Material/ Color	Min. Tensile Strength (lbs.)	Maximum Bundle Dia. In. (mm.)	Approx. Length In. (mm.)	Approx. Width In. (mm.)	Pkg. Qty.	Required Installation Tool
121-61860	Weather Resistant, Nylon 6/6, Black	110	1-1/2" (39)	7-1/4" (183)	.24" (6.0)	50	121-00680
121-63560		110	3-3/4" (93)	14" (356)	.25" (6.4)	50	
121-82160		175	1-3/4" (47)	8-1/4" (210)	.31" (8.0)	50	
121-83360		175	3-3/8" (86)	13-1/4" (337)	.31" (8.0)	50	

EI-Ty (Extended Length Ties)

HellermannTyton's EI-Ty is a high strength strapping system used for supporting, securing, fastening, and spacing cable, as well as a variety of other applications requiring extra-long, extremely durable strapping.

The EI-Ty consists of a smooth strap and a separate, compact plastic head which encloses a stainless steel gripper. The stackable spacer works with the EI-Ty for a versatile, easy to install spacing system. It has a minimum loop tensile strength of 250 pounds and has a continuous operating temperature range of -40°F to 185°F (-40°C to 85°C). The EI-Ty complies with Bellcore Specification Reference TR-TSY-00789.

The EI-Ty strap and head are manufactured from black, acetal homopolymer with excellent dielectric properties, UV and chemical resistance, with a UL94-HB flame rating. It has been tested for excellent weatherability against moisture, sunlight, and other environmental conditions.



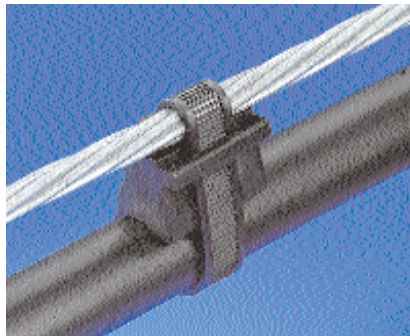
U.S. Patent Numbers 4,993,669 and 5,102,075

EI-Ty				
Hellermann Tyton Part No.	Description	Pkg. Qty.	Hellermann Tyton Installation Tools	
TELS-1	50 ft. of strap on reel dispenser and 30 heads	1 kit	MK9 or T250	
TELS-H	25 double entry, double locking heads	25 heads		
TELS-13	10 - 13.5 inches of cable strap with 10 double locking heads	10 straps/heads		
TELS-27	10 - 27 inches of cable strap with 10 double locking heads	10 straps/heads		
TELS-5K	Kit of 5 reels and 150 heads. Each reel dispenser contains 50 ft.	1 kit		
TELS-10K	Kit of 10 reels and 300 heads. Each reel dispenser contains 50 ft.	1 kit		
TELS-SPK2	Spacer designed for use with the EI-Ty	50 pcs.		
TELS-SPOOL	50 ft. of strap on reel	1 reel		

Aerial Support Spacer Ties

Aerial support spacer ties are one-piece ties designed for standard spacing applications. These ties are pre-grouped in handy multiples of 5 to save installation time.

The strap is molded from special high impact nylon 6/6. The spacers are made from a high density outdoor black polypropylene. Both materials in this one piece tie offer resistance to sunlight, saltwater, and harsh chemical environments.



Aerial Support Spacer Ties						
Hellermann Tyton Part No.	Min. Tensile Strength (lbs.)	Approx. Length In. (mm.)	Approx. Width In. (mm.)	Max. Bundle Diameter In. (mm.)	Std. Pkg. Qty.	HellermannTyton Installation Tools
TAS100RWS	100	7.5" (190.5)	.50" (12.7)	1.75" (44.4)	100	MK9 or T250
TAS100MWS	100	10.0" (254)	.50" (12.7)	2.75" (69.9)	100	
TAS100LWS	100	16.0" (406.4)	.50" (12.7)	4.50" (114.3)	100	

Grip Ties

The Grip Tie is a low profile, one piece fastening device. Constructed of polyethylene hook and nylon loop material, laminated back to back, the Grip Tie features quick release for repetitive access to cable and wire. It can be opened and closed numerous times without failure. The Grip Tie is reusable, adjustable, releasable, and easy to install. Its design provides ease of installation in tight areas such as telecommunications closets and will not get caught on other cables. The tie also will not cause damage to Category 5 plus or fiber optic cable since it cannot be overcinched.

Available in a large color variety as well as different sizes including 6", 8", 11", and 15", the Grip Tie is versatile enough for applications ranging from network installations to bundling power cords. An assortment pack containing the four different sizes and six different colors is also available. For custom-cut lengths, the hook and loop strap also comes on a five yard roll. With a minimum purchase quantity, Grip Ties can be customized with an imprint indicating a company name.



Grip Tie Rolls

For custom cut lengths, HellermannTyton offers Grip Ties on a 5 yard or 25 yard roll. Ideal for job site applications, desired lengths can be cut on the spot.

Grip Tie Rolls				
HellermannTyton Part No.	Color	Length In. (mm.)	Width In. (mm.)	Pkg. Qty.
GT.75X1800	Black	180"(4,572.0)	0.75"(19.0)	1 roll
GT.75X1802	Red	180"(4,572.0)	0.75"(19.0)	1 roll
GT.75X1803	Orange	180"(4,572.0)	0.75"(19.0)	1 roll
GT.75X1804	Yellow	180"(4,572.0)	0.75"(19.0)	1 roll
GT.75X1805	Green	180"(4,572.0)	0.75"(19.0)	1 roll
GT.75X1806	Blue	180"(4,572.0)	0.75"(19.0)	1 roll
GT.75X9000	Black	900"(22,860.0)	0.75"(19.0)	1 roll

Grip Tie Assortment Pack

For a variety of Grip Ties, an assortment pack containing 4 different sizes and 6 different colors is available.

Grip Tie Assortment Pack	
HellermannTyton Part No.	Contents
GTASST	One (1) Orange 6" Grip Tie (GT.50X63) One (1) Yellow 6" Grip Tie (GT.50X64) One (1) Blue 8" Grip Tie (GT.50X86) One (1) Black 8" Grip Tie (GT.50X80) One (1) Green 11" Grip Tie (GT.50X115) One (1) Red 15" Grip Tie (GT.75X152)

Turn page for more Grip Tie information.

Grip Tie Part Numbers

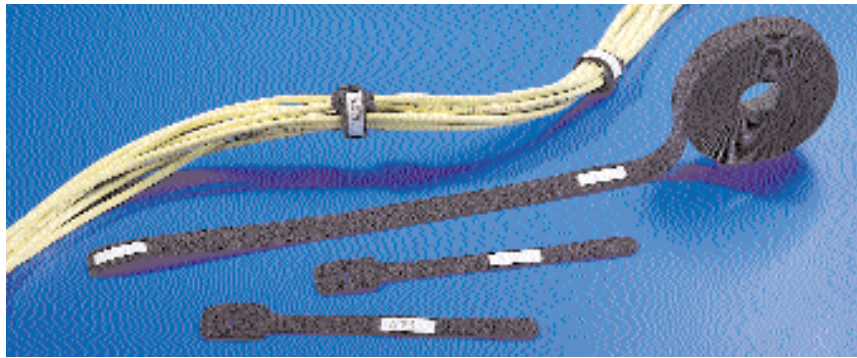


Hook and loop material Grip Ties prevent over-cinching of cables and come in many colors and styles – including write-on and flame rated versions.

Grip Ties								
HellermannTyton Part No.	Color	Bundle Diameter	Tensile Strength	Length (L)	Width (W)	Head Length (A)	Head Width (B)	Pkg. Qty.
6" Straps								
GT.375X60C2	Black	1"	42 lbs.	6"	.375"	1.5"	.75"	100
GT.50X60P2	Black	1"	45 lbs.	6"	0.5"	1.5"	1"	10
GT.50X60C2	Black	1"	45 lbs.	6"	0.5"	1.5"	1"	100
GT.50X62P2	Red	1"	45 lbs.	6"	0.5"	1.5"	1"	10
GT.50X62C2	Red	1"	45 lbs.	6"	0.5"	1.5"	1"	100
GT.50X63P2	Orange	1"	45 lbs.	6"	0.5"	1.5"	1"	10
GT.50X63C2	Orange	1"	45 lbs.	6"	0.5"	1.5"	1"	100
GT.50X64P2	Yellow	1"	45 lbs.	6"	0.5"	1.5"	1"	10
GT.50X64C2	Yellow	1"	45 lbs.	6"	0.5"	1.5"	1"	100
GT.50X65P2	Green	1"	45 lbs.	6"	0.5"	1.5"	1"	10
GT.50X65C2	Green	1"	45 lbs.	6"	0.5"	1.5"	1"	100
GT.50X66P2	Blue	1"	45 lbs.	6"	0.5"	1.5"	1"	10
GT.50X66C2	Blue	1"	45 lbs.	6"	0.5"	1.5"	1"	100
8" Straps								
GT.50X80P2	Black	1.75"	50 lbs.	8"	0.5"	1.5"	1"	10
GT.50X80C2	Black	1.75"	50 lbs.	8"	0.5"	1.5"	1"	100
GT.50X82P2	Red	1.75"	50 lbs.	8"	0.5"	1.5"	1"	10
GT.50X82C2	Red	1.75"	50 lbs.	8"	0.5"	1.5"	1"	100
GT.50X83P2	Orange	1.75"	50 lbs.	8"	0.5"	1.5"	1"	10
GT.50X83C2	Orange	1.75"	50 lbs.	8"	0.5"	1.5"	1"	100
GT.50X84P2	Yellow	1.75"	50 lbs.	8"	0.5"	1.5"	1"	10
GT.50X84C2	Yellow	1.75"	50 lbs.	8"	0.5"	1.5"	1"	100
GT.50X85P2	Green	1.75"	50 lbs.	8"	0.5"	1.5"	1"	10
GT.50X85C2	Green	1.75"	50 lbs.	8"	0.5"	1.5"	1"	100
GT.50X86P2	Blue	1.75"	50 lbs.	8"	0.5"	1.5"	1"	10
GT.50X86C2	Blue	1.75"	50 lbs.	8"	0.5"	1.5"	1"	100
11" Straps								
GT.50X110P2	Black	2.63"	55 lbs.	11"	0.5"	1.5"	1"	10
GT.50X110C2	Black	2.63"	55 lbs.	11"	0.5"	1.5"	1"	100
GT.50X112P2	Red	2.63"	55 lbs.	11"	0.5"	1.5"	1"	10
GT.50X112C2	Red	2.63"	55 lbs.	11"	0.5"	1.5"	1"	100
GT.50X113P2	Orange	2.63"	55 lbs.	11"	0.5"	1.5"	1"	10
GT.50X113C2	Orange	2.63"	55 lbs.	11"	0.5"	1.5"	1"	100
GT.50X114P2	Yellow	2.63"	55 lbs.	11"	0.5"	1.5"	1"	10
GT.50X114C2	Yellow	2.63"	55 lbs.	11"	0.5"	1.5"	1"	100
GT.50X115P2	Green	2.63"	55 lbs.	11"	0.5"	1.5"	1"	10
GT.50X115C2	Green	2.63"	55 lbs.	11"	0.5"	1.5"	1"	100
GT.50X116P2	Blue	2.63"	55 lbs.	11"	0.5"	1.5"	1"	10
GT.50X116C2	Blue	2.63"	55 lbs.	11"	0.5"	1.5"	1"	100
15" Straps								
GT.75X150P2	Black	3.88"	60 lbs.	15"	0.75"	2.5"	1.5"	10
GT.75X150C2	Black	3.88"	60 lbs.	15"	0.75"	2.5"	1.5"	100
GT.75X152P2	Red	3.88"	60 lbs.	15"	0.75"	2.5"	1.5"	10
GT.75X152C2	Red	3.88"	60 lbs.	15"	0.75"	2.5"	1.5"	100
GT.75X153P2	Orange	3.88"	60 lbs.	15"	0.75"	2.5"	1.5"	10
GT.75X153C2	Orange	3.88"	60 lbs.	15"	0.75"	2.5"	1.5"	100
GT.75X154P2	Yellow	3.88"	60 lbs.	15"	0.75"	2.5"	1.5"	10
GT.75X154C2	Yellow	3.88"	60 lbs.	15"	0.75"	2.5"	1.5"	100
GT.75X155P2	Green	3.88"	60 lbs.	15"	0.75"	2.5"	1.5"	10
GT.75X155C2	Green	3.88"	60 lbs.	15"	0.75"	2.5"	1.5"	100
GT.75X156P2	Blue	3.88"	60 lbs.	15"	0.75"	2.5"	1.5"	10
GT.75X156C2	Blue	3.88"	60 lbs.	15"	0.75"	2.5"	1.5"	100

Write-on Grip Ties

In situations where instant identification is needed, HellermannTyton provides Grip Ties with a white, write-on area. This smudge-free surface is ideal for fast and easy identification with a ballpoint pen or felt-tip marker. The write-on area is approximately 3/8" (H) X 1-1/4" (W). It is positioned in the center of the black 6", 8" and 11" straps, as well as spaced every 12" on the Grip Tie rolls.



Write-on Grip Ties

Hellermann Tyton Part No.	Description	Length In. (mm.)	Width In. (mm.)	Pkg. Qty.
GT.50X60P2W	Black Grip Tie with White Write-On Area	6" (152.4)	0.5"(12.7)	10
GT.50X60C2W	Black Grip Tie with White Write-On Area	6" (152.4)	0.5"(12.7)	100
GT.50X80P2W	Black Grip Tie with White Write-On Area	8" (203.2)	0.5"(12.7)	10
GT.50X80C2W	Black Grip Tie with White Write-On Area	8"(203.2)	0.5"(12.7)	100
GT.50X110P2W	Black Grip Tie with White Write-On Area	11"(279.4)	0.5"(12.7)	10
GT.50X110C2W	Black Grip Tie with White Write-On Area	11"(279.4)	0.5"(12.7)	100
GT.75X1800W	Black Grip Tie Roll with White Write-On Area	180" (4572.0)	0.75"(19.0)	1 Roll

Grip Ties for Air Handling Spaces

HellermannTyton now introduces UL94V-2 flame rated Grip Ties for use in air handling spaces. Available only in black, these Grip Ties are UL Listed in accordance with the National Electrical Code regulations. They are available in four lengths as well as a 180" roll. These black Grip Ties are also marked with a red block to designate use for air handling spaces.

Grip Ties for Air Handling Spaces

Hellermann Tyton Part No.	Color	Bundle Dia. In. (mm.)	Tensile Strength (lbs.)	Length In. (mm.)	Width In. (mm.)	Pkg. Qty.
GT.50X60P2V2	Black	1" (25.4)	45	6" (152.4)	0.5"(12.7)	10
GT.50X80P2V2	Black	1.75" (44.5)	50	8" (203.2)	0.5"(12.7)	10
GT.50X110P2V2	Black	2.63" (66.8)	55	11"(279.4)	0.5"(12.7)	10
GT.75X150P2V2	Black	3.88" (98.6)	60	15" (381.0)	0.75"(19.70)	10
GT.75X1800V2	Black	N/A (roll)	N/A	180"(4,572.0)	0.75"(19.0)	1 Roll

Grip Tie Mounts

To secure bundles to flat surfaces, HellermannTyton offers mounting bases to be used with Grip Ties. Available with or without adhesive, two sizes of mounts accommodate every size of Grip Tie. Mounts are manufactured from nylon 6/6 material and are UV stabilized for outdoor applications.



Grip Tie Mounts

Hellermann Tyton Part No.	Color	Width x Length In. (mm.)	Mount Method	Used with GT	Pkg. Qty.
GTM500C2	Black	1" x 2.5" (25.4 x 63.5)	1/4" screw	GT.50x6, GT.50x8, GT.50x11	100
GTM50A0C2	Black	1" x 2.5" (25.4 x 63.5)	Adhesive		
GTM1000C2	Black	1.5" x 3.25" (38.1 x 82.55)	1/4" screw	GT.75x15, GT Rolls	100
GTM100A0C2	Black	1.5" x 3.25" (38.1 x 82.55)	Adhesive		

Stainless Steel Ties

HellermannTyton's stainless steel ties are designed to secure hoses, cables, poles, pipes, and more when harsh environmental conditions may adversely affect the bundling application. Used where corrosion, vibration, weathering, radiation, and temperature extremes are a concern, HellermannTyton's stainless steel ties can be used in virtually any indoor, outdoor, and underground application.

Common applications for stainless steel ties include those in:

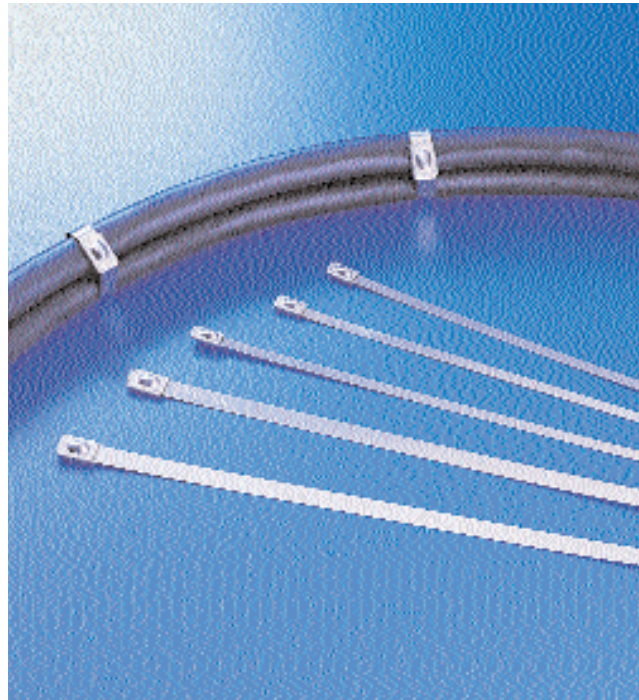
- Transportation
- Utilities
- Construction
- Energy Exploration
- Defense
- Food Processing
- Communications
- Agriculture
- Ship Building
- Off Shore Rigs
- Power Generating Plants

Stainless Steel Tie Features

- Smooth, rounded edges help ensure safe, efficient handling.
- Low profile enclosed bearing head with fully adjustable strap accommodates many bundle diameters per size.
- Available in 10 sizes in 304 steel and 11 sizes in 316 steel.
- Sizes feature tensile unlocking strengths of 100 lbs. and 250 lbs. for 304 steel and 150 lbs. and 250 lbs. for 316 steel.
- Ergonomically designed installation tool consistently tensions and cuts off ties leaving flush edges.
- Temperature range for materials 304 and 316: -112°F (-80°C) to 1000°F (538°C). Can be used in environments that are subjected to extremes of temperature.
- Flame retardant and non-toxic for applications where safety from fire is critical.
- A complete stainless steel marking system is also available.

Stainless Steel Ties (304 Material)

Grade 304 material is commonly used for stainless steel bundling applications and suits most general purpose requirements. It features the ability to withstand most environmental conditions, particularly in applications where vibration, general weathering, radiation and temperature extremes are a concern. This tie is designed with a low profile clamping bearing head.



Features

304 Steel:

Self locking, ball bearing mechanism:

Fully enclosed head:

High tensile strength option:

Benefits

Suits most general purpose applications and withstands most environmental conditions.

Quick and easy installation, either by hand or by tensioning tool

Does not allow dirt or grit to interfere with locking mechanism

Added strength and safety on heavy duty applications

Stainless Steel Ties 304 Material

HellermannTyton Part No.	Cross Reference to Former HellermannTyton Part No.	Material	Min. Tensile Strength (lbs.)	Maximum Bundle Dia. In. (mm.)	Approx. Length In. (mm.)	Head Width In. (mm.)	Strap Width In. (mm.)	Pkg. Qty.	HellermannTyton Installation Tool
MBT5S-S	None	304 Steel	150	1" (25.4)	5.0" (127)	.18" (4.6)	.26" (6.5)	100	MK9SST
MBT8S-S	SST100S-304C2	304 Steel	150	2" (50.8)	7.9" (201)	.18" (4.6)	.26" (6.5)	100	MK9SST
MBT14S-S	SST100R-304C2	304 Steel	150	4" (102)	14.3" (363)	.18" (4.6)	.26" (6.5)	100	MK9SST
MBT20S-S	SST100M-304C2	304 Steel	150	6" (152)	20.5" (521)	.18" (4.6)	.26" (6.5)	100	MK9SST
MBT27S-S	SST100L-304C2	304 Steel	150	8" (203)	26.8" (681)	.18" (4.6)	.26" (6.5)	100	MK9SST
MBT33S-S	None	304 Steel	150	10" (254)	33.0" (201)	.18" (4.6)	.26" (6.5)	100	MK9SST
MBT8H-S	SST250S-304K2	304 Steel	250	2" (50.8)	7.9" (201)	.31" (7.9)	.39" (9.8)	50	MK9SST
MBT14H-S	SST250R-304K2	304 Steel	250	4" (102)	14.3" (362)	.31" (7.9)	.39" (9.8)	50	MK9SST
MBT20H-S	SST250M-304K2	304 Steel	250	6" (152)	20.5" (521)	.31" (7.9)	.39" (9.8)	50	MK9SST
MBT27H-S	SST250I-304K2	304 Steel	250	8" (203)	26.8" (681)	.31" (7.9)	.39" (9.8)	50	MK9SST
MBT33H-S	SST250L-304K2	304 Steel	250	10" (254)	33" (838)	.31" (7.9)	.39" (9.8)	50	MK9SST

HellermannTyton's stainless steel ties and materials should be tested thoroughly under end use conditions to determine suitability for the application.

Stainless Steel Ties (316 Material)

Grade 316 material is highly resistant to corrosion and widely used in marine environments where chemicals, salts, acids, and temperature extremes may affect the bundling application. The tie is designed with a low profile, enclosed bearing head.

Features

316 Steel:

Self locking, ball bearing mechanism:

Fully enclosed head:

High tensile strength option:

Benefits

Marine grade for more corrosive applications

Quick and easy installation, either by hand or by tensioning tool

Does not allow dirt or grit to interfere with locking mechanism

Added strength and safety on heavy duty applications



MK9SST Tool (See page 32 for details).

Stainless Steel Ties 316 Material

Hellermann Tyton Part No.	Material (lbs.)	Tensile Strength (lbs.)	Maximum Bundle Dia. In. (mm.)	Approx. Length In. (mm.)	Strap Width In. (mm.)	Head Width In. (mm.)	Pkg. Qty.	HellermannTyton Installation Tool
MBT5S	316 Steel	150	1.0" (25.4)	5.0" (127)	0.18" (4.6)	.26" (6.6)	100	MK9SST
MBT8S	316 Steel	150	2.0" (50.8)	7.9" (201)	0.18" (4.6)	.26" (6.6)	100	MK9SST
MBT14S	316 Steel	150	4.0" (102)	14.3" (360)	0.18" (4.6)	.26" (6.6)	100	MK9SST
MBT20S	316 Steel	150	6.0" (152)	20.5" (520)	0.18" (4.6)	.26" (6.6)	100	MK9SST
MBT27S	316 Steel	150	8.0" (203)	26.8" (679)	0.18" (4.6)	.26" (6.6)	100	MK9SST
MBT33S	316 Steel	150	10.0" (254)	33.0" (838)	0.18" (4.6)	.26" (6.6)	100	MK9SST
MBT8H	316 Steel	250	2.0" (50.8)	7.9" (201)	0.31" (7.9)	.39" (9.9)	50	MK9SST
MBT14H	316 Steel	250	4.0" (102)	14.3" (360)	0.31" (7.9)	.39" (9.9)	50	MK9SST
MBT20H	316 Steel	250	6.0" (152)	20.5" (520)	0.31" (7.9)	.39" (9.9)	50	MK9SST
MBT27H	316 Steel	250	8.0" (203)	26.8" (679)	0.31" (7.9)	.39" (9.9)	50	MK9SST
MBT33H	316 Steel	250	10.0" (254)	33.0" (838)	0.31" (7.9)	.39" (9.9)	50	MK9SST

MBT Coated Stainless Steel Cable Ties

MBT stainless steel ties in 316 steel material are available with a nylon II protective coating. This coating creates a barrier and protectant from chemical reactions of dissimilar metals. Contact HellermannTyton for availability, minimums, and lead times.

Stainless Steel Marking System

HellermannTyton offers a line of stainless steel markers for use with HellermannTyton's stainless steel cable ties.

Material: Stainless Steel SS2343 (corresponds to AISI 316)
Text Height: .26" (6.8mm)
Marker Height: .42" (10.8mm)

See page 150 in the Identifying section of the catalog for more information.



CABLE TIE TOOLS

Ergonomics and the prevention of repetitive motion injuries, coupled with the need to continually improve assembly efficiencies and procedures, are a major concern with most cable tie users. HellermannTyton cable tie tools effectively address both issues.

HellermannTyton has focused upon making world class cable tie tools to complement its line of high quality cable ties. Rather than treat the tools as secondary, accessory items, HellermannTyton develops and manufactures cable tie tools which are truly state-of-the-art in both design and performance.

Available in mechanical, power assisted, and automatic versions, HellermannTyton tools make it easier for operators to install cable ties, while maintaining correct tension and flush cut-off. Worker safety is further enhanced as the tools can eliminate the sharp edges of a cut-off cable tie. HellermannTyton tools can be used for varying volume requirements and applications.



Mechanical Tools

Ranging from pocket sized twist tools to the high performance Mark 7 and Mark 9 series tools, HellermannTyton offers 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 heavy duty 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 and EL-TY.

High tension versions of both the Mark 7 and Mark 9 tools (MK7HT and MK9HT) offer the same design features as their standard counterparts but with higher cut-off tension capabilities. The Mark 7 and Mark 9 high tension tools both offer a 5/8" stroke.

* Does not include T18S series ties .08" wide.

Mark 7 and Mark 9 Features

- 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. 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.
- An easy to read display speeds adjustment and verification.
- On the Mark 7, a larger, inner knob sets the three variable tension levels (minimum, intermediate, and standard). The smaller, outer knob fine tunes the tension range.
- The larger inner knob on the Mark 9 sets to two variable tension levels (standard and heavy). The smaller, outer knob fine tunes the tension setting.
- Housings manufactured from a high impact, glass reinforced nylon.
- A double wall linkage adds more strength.
- Tough chromium steel components ensure longevity.
- Equipped with hook for easy hanging when the tool is not in use.
- Standard tools are military specified.

Custom modifications to accommodate a 2 mm tie tail cut-off are available for the Mark 7 and the Mark 9 series tools. Contact HellermannTyton for more information.

Mark 9 Tool for Stainless Steel Ties

The Mark 9 tool for stainless steel ties (MK9SST) has been designed to tension and cut-off HellermannTyton stainless steel ties. Adapted from the standard Mark 9 tool, the MK9SST retains the ergonomic design and reliable performance as HellermannTyton's Mark 7 and Mark 9 standard cable tie tools. The MK9SST features an adapter on the nose of the tool which is manufactured from investment cast stainless steel with smooth, radiused edges. Able to cut widths to .515" (13mm), the MK9SST accommodates all HellermannTyton's stainless steel tie sizes.



Tool Accessories

Tool Accessories		
HellermannTyton Part No.	Description	Pkg. Qty.
MK7BLADEKIT	Service kit for MK7 tool includes replacement blade, screw for nose piece, and instruction card.	1
MK9BLADEKIT	Service kit for MK9 tool includes replacement blade, screw for nose piece, and instruction card.	1

Compare one of HellermannTyton's ergonomically designed cable tie tools to any other tool in the industry. Experience the difference in design, efficiency, and worker satisfaction.

Mechanical Tools

Hellermann Tyton Part No.	Description	HellermannTyton Cable Tie Series	Pkg. Qty.
TWT1**	TytonTwyster: Lightweight and economical twist tool. Offers speed and efficiency. Fits into a pocket. (Color Orange)	T18 thru T50 Series CTT20 thru CTT60 Series	1
TWT2**	TytonTwyster: Lightweight and economical twist tool. Offers speed and efficiency. Fits into a pocket. (Color Blue)	T120 thru T150 Series CTT175 Series	1
T150	T150 Tool: 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
T250	T250 Tool: Same design features as the T150 Tool, but can tension and cut-off a wider tie.	T150 thru T250 Series CTT175 Series	1
MK7 U.S. Patent 4,793,385 DES. 306,390 Mil. Spec. MS90387-1	MK7: Durable and lightweight, this tool is user friendly and adjustable, with top-of-the-line design features. Comes standard with padded foam grip handles for comfort and control and a hook for hanging on a belt or tether.	T18 thru T50 Series CTT20 thru CTT60 Series	1
MK7HT U.S. Patent 4,997,011 DES. 306,390	MK7HT: With the same design features as the MK7, this tool offers an increased tension range. Comes standard with padded foam grip handles for comfort and control and a hook for hanging on a belt or tether.	T30 thru T50 Series CTT20 thru CTT60 Series	1
MK9 U.S. Patent 5,492,156 Mil. Spec. MS90387-2	MK9: The MK9 has the same design features as the MK7 series tools. The MK9 accommodates T18* thru T250 series ties. Comes standard with padded foam grip handles for comfort and control and a hook for hanging on a belt or tether. * With the exception of T18S series ties .08" wide.	T18 thru T250 Series* CTT20 thru CTT175 Series EL-TY Series	1
MK9HT U.S. Patent 5,492,156	MK9HT: The MK9HT has the same design features as the MK9, but offers an increased tension range. Comes standard with padded foam grip handles for comfort and control and a hook for hanging on a belt or tether.	T30 thru T250 Series CTT20 thru CTT175 Series EL-TY Series	1
MK9SST U.S. Patent 5,921,290	MK9SST: Adapted for use with stainless steel ties, the MK9SST retains the same design features as the MK9 series. The MK9SST accommodates all HellermannTyton stainless steel ties. Comes standard with padded foam grips for comfort and control and a hook for hanging on a belt or tether.	All MBT Series for both 304 and 316 materials	1

** TWT1 and TWT2 can come in a plastic pouch, if desired. Please request on order.

Power Assisted Cable Tie Tools

HellermannTyton's power assisted cable tie tools easily tension and cut-off cable ties once the tie has been applied to the bundle. Used with pneumatic power, cable ties can be installed with reduced hand effort.

Mark 7 Pneumatic — Available 3rd Quarter, 2000

HellermannTyton's Mark 7 Pneumatic (MK7P) tool combines the ergonomic design of the MK7 series of hand tools with the time/labor savings and ease of use benefits from pneumatic power. This pneumatically driven tool features a non slip, comfortable grip, soft touch trigger, and one touch tensioning /cut-off capability with properly installed cable ties. Weighing approximately 18 ounces, the MK7P is very lightweight, making it easy for the operator to install cable ties.



Mark 7 Pneumatic Features

- The Mark 7 Pneumatic (MK7P) quickly tensions and cuts off HellermannTyton cable ties from T18 through T50 series.
- MK7P speeds assembly. One touch, soft touch trigger assembly actuates an immediate tension and cut-off of the cable tie.
- Ergonomic design. Modeled after the Mark 7 series mechanical tool, the MK7P features a design which ideally fits the operator's hand. A non slip, comfortable grip, along with low weight of approximately 18 ounces, further reduces operator hand/wrist/arm fatigue when installing cable ties.
- Cable tie waste is ejected to the side after the cable tie is applied, ensuring smooth operation of the tool.
- Easy dial-in tension adjustment, along with a lock-out capability. The MK7P's tension adjustment 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 3 position tension knob has been improved with a new lever feature to reduce adjustment torque.
- An easy to read display verifies tension settings.
- Manufactured with tough, chromium steel components and high impact, glass reinforced nylon housings for maximum durability.
- Uses the same replacement blades as the Mark 7 mechanical tools. Blades are easy to change.
- Comes with a swivel hook for easy hanging.
- Uses non-lubricated air. An optional filter regulator is available if non-lubricated air is not being used.
- Operates between 70 PSI and 90 PSI maximum.
- Supplied with a 6 inch lead which comes with a quick connect fitting for 1/8" flow. Also supplied with an adapter coupling to change fittings from 1/8" to 1/4".

Other Pneumatic Tools

The MK3P can be used with T18 through T50 series HellermannTyton cable ties. The MK3P offers very high consistency in tensioning for those applications requiring this type of precision.

The MK6PN is used with T50 through T150 series HellermannTyton cable ties.



MK3P



MK6PN



MK7P

Blades		
HellermannTyton Part No.	Description	Pkg. Qty.
MK7BLADEKIT	Replacement blade, screw for nose piece, and instruction card	1
MK3PBLADE	Replacement blade	2
MK6PNBLADE	Replacement blade	2

Power Assisted Tools			
HellermannTyton Part No.	Description	HellermannTyton Cable Tie Series	Pkg. Qty.
MK7P*	Mark 7 Pneumatic Tool: Includes tool and quick connect fittings. Ergonomic tool uses pneumatic power and accomplishes rapid tension and cut-off with one trigger depression. Speeds production in higher volume applications.	T18 thru T50 Series CTT20 thru CTT60 Series	1
MK3P	Mark 3 Pneumatic Tool: Air power assisted tool offers high degree of consistency in tensioning. Speeds production in higher volume applications.	T18 thru T50 Series CTT20 thru CTT60 Series	1
MK6PN	Mark 6 Pneumatic Tool: Air power assisted tool. Speeds production in higher volume applications.	T50 thru T150 Series CTT60 thru CTT175 Series	1

*Available 3rd Quarter, 2000

AUTOMATIC CABLE TIE TOOLS

Quick Tool

HellermannTyton's Quick Tool is an automatic bench mount system ideally suited for high volume cable tie applications. This air powered tool accommodates a reel of 5,000 ties and can be used with conveyor or assembly line applications. The Quick Tool can be operated with a foot pedal or modified for an automated environment.

Quick Tool Features

- The system is a one piece, bench top unit which increases efficiency through quick fastening.
- It can be installed where a 110 VAC electrical outlet and air source are available.
- Controls fastening tension.
- Ties are available in two styles: standard and heat stabilized weather resistant.



The highly reliable Quick Tool with its reel of 5,000 ties is the preferred system for bench mount applications with high volume cable tie requirements.

Quick Tool		
Hellermann Tyton Part No.	Quick Tool Description	Pkg. Qty.
QS101	<p>Bundle Diameter: .028"-.630" (.7-16.0 mm)</p> <p>Dimensions of Machine Length: 24.5" (622 mm) Height: 14.5" (368 mm) Width Without Reel: 7.0" (178 mm) Height With Reel: 39.5" (1003 mm) Reel Diameter: 18.0" (457 mm)</p> <p>Cycle Time: 1.2 seconds</p> <p>Tensioning Force: 9.92lb. - 19.84lb. (4.5kg-9.0kg) - Adjustable</p> <p>Electric Source: 110 VAC, 50/60 cycle</p> <p>Electric Consumption: 70W</p> <p>Air Source Pressure: 90-110 psi</p> <p>Air Supply Nozzle Diameter: PT 1/4</p> <p>Weight: 44 lb. (20 kg.)</p> <p>Type: Bench Top</p> <p>Noise: 80dB (at 90 psi)</p>	1

Quick Tool Ties						
Hellermann Tyton Part No.	Material/ Color	Min. Tensile Unlocking Strength (lbs.)	Max. Bundle Dia. In. (mm.)	Approx. Length In. (mm.)	Approx. Width In. (mm.)	Pkg. Qty.
QTTIE9	Nylon 6/6, natural	18	3/4" (19.0)	4.0" (101.6)	.10" (2.5)	1 reel of 5000 ties
QTTIE0HS	Heat stabilized, weather resistant, black	18	3/4" (19.0)	4.0" (101.6)	.10" (2.5)	1 reel of 5000 ties

Operating Temperature Range:

Natural: -40°F to 185°F (-40°C to 85°C)
 Heat stabilized, weather resistant black: -40°F to 221°F (-40°C to 105°C)

Reel Dimension:

Diameter: 18.0" (457mm)
 Width: 5.20" (132mm)
 Weight: 4.8 lbs. (2.18kg)

AT2000 Auto Tool 2000

HellermannTyton's AT2000 automatic cable tie tool delivers the solution for fast, reliable, and versatile wiring harness and cable bundling requirements. Globally developed with HellermannTyton's sister companies, the AT2000 incorporates the finest ideas in cable tie automation to make wire harnessing easy and efficient.

AT2000 Features

Fast

Cable ties are installed in less than one second with one easy trigger depression, increasing productivity while decreasing labor.

Reliable

The AT2000 has been tested to perform consistently without interruption to work flow and with very little maintenance.

Ergonomic

The ergonomic design of the AT2000 features a comfortable grip, low weight, and easy trigger depression to reduce installer effort and strain while installing cable ties. In development of the AT2000, many advancements have been made toward enhancing installer comfort and ease of use.

Easy to Use

Equipped with a self-diagnostic LED information panel, the AT2000 easily guides the user through the cycles of automatic cable tie installations.

Versatile

The AT2000 can be used as a hand held or bench mount system. Powered by a standard 110VAC electrical outlet or battery pack, both power systems offer the installer the mobility needed to tackle different harnessing requirements.

Cable ties are offered in strips of 50 or a reel of 5,000, facilitating different workplaces and applications. Natural and black are standard cable tie colors with other colors available depending upon volume requirements.

Uniform Fastening Quality

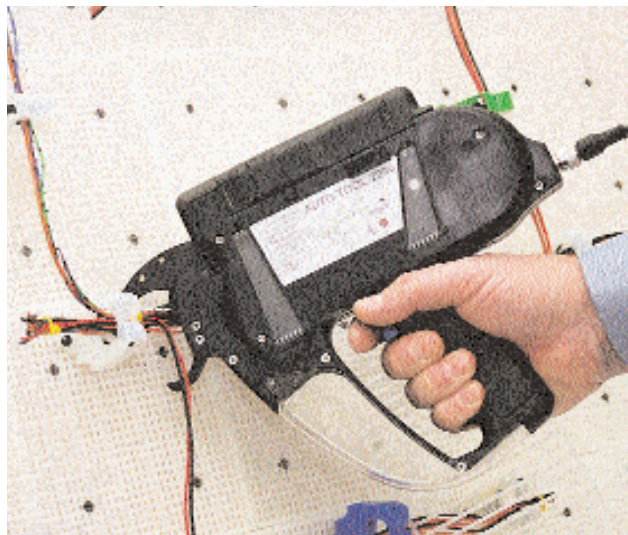
The AT2000 features adjustable tension control while delivering consistent levels of cable tie fastening.

Superior Support

Committed to its ongoing program of superior technical support of its cable tie tool systems, HellermannTyton's dedicated, knowledgeable team of professionals is equipped to service and maximize the productivity of the AT2000.



Operation and maintenance of the tool are enhanced by the AT2000's self-diagnostic LED panel. Guiding the user through the different cycles of automatic cable tie installations, the LED panel alerts the operator to the current working status of the tool.



AT2000 Ties

Operating Temperature Range:

Natural: -40°F to 185°F (-40°C to 85°C)
 Heat stabilized, weather resistant black: -40°F to 221°F
 (-40°C to 105°C)

Reel Dimension:

Diameter: 18.0" (457mm)
 Width: 5.20" (132mm)
 Weight: 4.8 lbs. (2.18kg)

AT2000		
Hellermann Tyton Part No.	Description	Pkg. Qty.
AT2000	AT2000 system. Includes AT2000 tool, power supply, power cord, tool cord, and maintenance and operation manual and video.	1

AT2000 Ties						
Hellermann Tyton Part No.	Material/ Color	Min. Tensile Unlocking Strength (lbs.)	Max. Bundle Dia. In. (mm.)	Approx. Length In. (mm.)	Approx. Width In. (mm.)	Pkg. Qty.
T18RA50	Nylon 6/6, natural	18	3/4" (19.0)	4.0" (101.6)	.10" (2.5)	500– 50 per bandolier
T18RA50HSW	Heat stabilized, weather-resistant, black	18	3/4" (19.0)	4.0" (101.6)	.10" (2.5)	500– 50 per bandolier
T18RA5000	Nylon 6/6, natural	18	3/4" (19.0)	4.0" (101.6)	.10" (2.5)	1 reel of 5000 ties
T18RA5000HS W	Heat stabilized, weather-resistant, black	18	3/4" (19.0)	4.0" (101.6)	.10" (2.5)	1 reel of 5000 ties

AT2000 Bench Mount System

HellermannTyton offers a portable bench mount system which works with existing AT2000 tool systems. It is extremely easy to set up and use. Within seconds, the AT2000 can be converted from a hand held tool to a bench mount system.

Accommodating a reel of 5,000 ties, the adjustable bench mount system allows the bundle to be brought to the tool from different positions: bottom, forward, and top. With the touch of the foot pedal, the cable tie is applied almost effortlessly. The bench mount system includes the foot pedal, tie-reel stand and tool mounting stand. Tools and ties are purchased separately.



Top Position



Bottom Position

Bench Mount		
Hellermann Tyton Part No.	Description	Pkg. Qty.
AT2BENCHMOUNT	Complete bench mount assembly. Includes foot pedal, tie-reel stand, and tool mounting stand for hands free applications. <i>Does not include AT2000 or cable ties.</i>	1

AT2000 Overhead Suspension Assembly

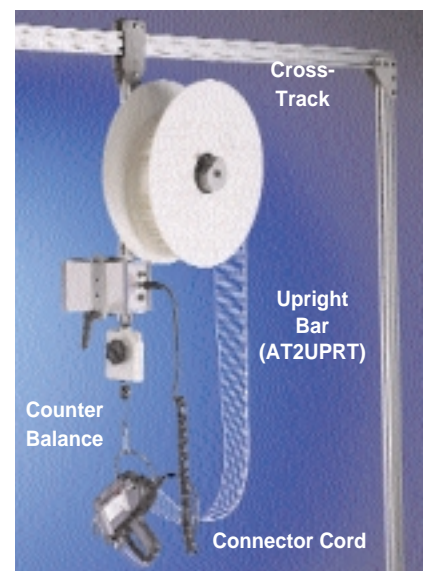
HellermannTyton's overhead suspension assembly system conveniently holds the AT2000, reel of 5,000 cable ties, and power source. The overhead assembly is available in several configurations in a variety of mounting options and is easily integrated into various manufacturing environments. The modular design allows for easy additions or modifications of the system design.

The overhead assembly system provides additional ergonomic advantages to the AT2000 system. 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 AT2000 and reel of 5,000 ties, continuous feed is achieved. Reloading of cable ties is greatly reduced, further optimizing efficiencies.

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. Contact HellermannTyton for more information.

Fasteners for unit assembly are included. Mounting fasteners are not included.



ATOHS and AT2UPRT

Overhead System

Hellermann Tyton Part No.	Description	Pkg. Qty.
AT2OHS	Overhead Suspension System includes a 10' piece of cross-track, counter balance, and curly connector cord. These pieces integrate the AT2000, power source, and reel of 5,000 ties. <i>Does not include AT2000, cable ties, or mounting fasteners.</i>	1
AT2UPRT	Kit of two 9' uprights (with four brackets for support and fasteners for unit assembly). Order with AT2OHS. <i>Does not include AT2000, cable ties, or mounting fasteners.</i>	1
AT2TMK	Table mount kit allows for mounting the system to a table and a floor (optional for additional support). Contents of kit include AT2OHS, AT2UPRT, and mounting brackets and fasteners for unit assembly. <i>Does not include AT2000, cable ties, or mounting fasteners.</i>	1
AT2FMK	Direct mounting of a system to a floor only. Contents of kit include the AT2OHS, AT2UPRT, and mounting brackets, supports, and fasteners for unit assembly. <i>Does not include AT2000, cable ties, or mounting fasteners.</i>	1
AT2WMK	Wall mount kit allows for direct mounting against a wall. Contents of kit include AT2OHS, four 30" support pieces, mounting brackets, and fasteners for unit assembly. <i>Does not include AT2000, cable ties, or mounting fasteners.</i>	1
AT2MOBILE	Allows for completely mobile unit that can be moved to different areas, complete with locking casters and support brackets. Contents of kit include AT2OHS, AT2UPRT, mobile kit, and fasteners for unit assembly. <i>Does not include AT2000, cable ties, or mounting fasteners.</i>	1



AT2MOBILE

Battery Pack

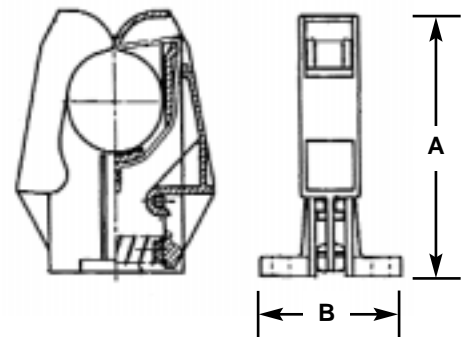
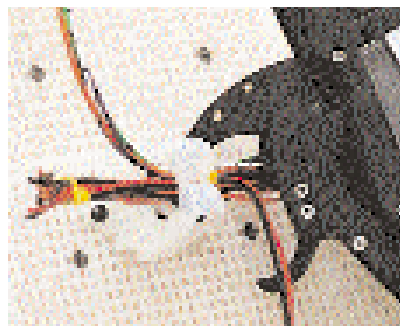
HellermannTyton's battery pack powers the AT2000 and is worn by the operator, allowing for complete mobility.

Battery Pack

Hellermann Tyton Part No.	Description	Pkg. Qty.
AT06500030	Battery with belt clip and curly connector cord	1
AT06500020	Charging unit for battery	1

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 pre-formed, making harnessing easier. Material: nylon 6/6 with an elastic band inside clamp.



Wire Retainer

Hellermann Tyton Part No.	A Height In. (mm)	B Width In. (mm)	Mounting In. (mm)	Max Bundle Dia. In. (mm)	Pkg. Qty.
HH-20	2.12" (54)	1.22" (31)	#6 screw (M3)	.83" (21)	25

CABLE TIE MOUNTS

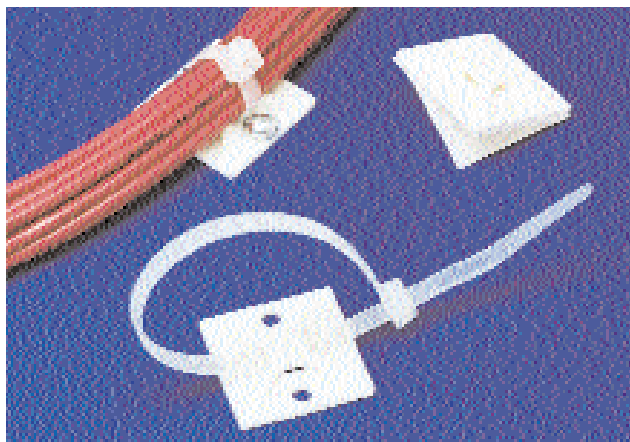
HellermannTyton offers a wide variety of mounting bases suited for many applications. Mounting bases are used in conjunction with cable ties to stabilize and secure wiring bundles, both indoors and outdoors. These mounting bases can be secured to a surface using rubber based adhesive, acrylic adhesive, or also can be screw mounted.

Cable Tie Mounting Bases

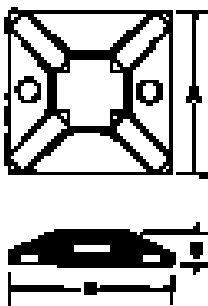
HellermannTyton's 4-way mounting bases are available in four sizes to accommodate T18 through T150 series cable ties. Insertion of ties can be made from all four sides. Each mount may be secured with two screws, with adhesive backing, or both, for ease of application and stability. Standard color: white.

For applications where higher temperatures, certain chemicals, or UV radiation are a concern and an adhesive is the preferred method for securing, the acrylic adhesive 4-way mounting bases are recommended.

The 2-way mounting bases may be secured with one screw, with adhesive backing, or both, and allow ties to be inserted from two sides. Standard color: white.



4-Way Mounting Bases

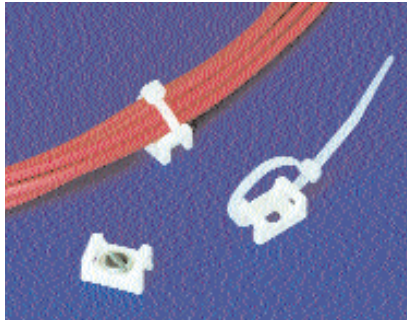


Cable Tie Mounting Bases				Dimensions - In. (mm.)			Pkg. Qty.
HellermannTyton Part No.	Cable Tie Series	Mounting	A	B	C		
4-Way Screw Mount and Rubber-Based Adhesive							
MB2.510C2 MB2.510M4	T18	#3 screw	.625" (15.88)	.625" (15.88)	.130" (3.30)	100 1000	
MB2.5A10C2 MB2.5A10M4	T18	Adhesive	.625" (15.88)	.625" (15.88)	.130" (3.30)	100 1000	
MB310C2 MB310M4	T18, T30	#4 screw	.750" (19.05)	.750" (19.05)	.150" (3.81)	100 1000	
MB3A10C2 MB3A10M4	T18, T30	Adhesive	.750" (19.05)	.750" (19.05)	.150" (3.81)	100 1000	
MB410C2 MB410H4	T18 thru T50	#8 screw	1.125" (28.58)	1.125" (28.58)	.190" (4.83)	100 500	
MB4A10C2 MB4A10H4	T18 thru T50	Adhesive	1.125" (28.58)	1.125" (28.58)	.190" (4.83)	100 500	
MB510C2 MB510F4	T18 thru T150	#8 screw	1.500" (38.10)	1.500" (38.10)	.250" (6.35)	100 250	
MB5A10C2 MB5A10F4	T18 thru T150	Adhesive	1.500" (38.10)	1.500" (38.10)	.250" (6.35)	100 250	
4-Way Acrylic Adhesive							
MB3A10A2C2 MB3A10A2H4	T18, T30	Adhesive	.750" (19.05)	.750" (19.05)	.150" (3.81)	100 500	
MB4A10A2C2 MB4A10A2H4	T18 thru T50	Adhesive	1.125" (28.58)	1.125" (28.58)	.190" (4.83)	100 500	
MB5A10A2C2 MB5A10A2F4	T18 thru T150	Adhesive	1.500" (38.10)	1.500" (38.10)	.250" (6.35)	100 250	
2-Way Screw Mount and Rubber-Based Adhesive							
MB4SH10C2 MB4SH10H4	T18 thru T50	#6 screw	1.125" (28.58)	1.125" (28.58)	.210" (5.33)	100 500	
MB3SHA10C2 MB4SHA10H4	T18 thru T50	Adhesive	1.125" (28.58)	1.125" (28.58)	.210" (5.33)	100 500	

All mounts listed above are white. Black mounts are also available. Insert "0" instead of "10" in the part number. Example: MB30C2 is a black screw mount.

Cable Tie Mounts

The CTM series is designed to provide stability to wire bundles. These mounts can accommodate miniature, intermediate, or standard cross-section cable ties. Each mount is secured with a single screw. Standard color: white.

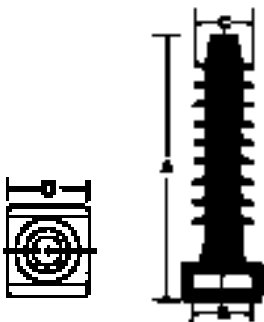


Cable Tie Mounts

Hellermann Tyton Part No.	Cable Tie Series	Mounting	Dimensions - In. (mm.)			Pkg. Qty.
			A	B	C	
CTM010C2 CTM010M4	T18 thru T50	#6 screw	.380" (9.65)	.600" (15.24)	.265" (6.73)	100 1000
CTM110C2 CTM110M4	T18 thru T50	#8 screw	.380" (9.65)	.600" (15.24)	.265" (6.73)	100 1000
CTM210C2 CTM210M4	T18 thru T120	#8 screw	.620" (15.75)	.875" (22.23)	.375" (9.53)	100 1000
CTM310C2 CTM310M4	T18 thru T120	#10 screw	.620" (15.75)	.875" (22.23)	.375" (9.53)	100 1000
CTM410C2 CTM410M4	T18 thru T120	.250" screw	.620" (15.75)	.875" (22.23)	.375" (9.53)	100 1000

Masonry Mounts

Masonry mounts provide a permanent method of attaching wire and cable to masonry surfaces. HellermannTyton's masonry mounts simply tap into predrilled holes and can be used for indoor and outdoor applications. Standard color: black.

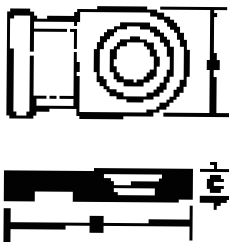


Masonry Mounts

Hellermann Tyton Part No.	Cable Tie Series	Mounting Hole In. (mm.)	Min. Depth In. (mm.)	Dimensions In. (mm.)				Pkg. Qty.
				A	B	C	D	
MMB00C2 MMB00M4	T18 thru T50	.188" (4.78)	.935" (23.75)	1.185" (30.01)	.218" (5.54)	.236" (5.99)	.390" (9.91)	100 1000
MMB.50C2 MMB.50M4	T18 thru T50	.250" (6.35)	1.00" (25.4)	1.244" (31.60)	.220" (5.59)	.308" (7.82)	.384" (9.75)	100 1000
MMB10C2 MMB10H4	T18 thru T150	.312" (7.92)	1.5" (38.10)	1.715" (43.56)	.373" (9.47)	.362" (9.19)	.500" (12.7)	100 500

Low Profile Cable Tie Mounts

Low profile mounts are intended for use in securing bundles where space is limited. Each mount is fastened with a single screw. Standard color: white.

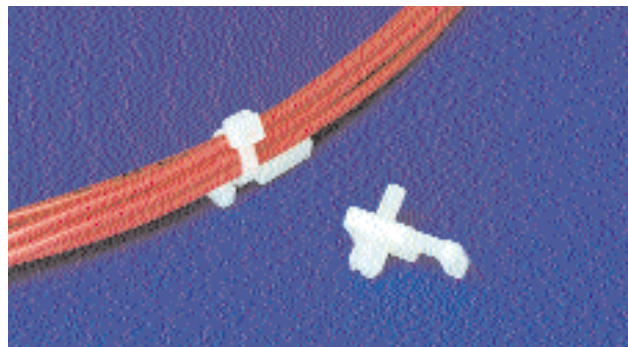


Low Profile Cable Tie Mounts

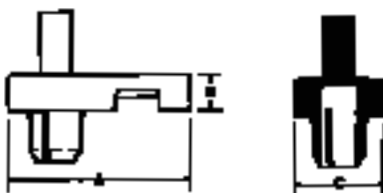
HellermannTyton Part No.	Cable Tie Series	Mounting	Dimensions In. (mm.)			Pkg. Qty.
			A	B	C	
MB19C2 MB19M4	T18	#2 screw	.315" (8.00)	.495" (12.57)	.135" (3.43)	100 1000
MB29C2 MB29M4	T18 thru T50	#8 screw	.495" (12.57)	.810" (20.57)	.135" (3.43)	100 1000

Low Profile Rivet Mounts

The low profile rivet mount is designed to secure wiring bundles and fastens with the drive rivet through a predrilled hole. This mount is ideal for use in applications where space is limited. Standard color: natural.



Installation of this mount is fast and simple. Place rivet in the predrilled hole and drive pin flush to the base. This firmly fixes the component.

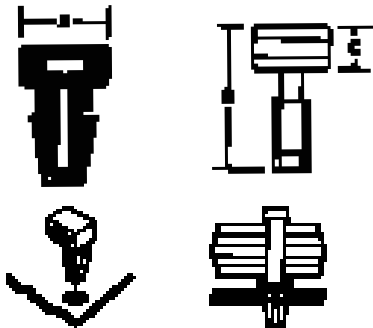
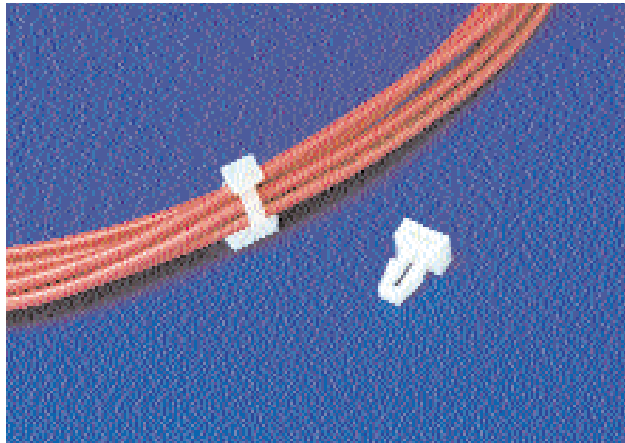


Low Profile Rivet Mounts

HellermannTyton Part No.	Cable Tie Series	Mounting Hole In. (mm.)	Max. Panel Thickness	Dimensions In. (mm.)			Pkg. Qty.
				A	B	C	
LKCRF19C2 LKCRF19H4	T18 thru T50	.250" (6.35)	10 GA. (.134")	.945" (24.00)	.160" (4.06)	.470" (11.94)	100 500

Push Mounts

Intended for use in a predrilled hole, this push mount accepts T18 through T50 series cable ties. Once inserted through the hole, the mount locks into place. Standard color: white.

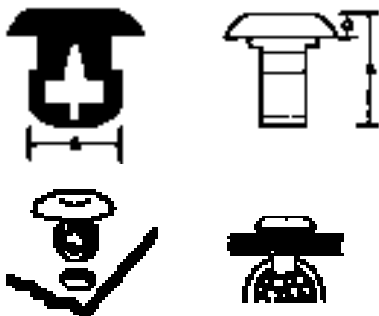
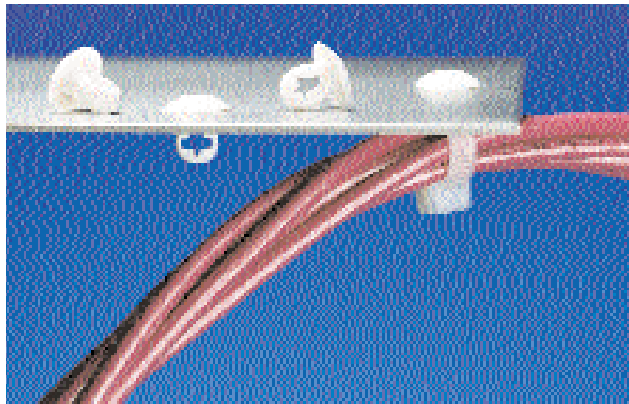


Push Mounts

Hellermann Tyton Part No.	Cable Tie Series	Mounting Hole In. (mm.)	Max. Panel Thickness	Dimensions In. (mm.)			Pkg. Qty.
				A	B	C	
TM1SF10C2 TM1SF10M4	T18 thru T50	.250" (6.35)	10 GA. (.134")	.400" (10.16)	.620" (15.75)	.182" (4.62)	100 1000

Push Button Mounts

The push button mounts are used where the back of the panel is accessible. Standard color: white.

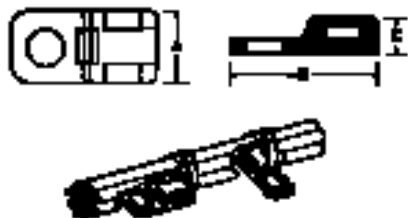
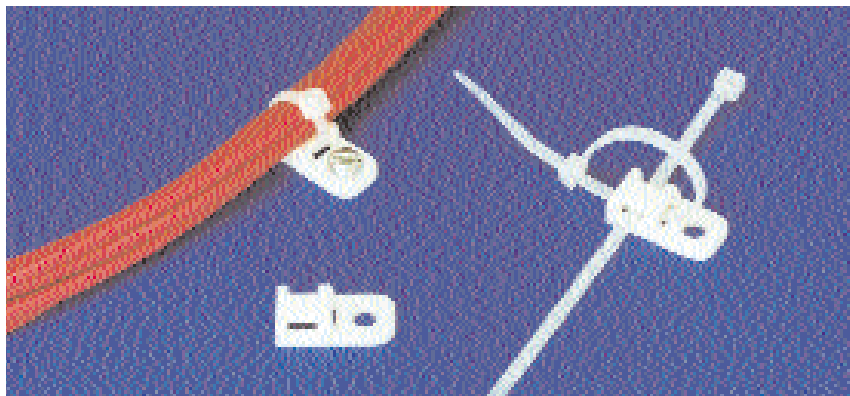


Push Button Mounts

Hellermann Tyton Part No.	Cable Tie Series	Mounting Hole In. (mm.)	Max. Panel Thickness	Dimensions In. (mm.)			Pkg. Qty.
				A	B	C	
PBM10C2 PBM10M4	T18 thru T50	.250" (6.35)	10 GA. (.134")	.260" (6.60)	.396" (10.06)	.079" (2.01)	100 1000

Cable Tie Anchor Mounts

Cable ties may be inserted from any of the four sides of the CTAM. This feature allows the mount to be placed either parallel or perpendicular to the wires. Standard color: white.



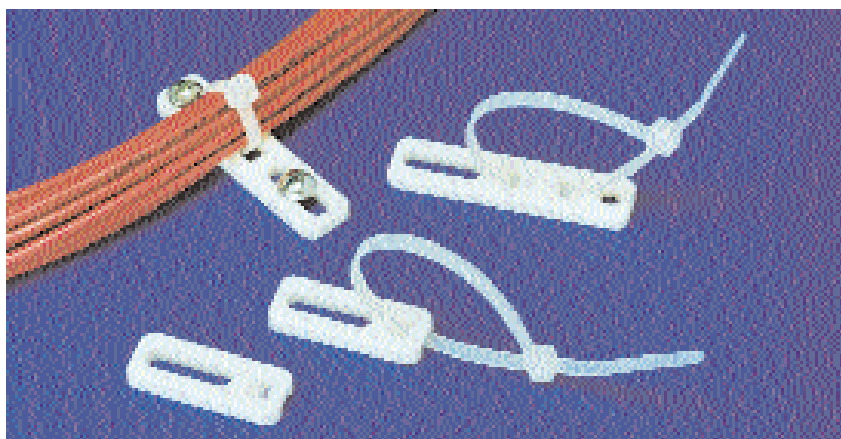
Cable Tie Anchor Mounts

Hellermann Tyton Part No.	Cable Tie Series	Mounting	Dimensions In. (mm.)			Pkg. Qty.
			A	B	C	
CTAM110C2 CTAM110M4	T18 thru T50	#8 screw	.400" (10.16)	.800" (20.32)	.200" (5.08)	100 1000
CTAM210C2 CTAM210M4	T18 thru T50	#10 screw	.400" (10.16)	.800" (20.32)	.200" (5.08)	100 1000



Cable Tie Anchor Plates

These plates have slotted mounting holes to provide for easier alignment of mount and bundles. Once aligned, they are fastened securely by tightening the applied screw. The CTAP2 allows an additional screw for maximum stability. Both plates are used perpendicularly to the wire bundle. Standard color: white.



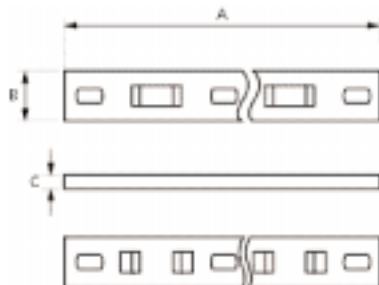
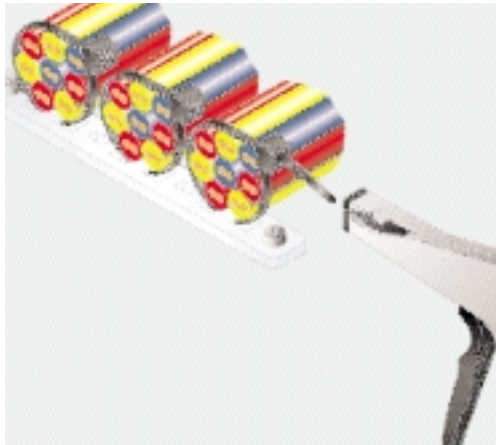
Cable Tie Anchor Plates

Hellermann Tyton Part No.	Cable Tie Series	Mounting	Dimensions In. (mm.)			Pkg. Qty.
			A	B	C	
CTAP110C2 CTAP110M4	T18 thru T50	#10 screw	.500" (13.97)	1.34" (34.04)	.150" (3.81)	100 1000
CTAM210C2 CTAP210H4	T18 thru T50	#10 screw	.500" (13.97)	2.13" (54.10)	.150" (3.81)	100 500



Cable Tie Mounting Plates

- Bundle cables in parallel sequence
- From one to six bundles
- Available in 2 screw sizes
- Manufactured from durable nylon 6/6 material - white color
- Recommended for use with HellermannTyton cable ties T18 through T50 series



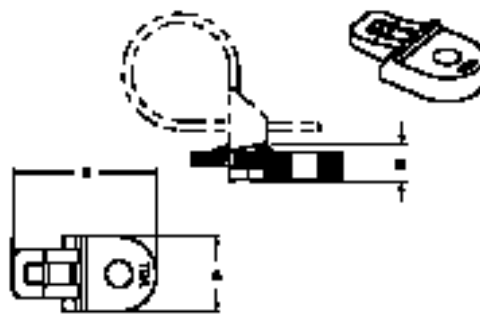
Cable Tie Mounting Plates

Hellermann Tyton Part No.	No. of Bundles	Cable Tie Series	Mounting	Dimensions – In. (mm.)			Pkg. Qty.
				A	B	C	
MP1 M3	1	T18-T50	#6 (M3) screw	1.75" (44.4)	.50" (12.7)	.125" (3.2)	100
MP1 M5	1	T18-T50	#10 (M5) screw	1.75" (44.4)	.50" (12.7)	.125" (3.2)	100
MP2 M3	2	T18-T50	#6 (M3) screw	3.0" (76.2)	.50" (12.7)	.125" (3.2)	100
MP2 M5	2	T18-T50	#10 (M5) screw	3.0" (76.2)	.50" (12.7)	.125" (3.2)	100
MP3 M3	3	T18-T50	#6 (M3) screw	4.25" (108)	.50" (12.7)	.125" (3.2)	100
MP3 M5	3	T18-T50	#10 (M5) screw	4.25" (108)	.50" (12.7)	.125" (3.2)	100
MP4 M3	4	T18-T50	#6 (M3) screw	5.50" (140)	.50" (12.7)	.125" (3.2)	100
MP4 M5	4	T18-T50	#10 (M5) screw	5.50" (140)	.50" (12.7)	.125" (3.2)	100
MP5 M3	5	T18-T50	#6 (M3) screw	6.75" (171.6)	.50" (12.7)	.125" (3.2)	100
MP5 M5	5	T18-T50	#10 (M5) screw	6.75" (171.6)	.50" (12.7)	.125" (3.2)	100
MSMP5/610C2	5	T18-T50	#6 (M3) screw	8.1"	.620"	.210"	100
MSMP5/1010C2			#10 (M5) screw	(205.74)	(15.75)	(5.33)	100
MSMP6/610C2	6	T18-T50	#6 (M3) screw	9.6"	.620"	.210"	100
MSMP6/1010C2			#10 (M5) screw	(243.84)	(15.75)	(5.33)	100

All product reference with #6 screw mount are made to U.S. Military specification – MS 3339

Lashing Tie Mounts

The lashing tie mount is designed to snap into the T250 lashing tie. The tie head is assembled perpendicularly to the mount. The strap assumes a position parallel to the mount when inserted into the head. The lashing tie mount is recommended for indoor or outdoor wall mount cable applications. Manufactured from UV stabilized nylon 6/6, the lashing tie mount is available in a standard color of black.



Lashing Tie Mounts

Hellermann Tyton Part No.	Cable Tie Series	Mounting	Dimensions In. (mm.)			Pkg. Qty.
			A	B	C	
LTM2500C2	T250	1/4" screw	1.46"	.735"	.355"	100
LTM2500H4			(37.08)	(18.67)	(9.02)	500

Heavy Duty Mounts

HellermannTyton heavy duty mounts were developed in conjunction with the T250 and T255 series cable ties to harness wires and hoses. These mounts contain a small tab inside the mounting hole to temporarily engage threads, which allows assemblers to pre-install the mount on a stud before securing with a washer and nut. The heavy duty mounts accept all standard HellermannTyton cable ties up to 1/2" wide. Standard color: black.



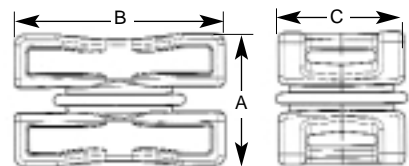
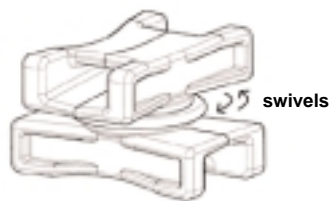
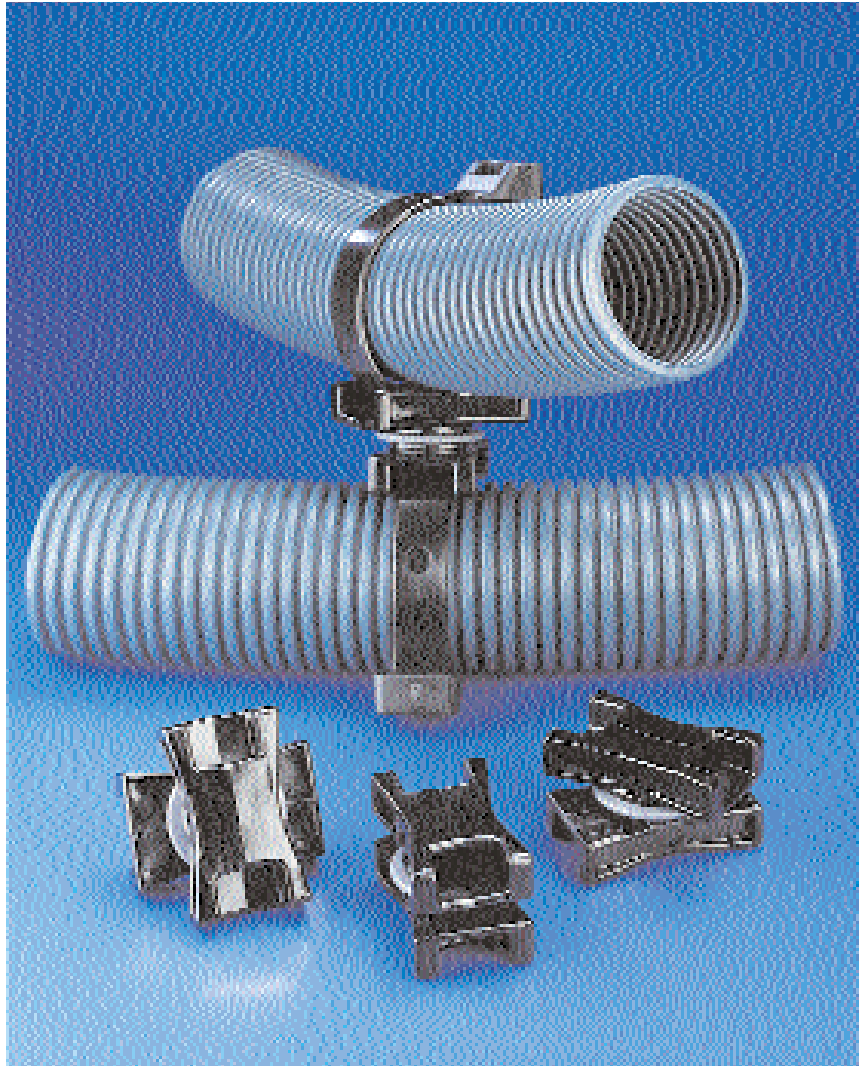
Heavy Duty Mounts

U.S. Patent Number 5,820,083

HellermannTyton Part No.	Mounting	Max. Dia. for Washer/Socket In. (mm.)	Approx. Length In. (mm.)	Approx. Width In. (mm.)	Pkg. Qty.
HDM190HIRC2	1/4"	.73"	1.43"	.76"	100
HDM190HIRH4		(18.54)	(36.32)	(19.30)	500
HDM250HIRC2	#10	.73"	1.43"	.76"	100
HDM250HIRH4		(18.54)	(36.32)	(19.30)	500
HDM3120HIRC2	5/16"	.73"	1.43"	.76"	100
HDM3120HIRH4		(18.54)	(36.32)	(19.30)	500

Dual Swivel Saddle Mounts

This saddle mount is installed between two bundles (such as wires, cables, hoses, tubing, conduit, etc.) to separate them and prevent chafing and wear. The mount can be rotated by hand allowing the bundles to be crossed and rotated at any angle the application requires. Cable ties, which secure the bundles, are used with the mount. The dual swivel saddle mount accommodates cable ties up to 1/2" wide. Manufactured from heat stabilized, black nylon 6/6 material.



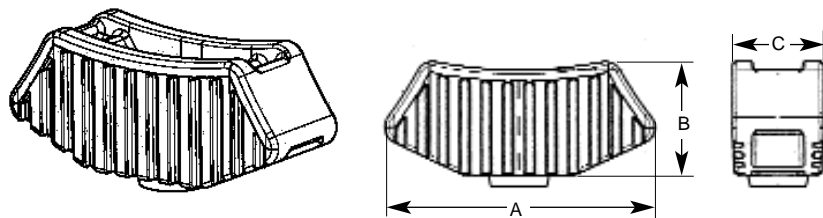
Dual Swivel Saddle Mounts

Patents Pending

Hellermann Tyton Part No.	Cable Tie Series	Maximum Bundle Dia. In. (mm.)	Minimum Pull-Apart Strength	Dimensions In. (mm.)			Pkg. Qty.
				A	B	C	
DSWS50C2	T50 thru T250	6.0" (152.4)	250 lbs.	.93" (23.6)	1.6" (40.6)	1.0" (25.4)	100

Saddle Mounts for Button Head Ties

Designed to be used with HellermannTyton's BT120LD and BT120LLD button head ties (see page 18), the saddle mount stands off bundles from frame rails, providing clearance from bolts and other protrusions. Bundles are protected from abrasion. The tie is snapped into the mount which allows the strap and tie assembly to be pre-installed on the frame rail or panel. The mount can secure 3 separate bundles, providing parallel spacing between the frame rail and adjacent bundles. The saddle mount is manufactured with a pilot bushing which prevents the cable tie from chafing against the burr edge of the mounting hole. Mount is manufactured from high impact, heat stabilized, black nylon 6/6 material.



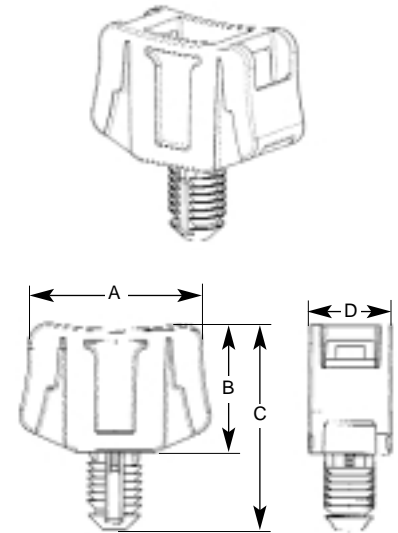
Saddle Mounts for Button Head Ties

Patents Pending

HellermannTyton Part No.	Mounting Hole In. (mm.)	Panel Thickness In. (mm.)	Standoff Height In. (mm.)	Dimensions In. (mm.)			Max. Bundle Dia. In. (mm.)		Pkg. Qty.
				A	B	C	Center	Sides	
MSBT1200HIRHSC 2	.440" (11.18) to .820" (20.83)	.160" (4.06) to .750" (19.05)	.875" (22.23)	1.90" (48.3)	.81" (20.6)	.65" (16.5)	6.0" (152.4)	1.0" (25.4) <small>(dependent upon size of center bundle)</small>	100

Fir Tree Saddle Mounts

The fir tree saddle mount is designed for use with HellermannTyton cable ties from T250/T255 series down to the T50 series. This saddle mount acts as a standoff – elevating bundles above bolt protrusions commonly found in frame rails and panels. A tension tab on the mount allows cable ties to be pre-assembled in a ready position prior to bundles being brought to the mount. The mount can secure 3 separate bundles, providing parallel spacing between the frame rail and adjacent bundles. Recommended for use with low impacted equipment. Mount is manufactured from high impact, heat stabilized, black nylon 6/6 material.

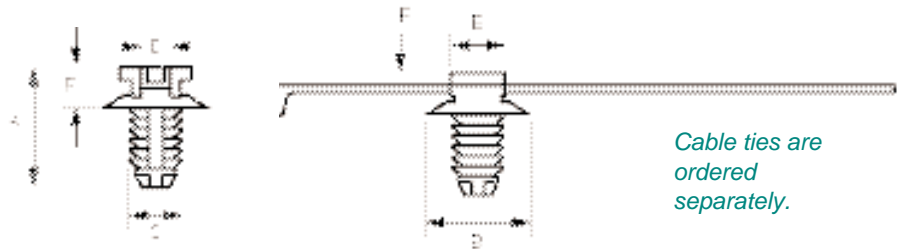


Patents Pending

Fir Tree Saddle Mounts				Dimensions In. (mm.)				Max. Bundle Dia. In. (mm)		Pkg. Qty.
Hellermann Tyton Part No.	Mounting Hole In. (mm)	Panel Thickness In. (mm)	Standoff Height In. (mm)	A	B	C	D	Center	Sides	
S3STM500HIRHSC2	.50" (12.70)	.075"-.515" (1.91 - 13.08)	1.30" (33.02)	1.98" (50.29)	1.36" (34.54)	2.16" (54.86)	.86" (21.84)	5" (127.00)	.50" to 1.5" (12.7 to 38.10) <small>(dependent upon size of center bundle)</small>	100

Fir Tree Mounts

- Assembled with HellermannTyton cable ties
- Material - Nylon 6/6
- Color - Black



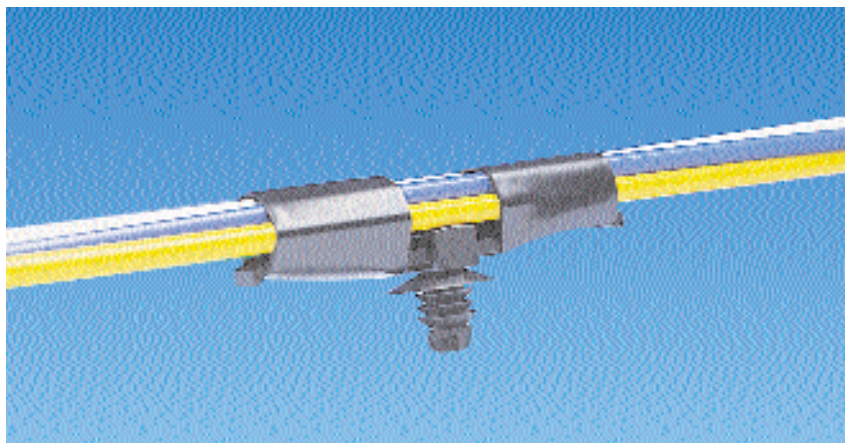
*Cable ties are
ordered
separately.*



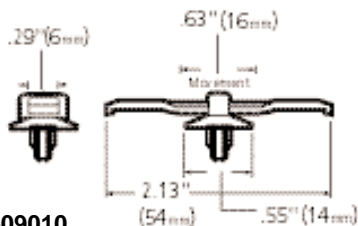
Fir Tree Mounts										
Hellermann Tyton Part No.	Cable Tie Series	Mounting Hole In. (mm)	Panel Thickness In. (mm)	A Height In. (mm)	B Width In. (mm)	C In. (mm)	D In. (mm)	E In. (mm)	F In. (mm)	Pkg. Qty.
FT5	T18-T50	.197" (5)	.028"-.118" (0.7 - 3.0)	.52" (13.2)	.63" (16)	.23" (5.9)	.20" (5)	.46" (11.6)	.27" (6.9)	500
FT6	T18-T50	.236" (6)	.028"-.118" (0.7 - 3.0)	.53" (13.5)	.63" (16)	.31" (7.9)	.20" (5)	.46" (11.6)	.28" (7.2)	500
FT7	T18-T50	.276" (7)	.031"-.276" (0.8 - 7.0)	.75" (19.0)	.63" (16)	.35" (9.0)	.20" (5)	.46" (11.6)	.25" (6.3)	500
FT10	T50	.394" (10)	.031"-.236" (0.8 - 6.0)	.75" (18.6)	.71" (18)	.43" (11.0)	.20" (5)	.46" (11.6)	.26" (6.50)	500

Cable Harness Mounts

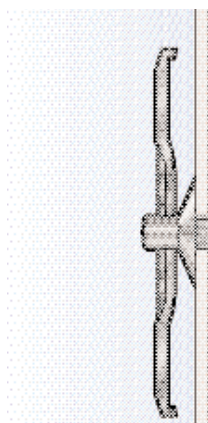
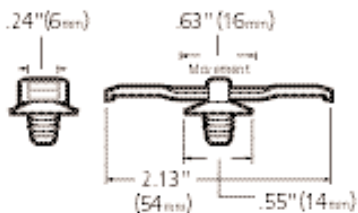
- Tape or cable tie the mount onto harness, then push into a hole in the panel.
- Allows .31" (8mm) of movement either side of center to allow for alignment
- Material - Nylon 6/6
- Color - Black



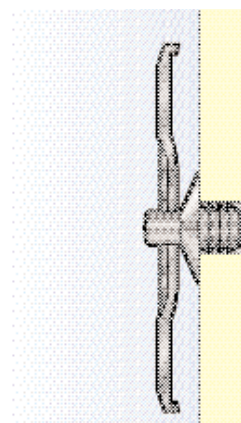
150-08010



150-09010



150-08010



150-09010

Part No. 150-09010 is designed to mount into a solid panel such as sheet metal or wood.

Cable Harness Mounts			
HellermannTyton Part No.	Mounting Hole In. (mm)	Panel Thickness In. (mm)	Pkg. Qty.
150-08010	.248" - .276" (6.3 - 7.0)	.019"-.062" (0.5 - 1.6)	500
150-09010	.256"-.276" (6.5 - 7.0)	>.019" (> 0.5)	500