Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

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CABLE MANAGEMENT AND IDENTIFICATION SOLUTIONS

HellermannTyton

BUNDLING AND SECURING | ROUTING AND PROTECTION | CLAMPING | IDENTIFICATION SYSTEMS | WIRE CONNECTORS

HellermannTyton

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

HellermannTyton is proud to manufacture products in Milwaukee, Wisconsin, our North American corporate headquarters and employ a growing number of workers in its offices and plants. With thanks to customers like you, we continue to expand our commitment to growing our manufacturing presence in the USA.

TABLE OF CONTENTS

INTRODUCTION 3-4
MATERIAL INFORMATION AND SPECIFICATIONS 5-7

BUNDLING & SECURING 9-107
Cable Ties 9-15
Cable Ties - High Temperature 16-18
Cable Ties - Special Material 19-27
Cable Ties - Special Purpose 28-67
Clips 68-72
Grip Ties 73-75
Cable Tie Tools 76-90
Mounts 91-107

ROUTING & PROTECTION 109-167
Wiring Duct 109-132
Helawrap 133-136
Spiralwrap 137-139
Convoluted Tubing 140-142
Braided Sleeving 143-164
Grommet 165-166
Electrical Tape 167

CLAMPING 169-181
Snapper Hose Clamps 169-174
Screw Mount Cable Clamps 175-177
Adhesive Cable Clamps 178-179
Flat Ribbon Cable Clamps 180
Nail Clips 181

IDENTIFICATION SYSTEMS 183-221
TagPrint® PRO 3.0 Software 183-185
Workstation Printers 186-187
Thermal Transfer Labels 188-195
Nameplate Labels 196-197
Continuous Vinyl Labels 198
ShrinkTrak Heat Shrinkable Markers 199-202
TipTag Cable Markers 203-204
Laser Tag Labels 205-210
Ink Jet Labels 211-215
Pre-Printed Installation Labels 216-219
Rite-On Markers 220
Wire Marker Tape 221

WIRE CONNECTORS 223-225
HelaCon 223-225

INDEX 226-241

Differentiated Solutions from HellermannTyton

Product Differentiation

At HellermannTyton, we use cutting-edge materials and distinctive designs to manufacture the products which improve performance, exceed safety guidelines, and deliver reliable implementation at the lowest cost. Our varied and ever-evolving collection of solutions offer the differentiated advantage that enables project wins and delivers a point of difference to end-users.

Product Depth

The breadth and depth of HellermannTyton's product line covers a range of highly engineered products from bundling and securing to routing, protection, insulation, network connectivity and identification solutions. We have all the major categories covered with our comprehensive line of products that offer a combination of flexibility, simplicity and value to an end-user customer. In this catalog, see what HellermannTyton offers in cable management and identification solutions. Check out our other catalogs or website for the full range of products.

Vertical Market Support

Through advanced product suites, market specific tools and resources, HellermannTyton holds leading industry postions in key markets.

OEM
MRO/Industrial
Industrial Automation
Renewable Energies
Wire Processing
Datacom

Let us know how we can lend our industry expertise and experience in these markets to your project.

Renewable Energy / Solar

Renewable Energy / Wind

OEM

MRO / Industrial

Wire Processing

Datacom

Industrial Automation

Quality Certifications, Specifications & Warranty

ISO 9001

The International Standards Organization (ISO) establishes worldwide standards for products and services in recognition of increasing globalization of markets. The ISO program determines the requirements for the quality assurance programs. HellermannTyton has achieved ISO 9001 certifications at all of its U.S. locations.

ISO/TS16949

ISO / TS16949 is a recognized standard for manufacturers maintaining a strict Quality Management System servicing the automotive industry. HellermannTyton has achieved and maintains certification to this standard.

ISO 14001

ISO 14001 is a voluntary standard for Environmental Management Systems established by the International Organization for Standardization. Its goal is to provide benchmarks for reviewing and improving environmental performance. HellermannTyton takes an active role in this process of continuous improvement.

AS9100

AS9100 is a recognized standard for manufacturers maintaining a strict Quality Management System servicing the aerospace industry. HellermannTyton has achieved and maintains registration to this standard.

International Electro-Technical Commission (IEC)

Representatives from key industry suppliers participate in creating standards that provide continuous improvement for products and services. HellermannTyton chaired the committee that created standard 62275 (replaced 1565) for Wire Positioning Devices.

RoHS / WEEE

The scope of the European Union's Restriction of Hazardous Substances (RoHS) and the Waste Electrical and Electronic Equipment (WEEE) directives covers all electrical and electronic equipment and their components sold into the European Union. Throughout this catalog, you will see designations where materials are RoHS compliant.

Trade Level Affiliations

National Association of Electrical Distributors (NAED)

National Electrical Manufacturers Association (NEMA)

Building Consulting Services International

Warranty Policy

HellermannTyton products are warranted to be free from defects in material and workmanship at the time sold by us; but our obligation under this warranty and that of the seller is limited to the replacement of the product, and neither we nor the seller are bound by any other warranty, expressed, implied or statutory. Under no circumstances are we or the seller liable for any loss, damage, expenses or consequential damages of any kind arising out of the use or inability to use these products. All are sold with the understanding that the user will test them in actual use and determine their adaptability for the intended uses.

HellermannTyton has worked very closely with its material suppliers to develop resins that are specifically formulated for fastener and cable tie production. HellermannTyton has spearheaded material advancements in component manufacturing to assure customers the finest quality of products. Environmental factors can have an adverse effect on fasteners. It is very important to use the most suitable material for each application. HellermannTyton fasteners are available in a variety of materials ranging from polyamides (nylon) to fluoropolymers. **All materials listed below are RoHS compliant.**

Polyamide 6.6 – General Purpose
General purpose polyamide 6.6 features lightweight, high strength and a wide temperature range. Polyamide 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.

Polyamide 6.6 – Heat Stabilized
With similar properties and benefits as polyamide 6.6, products manufactured with heat stabilized polyamide 6.6 material have a chemical stabilizer added for higher continuous temperature applications.

*Polyamide 6.6 – UV Resistant
Chemical inhibitors are used to give polyamide 6.6 material added properties to fight against premature aging of products due to the effects of ultraviolet rays.

Polyamide 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 HellermannTyto black cable ties to meet the particular military specification for cable ties.

Polyamide 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 polyamide 6.6, but this resin has been formulated to minimize such effects.

*Polyamide 6.6 – Impact Modified, Heat Stabilized and UV Resistant
Impact modified polyamide 6.6 offers the increased flexibility, heat resistance and UV resistance of the high impact material with the added feature of greater resistance to vibration, heat and sunlight for mobile applications.

Polyamide 6.6 – Impact Modified, Heat Stabilized, UV Stabilized
This material has impact modifiers that increase flexibility, impact strength and improves resistance to moisture fluctuations. Heat stabilizers are added to increase heat resistance and UV stabilizers are added to increase UV resistance.

Polyamide 4.6
Polyamide 4.6, like polyamide 6.6, offers lightweight and high strength benefits, but offers an even wider temperature range. This material can be used at a higher continuous operating temperature than polyamide 6.6 - heat stabilized. In addition to having excellent heat resistance, polyamide 4.6 has low creep effects and retention of stiffness at elevated temperatures.

Polypropylene
Polypropylene is used in environments where chemical effects on polyamide 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 polyamide 6.6 (about half). Polypropylene has good UV resistance.

Polyamide 11
Polyamide 11 is a renewably sourced material which has excellent UV resistance and is resistant to many chemicals including metal oxides. Although it is not as strong as Polyamide 6.6 materials, it absorbs very little moisture which makes it ideal for outdoor applications.

Polyamide 12
Polyamide 12 possesses many of the same characteristics as Polyamide 11, however it absorbs slightly less moisture, making it ideal for outdoor applications.

Ethylenterafluorineethylene - ETFE
ETFE is resistant to a wide range of chemicals, such as concentrated hydrofluoric and sulfuric acids, but it is not as strong as polyamide 6.6 materials. It is also a low water absorbing material, therefore, is not adversely affected by water. ETFE is radiation resistant up to 200 megarads and meets the fire and smoke requirements of IEEE 383. ETFE also withstands high temperatures and ultraviolet light exposure. Products made from ETFE material also have non-outgassing properties for zero gravity applications.

Polyacetal
Polyacetal has excellent dielectric properties, UV and chemical resistance, and a UL94-HB flame rating. It has been tested for excellent weatherability against moisture, sunlight, and other environmental conditions.

Polyetheretherketone – PEEK
This material is an excellent choice for high temperature environments. It also has excellent chemical resistance and is resistant to abrasion. PEEK material has a relatively high tensile strength and it has the ability to retain its tensile strength when continuously conditioned in water at elevated temperatures and pressures.

Thermoplastic Vulcanizate (TPV)
TPV is a durable rubber material that is chemical and abrasion resistant and remains flexible at low temperatures.

For more information on RoHS/WEEE Compliance, go online to: http://www.hellermann.tyton.com/rohs.asp

** UV Resistant = Material contains less than 2% carbon or a UV additive to improve UV resistance.*

Material Specifications

MATERIAL	CONTINUOUS OPERATING TEMPERATURE MAX.	CONTINUOUS OPERATING TEMPERATURE MIN.	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
Polyamide 6.6 - General Purpose (PA66)	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
Polyamide 6.6 - Heat Stabilized (PA66HS)	221°F 105°C	-40° F -40° C	12,000	94V-2	26	1 x 10^5 Rads	Poor	ASTM D-4066PA0121
***Polyamide 6.6 - UV resistant (PA66UV)**	185°F 85°C	-40°F -40°C	12,000	94V-2	26	1 x 10^5 Rads	Good	-
Polyamide 6.6 - 2% Carbon UV stabilized (OUV)	185°F 85°C	-40°F -40°C	12,000	94V-2	26	1 x 10^5 Rads	Very Good	ASTM D-4066PA0181, MS3367/8
Polyamide 6.6 - Flame Retardant (PA66VO)	185°F 85°C	-40°F -40°C	10,800	94V-0	34	1 x 10^5 Rads	Poor	ASTM D-4066PA0110
***Polyamide 6.6 - Impact Mod. Heat Stabilized, UV Resistant (PA66HIRHS)**	230°F 110°C	-40°F -40°C	9,500	94-HB	N/A	N/A	Very Good	ASTM D-4066PA0161
***Polyamide 6.6 - Impact Mod. Heat Stabilized, UV Stabilized (PA66HIRHSUV)**	230°F 110°C	-40°F -40°C	8,900	94-HB	19	1 x 10^5 Rads	Very Good	ASTM D-4066PA0151
Polyamide 4.6 - Heat Stabilized (PA46)	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)	239°F 115°C	-40°F -40°C	3,400	94-HB	N/A	1 x 10^5 Rads	Good	ASTM D-4101PP0327
Polyamide 11 – UV Resistant (PA11)	203°F 95°C	-40°F -40°C	6,600	94-V2	N/A	1 x 10^5 Rads	Excellent	ASTM D-4000PA0321
***Polyamide 12 - UV resistant (PA12)**	203°F 95°C	-40°F -40°C	6,600	94-V2	N/A	1 x 10^5 Rads	Excellent	ASTM D-4066PA411
Ethlenterafluorineethylene (ETFE)	302°F 150°C	-112°F -80°C	5,800	94V-0	30	2 x 10^8 Rads	Oustanding	UL2043, ASTM D-3159 Type 1 Grade 1
Polyacetal (POM)	185°F 85°C	-40°F -40°C	6,500	94-HB	N/A	N/A	Excellent	-
Polyetheretherketone (PEEK)	500°F 260°C	-67°F -55°C	14,600	94V-0	24	1 x 10^9 Rads	Poor	21CFR 177.2415, EEC 93/9/EEC 151G
Thermoplastic Vulcanizate (TPV)	392°F 200°C	-50°F -45°C	n/a	94V-0	N/A	N/A	Excellent	-

** UV Resistant = Material contains less than 2% carbon or a UV additive to improve UV resistance.*

Material Performance Guide

ATTRIBUTE	POLYAMIDE 6.6 GENERAL PURPOSE	POLYAMIDE 6.6 HEAT STABILIZED	POLYAMIDE 6.6 UV RESISTANT	POLYAMIDE 6.6 - 2% CARBON UV RESISTANT	POLYAMIDE 6.6 FLAME RETARDANT V0	POLYAMIDE 6.6 IMPACT MODIFIED, HEAT STABILIZED UV RESISTANT	POLYAMIDE 6.6 IMPACT MODIFIED, HEAT STABILIZED UV STABILIZED	POLYAMIDE 4.6 HEAT STABILIZED	POLYPROPYLENE	POLYAMIDE 11	POLYAMIDE 12 UV RESISTANT	ETHLENTERAFLUORINE-ETHYLENE — ETFE	POLYACETAL	PEEK	TPV
Tensile Strength	8	8	8	9	7	8	7	10	2	6	6	5	5	10	-
High Temperature	2	3	2	2	2	3	2	9	2	1	1	10	3	10	10
Flammability	5	5	5	5	10	2	2	5	2	2	2	10	2	10	2
UV Resistance	1	1	5	7	1	7	2	1	5	8	8	10	9	1	1
Radiation	3	3	3	3	3	3	3	6	3	3	3	8	3	10	-
Chemical Resistance	6	6	6	6	6	6	6	6	8	8	8	10	-	10	-
- Hydrocarbons	8	8	8	8	8	8	8	8	6	8	8	10	8	10	4
- Chlorinated Hydrocarbons	6	6	6	6	6	6	6	6	3	8	8	10	5	10	4
- Acids	2	2	2	2	2	2	2	2	8	5	5	10	8	5	8
- Bases	8	6	6	6	6	6	6	6	8	6	6	10	8	10	8
- Salts	3	3	3	3	3	3	3	3	10	8	8	10	8	10	8
Relative Cost	Low	Low	Med	Med	Med	Med	Med	Med	Med	Med	Med	High	Med	High	Med

10 = Most Recommended
1 = Least Recommended

Optimum storage conditions for cable ties made of polyamide (PA)

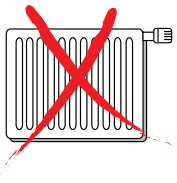
HellermannTyton cable ties and mounts are manufactured from high-quality polyamide (PA). This material is mainly processed using injection molding, but can also be extruded.

Polyamide is a hygroscopic material. This means that the material absorbs and loses moisture. For optimum handling of cable ties, it is important that the material is in a condition of equilibrium with a water content of approximately 2.5%.

The packaging used by HellermannTyton ensures that the water content in the material remains constant. Therefore, it is important to store the products in their original packaging to preserve the quality of the ties and mounts.

Once opened you should use the ties as quickly as possible.

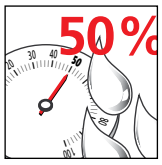
Do not expose the product to direct sunlight



Store the product away from direct sources of heat

Ideal storage conditions:

73 °F



50% relative humidity

BUNDLING AND SECURING SOLUTIONS

Cable Ties 9-15

Cable Ties - High Temperature 16-18

Cable Ties - Special Material 19-27

Cable Ties - Special Purpose 28-67

Clips 68-72

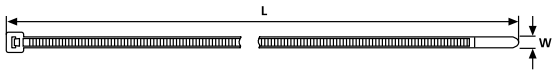
Grip Ties 73-75

Cable Tie Tools 76-90

Mounts 91-107

Standard Cable Ties
T18 - T30 Series - Natural and Black

Material Data	
Material	**Polyamide 6.6 (PA66)**
Operating Temperature	**-40 °F to +185 °F (-40 °C to +85 °C) continuous**
Flammability	**UL94 V2**



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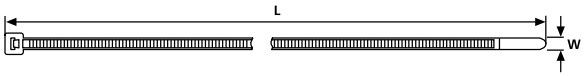
Product Selection

Article No.	Part No.	Type	US Gov. Designation	Min. Tensile Strength lbs.	(N)	Length (L) in.	(mm)	Max. Ø Bundle in.	(mm)	Width (W) in.	(mm)	Color	Pkg. Qty.
T18S													
111-02805	**T18S9C2**	T18S	–	18 lbs	(80)	3.27″	(83)	.63″	(16)	.09″	(2.3)	Natural	100
111-02809	**T18S9M4**	T18S	–	18 lbs	(80)	3.27″	(83)	.63″	(16)	.09″	(2.3)		1000
111-02810	**T18S0C2**	T18S	–	18 lbs	(80)	3.27″	(83)	.63″	(16)	.09″	(2.3)	Black	100
111-02811	**T18S0M4**	T18S	–	18 lbs	(80)	3.27″	(83)	.63″	(16)	.09″	(2.3)		1000
T18R													
112-01819	**T18R9C2**	T18R	MS3367-4-9	18 lbs	(80)	4″	(100)	.87″	(22)	.10″	(2.5)	Natural	100
111-01872	**T18R9M4**	T18R	MS3367-4-9	18 lbs	(80)	4″	(100)	.87″	(22)	.10″	(2.5)		1000
111-00405	**T18R0C2**	T18R	*	18 lbs	(80)	4″	(100)	.87″	(22)	.10″	(2.5)	Black	100
111-01841	**T18R0M4**	T18R	*	18 lbs	(80)	4″	(100)	.87″	(22)	.10″	(2.5)		1000
T18I													
111-02311	**T18I9C2**	T18I	–	18 lbs	(80)	5.51″	(140)	1.38″	(35)	.10″	(2.5)	Natural	100
111-02322	**T18I9M4**	T18I	–	18 lbs	(80)	5.51″	(140)	1.38″	(35)	.10″	(2.5)		1000
111-02308	**T18I0C2**	T18I	–	18 lbs	(80)	5.51″	(140)	1.38″	(35)	.10″	(2.5)	Black	100
111-02315	**T18I0M4**	T18I	–	18 lbs	(80)	5.51″	(140)	1.38″	(35)	.10″	(2.5)		1000
T18L													
111-02189	**T18L9C2**	T18L	–	18 lbs	(80)	8.0″	(205)	2.17″	(55)	.10″	(2.5)	Natural	100
111-02026	**T18L9M4**	T18L	–	18 lbs	(80)	8.0″	(205)	2.17″	(55)	.10″	(2.5)		1000
111-00401	**T18L0C2**	T18L	–	18 lbs	(80)	8.0″	(205)	2.17″	(55)	.10″	(2.5)	Black	100
111-02015	**T18L0M4**	T18L	–	18 lbs	(80)	8.0″	(205)	2.17″	(55)	.10″	(2.5)		1000
T30R													
112-03019	**T30R9C2**	T30R	MS3367-5-9	30 lbs	(135)	5.9″	(150)	1.38″	(35)	.14″	(3.5)	Natural	100
111-03047	**T30R9M4**	T30R	MS3367-5-9	30 lbs	(135)	5.9″	(150)	1.38″	(35)	.14″	(3.5)		1000
111-00438	**T30R0C2**	T30R	*	30 lbs	(135)	5.9″	(150)	1.38″	(35)	.14″	(3.5)	Black	100
111-03034	**T30R0M4**	T30R	*	30 lbs	(135)	5.9″	(150)	1.38″	(35)	.14″	(3.5)		1000
T30L													
111-03325	**T30L9C2**	T30L	–	30 lbs	(135)	7.48″	(190)	1.97″	(50)	.14″	(3.5)	Natural	100
111-03327	**T30L9M4**	T30L	–	30 lbs	(135)	7.48″	(190)	1.97″	(50)	.14″	(3.5)		1000
111-03313	**T30L0C2**	T30L	–	30 lbs	(135)	7.48″	(190)	1.97″	(50)	.14″	(3.5)	Black	100
111-03315	**T30L0M4**	T30L	–	30 lbs	(135)	7.48″	(190)	1.97″	(50)	.14″	(3.5)		1000
T30LL													
111-03515	**T30LL9C2**	T30LL	–	30 lbs	(135)	11.42″	(290)	3.15″	(80)	.14″	(3.5)	Natural	100
111-03517	**T30LL9M4**	T30LL	–	30 lbs	(135)	11.42″	(290)	3.15″	(80)	.14″	(3.5)		1000
111-03501	**T30LL0C2**	T30LL	–	30 lbs	(135)	11.42″	(290)	3.15″	(80)	.14″	(3.5)	Black	100
111-03511	**T30LL0M4**	T30LL	–	30 lbs	(135)	11.42″	(290)	3.15″	(80)	.14″	(3.5)		1000
T30XL													
111-02900	**T30XL9C2**	T30XL	–	30 lbs	(135)	14.37″	(365)	4.13″	(105)	.14″	(3.5)	Natural	100
111-02907	**T30XL9M4**	T30XL	–	30 lbs	(135)	14.37″	(365)	4.13″	(105)	.14″	(3.5)		1000
111-02901	**T30XL0C2**	T30XL	–	30 lbs	(135)	14.37″	(365)	4.13″	(105)	.14″	(3.5)	Black	100
111-02903	**T30XL0M4**	T30XL	–	30 lbs	(135)	14.37″	(365)	4.13″	(105)	.14″	(3.5)		1000

Installation tools - EVO7, MK7HT, MK7P, MK9, MK9HT, MK9P. MK9 and MK9P cannot be used with T18S cable ties.
Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.
* Military black available. Contact HellermannTyton for more information.

Standard Cable Ties
T40 - T50 Series - Natural and Black

Material Data	
Material	**Polyamide 6.6 (PA66)**
Operating Temperature	**-40 °F to +185 °F (-40 °C to +85 °C) continuous**
Flammability	**UL94 V2**



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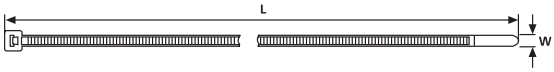
Product Selection

Article No.	Part No.	Type	US Gov. Designation	Min. Tensile Strength lbs.	Min. Tensile Strength (N)	Length (L) in.	Length (L) (mm)	Max. Ø Bundle in.	Max. Ø Bundle (mm)	Width (W) in.	Width (W) (mm)	Color	Pkg. Qty.
T40R													
112-04019	**T40R9C2**	T40R(U)	–	40 lbs	(178)	8.27″	(210)	2.16″	(55)	.16″	(4.0)	Natural	100
111-04131	**T40R9M4**	T40R(U)	–	40 lbs	(178)	8.27″	(210)	2.16″	(55)	.16″	(4.0)		1000
112-04060	**T40R0C2**	T40R(U)	–	40 lbs	(178)	8.27″	(210)	2.16″	(55)	.16″	(4.0)	Black	100
111-04122	**T40R0M4**	T40R(U)	–	40 lbs	(178)	8.27″	(210)	2.16″	(55)	.16″	(4.0)		1000
T40I													
111-04609	**T40I9C2**	T40I	–	40 lbs	(178)	11.42″	(290)	3.15″	(80)	.16″	(4.0)	Natural	100
111-04612	**T40I9M4**	T40I	–	40 lbs	(178)	11.42″	(290)	3.15″	(80)	.16″	(4.0)		1000
111-04600	**T40I0C2**	T40I	–	40 lbs	(178)	11.42″	(290)	3.15″	(80)	.16″	(4.0)	Black	100
111-04604	**T40I0M4**	T40I	–	40 lbs	(178)	11.42″	(290)	3.15″	(80)	.16″	(4.0)		1000
T40L													
111-04300	**T40L9C2**	T40L	–	40 lbs	(178)	14.4″	(365)	4.13″	(105)	.16″	(4.0)	Natural	100
111-04311	**T40L9M4**	T40L	–	40 lbs	(178)	14.4″	(365)	4.13″	(105)	.16″	(4.0)		1000
111-04301	**T40L0C2**	T40L	–	40 lbs	(178)	14.4″	(365)	4.13″	(105)	.16″	(4.0)	Black	100
111-04305	**T40L0M4**	T40L	–	40 lbs	(178)	14.4″	(365)	4.13″	(105)	.16″	(4.0)		1000
T50S													
111-05811	**T50S9C2**	T50S	–	50 lbs	(225)	5.9″	(150)	1.38″	(35)	.18″	(4.6)	Natural	100
111-05813	**T50S9M4**	T50S	–	50 lbs	(225)	5.9″	(150)	1.38″	(35)	.18″	(4.6)		1000
111-05806	**T50S0C2**	T50S	–	50 lbs	(225)	5.9″	(150)	1.38″	(35)	.18″	(4.6)	Black	100
111-05808	**T50S0M4**	T50S	–	50 lbs	(225)	5.9″	(150)	1.38″	(35)	.18″	(4.6)		1000
T50R													
112-05019	**T50R9C2**	T50R	MS3367-1-9	50 lbs	(225)	7.9″	(200)	1.97″	(50)	.18″	(4.6)	Natural	100
111-04862	**T50R9M4**	T50R	MS3367-1-9	50 lbs	(225)	7.9″	(200)	1.97″	(50)	.18″	(4.6)		1000
111-04878	**T50R0C2**	T50R	*	50 lbs	(225)	7.9″	(200)	1.97″	(50)	.18″	(4.6)	Black	100
111-04846	**T50R0M4**	T50R	*	50 lbs	(225)	7.9″	(200)	1.97″	(50)	.18″	(4.6)		1000
T50I													
112-05219	**T50I9C2**	T50I	MS3367-7-9	50 lbs	(225)	11.8″	(300)	3.35″	(85)	.18″	(4.6)	Natural	100
111-05230	**T50I9M4**	T50I	MS3367-7-9	50 lbs	(225)	11.8″	(300)	3.35″	(85)	.18″	(4.6)		1000
111-00444	**T50I0C2**	T50I	*	50 lbs	(225)	11.8″	(300)	3.35″	(85)	.18″	(4.6)	Black	100
111-05216	**T50I0M4**	T50I	*	50 lbs	(225)	11.8″	(300)	3.35″	(85)	.18″	(4.6)		1000
T50L													
112-05419	**T50L9C2**	T50L	MS3367-2-9	50 lbs	(225)	15.35″	(390)	4.33″	(110)	.18″	(4.6)	Natural	100
111-05449	**T50L9M4**	T50L	MS3367-2-9	50 lbs	(225)	15.35″	(390)	4.33″	(110)	.18″	(4.6)		1000
111-00445	**T50L0C2**	T50L	*	50 lbs	(225)	15.35″	(390)	4.33″	(110)	.18″	(4.6)	Black	100
111-00504	**T50L0M4**	T50L	*	50 lbs	(225)	15.35″	(390)	4.33″	(110)	.18″	(4.6)		1000

Installation tools - EVO7, MK7HT, MK7P, MK9, MK9HT, MK9P. Dimensions are approximate and subject to technical changes.
Use **Part No.** for ordering and **Type** for specification purposes.
* Military black available. Contact HellermannTyton for more information.

Standard Cable Ties
T18R and T30R Series - Colors



Material Data	
Material	**Polyamide 6.6 (PA66)**
Operating Temperature	**-40 °F to +185 °F (-40 °C to +85 °C) continuous**
Flammability	**UL94 V2**

RoHS

File# E64139 *File# E64139*

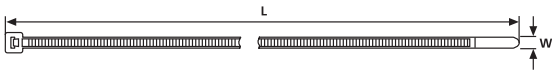
Product Selection

Article No.	Part No.	Type	Min. Tensile Strength lbs.	(N)	Length (L) in.	(mm)	Max. Ø Bundle in.	(mm)	Width (W) in.	(mm)	Color	Pkg. Qty.
T18R												
116-01811	**T18R1C2**	T18R	18 lbs	(80)	4″	(100)	.87″	(22)	.10″	(2.5)	Brown	100
111-01849	**T18R1M4**	T18R	18 lbs	(80)	4″	(100)	.87″	(22)	.10″	(2.5)		1000
111-01880	**T18R2C2**	T18R	18 lbs	(80)	4″	(100)	.87″	(22)	.10″	(2.5)	Red	100
111-01882	**T18R2M4**	T18R	18 lbs	(80)	4″	(100)	.87″	(22)	.10″	(2.5)		1000
116-01813	**T18R3C2**	T18R	18 lbs	(80)	4″	(100)	.87″	(22)	.10″	(2.5)	Orange	100
111-01877	**T18R3M4**	T18R	18 lbs	(80)	4″	(100)	.87″	(22)	.10″	(2.5)		1000
111-01896	**T18R4C2**	T18R	18 lbs	(80)	4″	(100)	.87″	(22)	.10″	(2.5)	Yellow	100
111-01898	**T18R4M4**	T18R	18 lbs	(80)	4″	(100)	.87″	(22)	.10″	(2.5)		1000
111-01853	**T18R5C2**	T18R	18 lbs	(80)	4″	(100)	.87″	(22)	.10″	(2.5)	Green	100
111-01855	**T18R5M4**	T18R	18 lbs	(80)	4″	(100)	.87″	(22)	.10″	(2.5)		1000
111-01842	**T18R6C2**	T18R	18 lbs	(80)	4″	(100)	.87″	(22)	.10″	(2.5)	Blue	100
111-01845	**T18R6M4**	T18R	18 lbs	(80)	4″	(100)	.87″	(22)	.10″	(2.5)		1000
116-01817	**T18R7C2**	T18R	18 lbs	(80)	4″	(100)	.87″	(22)	.10″	(2.5)	Purple	100
111-01888	**T18R7M4**	T18R	18 lbs	(80)	4″	(100)	.87″	(22)	.10″	(2.5)		1000
111-01857	**T18R8C2**	T18R	18 lbs	(80)	4″	(100)	.87″	(22)	.10″	(2.5)	Gray	100
111-01859	**T18R8M4**	T18R	18 lbs	(80)	4″	(100)	.87″	(22)	.10″	(2.5)		1000
116-01819	**T18R10C2**	T18R	18 lbs	(80)	4″	(100)	.87″	(22)	.10″	(2.5)	White	100
111-01892	**T18R10M4**	T18R	18 lbs	(80)	4″	(100)	.87″	(22)	.10″	(2.5)		1000
T30R												
116-03011	**T30R1C2**	T30R	30 lbs	(135)	5.9″	(150)	1.38″	(35)	.14″	(3.5)	Brown	100
111-03038	**T30R1M4**	T30R	30 lbs	(135)	5.9″	(150)	1.38″	(35)	.14″	(3.5)		1000
116-03012	**T30R2C2**	T30R	30 lbs	(135)	5.9″	(150)	1.38″	(35)	.14″	(3.5)	Red	100
111-03056	**T30R2M4**	T30R	30 lbs	(135)	5.9″	(150)	1.38″	(35)	.14″	(3.5)		1000
116-03013	**T30R3C2**	T30R	30 lbs	(135)	5.9″	(150)	1.38″	(35)	.14″	(3.5)	Orange	100
111-03052	**T30R3M4**	T30R	30 lbs	(135)	5.9″	(150)	1.38″	(35)	.14″	(3.5)		1000
116-03014	**T30R4C2**	T30R	30 lbs	(135)	5.9″	(150)	1.38″	(35)	.14″	(3.5)	Yellow	100
111-03065	**T30R4M4**	T30R	30 lbs	(135)	5.9″	(150)	1.38″	(35)	.14″	(3.5)		1000
116-03015	**T30R5C2**	T30R	30 lbs	(135)	5.9″	(150)	1.38″	(35)	.14″	(3.5)	Green	100
111-03041	**T30R5M4**	T30R	30 lbs	(135)	5.9″	(150)	1.38″	(35)	.14″	(3.5)		1000
116-03016	**T30R6C2**	T30R	30 lbs	(135)	5.9″	(150)	1.38″	(35)	.14″	(3.5)	Blue	100
111-03036	**T30R6M4**	T30R	30 lbs	(135)	5.9″	(150)	1.38″	(35)	.14″	(3.5)		1000
116-03017	**T30R7C2**	T30R	30 lbs	(135)	5.9″	(150)	1.38″	(35)	.14″	(3.5)	Purple	100
111-03062	**T30R7M4**	T30R	30 lbs	(135)	5.9″	(150)	1.38″	(35)	.14″	(3.5)		1000
116-03018	**T30R8C2**	T30R	30 lbs	(135)	5.9″	(150)	1.38″	(35)	.14″	(3.5)	Gray	100
111-03061	**T30R8M4**	T30R	30 lbs	(135)	5.9″	(150)	1.38″	(35)	.14″	(3.5)		1000
116-03019	**116-03019**	T30R	30 lbs	(135)	5.9″	(150)	1.38″	(35)	.14″	(3.5)	White	100
116-03064	**T30R10M4**	T30R	30 lbs	(135)	5.9″	(150)	1.38″	(35)	.14″	(3.5)		1000

Installation tools - EVO7, MK7HT, MK7P, MK9, MK9HT, MK9P. MK9 and MK9P cannot be used with T18S cable ties.

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

Standard Cable Ties
T50R and T50L Series - Colors



Material Data	
Material	**Polyamide 6.6 (PA66)**
Operating Temperature	**-40 °F to +185 °F (-40 °C to +85 °C) continuous**
Flammability	**UL94 V2**

RoHS

File# E64139 *File# E64139*

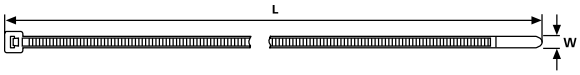
Product Selection

Article No.	Part No.	Type	Min. Tensile Strength lbs.	(N)	Length (L) in.	(mm)	Max. Ø Bundle in.	(mm)	Width (W) in.	(mm)	Color	Pkg. Qty.
T50R												
116-05011	**T50R1C2**	T50R	50 lbs	(225)	7.9″	(200)	1.97″	(50)	.18″	(4.6)	Brown	100
111-04852	**T50R1M4**	T50R	50 lbs	(225)	7.9″	(200)	1.97″	(50)	.18″	(4.6)		1000
116-05012	**T50R2C2**	T50R	50 lbs	(225)	7.9″	(200)	1.97″	(50)	.18″	(4.6)	Red	100
111-04868	**T50R2M4**	T50R	50 lbs	(225)	7.9″	(200)	1.97″	(50)	.18″	(4.6)		1000
116-05013	**T50R3C2**	T50R	50 lbs	(225)	7.9″	(200)	1.97″	(50)	.18″	(4.6)	Orange	100
111-04865	**T50R3M4**	T50R	50 lbs	(225)	7.9″	(200)	1.97″	(50)	.18″	(4.6)		1000
116-05014	**T50R4C2**	T50R	50 lbs	(225)	7.9″	(200)	1.97″	(50)	.18″	(4.6)	Yellow	100
111-04892	**T50R4M4**	T50R	50 lbs	(225)	7.9″	(200)	1.97″	(50)	.18″	(4.6)		1000
116-05015	**T50R5C2**	T50R	50 lbs	(225)	7.9″	(200)	1.97″	(50)	.18″	(4.6)	Green	100
111-04854	**T50R5M4**	T50R	50 lbs	(225)	7.9″	(200)	1.97″	(50)	.18″	(4.6)		1000
116-05016	**T50R6C2**	T50R	50 lbs	(225)	7.9″	(200)	1.97″	(50)	.18″	(4.6)	Blue	100
111-04849	**T50R6M4**	T50R	50 lbs	(225)	7.9″	(200)	1.97″	(50)	.18″	(4.6)		1000
116-05017	**T50R7C2**	T50R	50 lbs	(225)	7.9″	(200)	1.97″	(50)	.18″	(4.6)	Purple	100
111-04877	**T50R7M4**	T50R	50 lbs	(225)	7.9″	(200)	1.97″	(50)	.18″	(4.6)		1000
111-04870	**T50R8C2**	T50R	50 lbs	(225)	7.9″	(202)	1.97″	(50)	.18″	(4.6)	Gray	100
111-04872	**T50R8M4**	T50R	50 lbs	(225)	7.9″	(200)	1.97″	(50)	.18″	(4.6)		1000
116-05019	**T50R10C2**	T50R	50 lbs	(225)	7.9″	(200)	1.97″	(50)	.18″	(4.6)	White	100
111-04879	**T50R10M4**	T50R	50 lbs	(225)	7.9″	(200)	1.97″	(50)	.18″	(4.6)		1000
T50L												
111-05443	**T50L1C2**	T50L	50 lbs	(225)	15.35″	(390)	4.33″	(110)	.18″	(4.6)	Brown	100
111-05444	**T50L1M4**	T50L	50 lbs	(225)	15.35″	(390)	4.33″	(110)	.18″	(4.6)		1000
111-05457	**T50L2C2**	T50L	50 lbs	(225)	15.35″	(390)	4.33″	(110)	.18″	(4.6)	Red	100
111-05458	**T50L2M4**	T50L	50 lbs	(225)	15.35″	(390)	4.33″	(110)	.18″	(4.6)		1000
111-05451	**T50L3C2**	T50L	50 lbs	(225)	15.35″	(390)	4.33″	(110)	.18″	(4.6)	Orange	100
111-05454	**T50L3M4**	T50L	50 lbs	(225)	15.35″	(390)	4.33″	(110)	.18″	(4.6)		1000
111-05467	**T50L4C2**	T50L	50 lbs	(225)	15.35″	(390)	4.33″	(110)	.18″	(4.6)	Yellow	100
111-05468	**T50L4M4**	T50L	50 lbs	(225)	15.35″	(390)	4.33″	(110)	.18″	(4.6)		1000
111-05445	**T50L5C2**	T50L	50 lbs	(225)	15.35″	(390)	4.33″	(110)	.18″	(4.6)	Green	100
111-00502	**T50L5M4**	T50L	50 lbs	(225)	15.35″	(390)	4.33″	(110)	.18″	(4.6)		1000
111-05431	**T50L6C2**	T50L	50 lbs	(225)	15.35″	(390)	4.33″	(110)	.18″	(4.6)	Blue	100
111-05434	**T50L6M4**	T50L	50 lbs	(225)	15.35″	(390)	4.33″	(110)	.18″	(4.6)		1000
111-05464	**T50L7C2**	T50L	50 lbs	(225)	15.35″	(390)	4.33″	(110)	.18″	(4.6)	Purple	100
111-00503	**T50L7M4**	T50L	50 lbs	(225)	15.35″	(390)	4.33″	(110)	.18″	(4.6)		1000
111-05461	**T50L8C2**	T50L	50 lbs	(225)	15.35″	(390)	4.33″	(110)	.18″	(4.6)	Gray	100
111-05462	**T50L8M4**	T50L	50 lbs	(225)	15.35″	(390)	4.33″	(110)	.18″	(4.6)		1000
111-05466	**T50L10C2**	T50L	50 lbs	(225)	15.35″	(390)	4.33″	(110)	.18″	(4.6)	White	100
111-05465	**T50L10M4**	T50L	50 lbs	(225)	15.35″	(390)	4.33″	(110)	.18″	(4.6)		1000

Installation tools - EVO7, MK7HT, MK7P, MK9, MK9HT, MK9P. MK9 and MK9P cannot be used with T18S cable ties.

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

Heavy Duty Cable Ties



Material Data	
Material	**Polyamide 6.6 (PA66)**
Operating Temperature	**-40 °F to +185 °F (-40 °C to +85 °C) continuous**
Flammability	**UL94 V2**

RoHS

T120 Series

File# E64139 *File# E64139*

Product Selection

Article No.	Part No.	Type	US Gov. Designation	Min. Tensile Strength lbs.	(N)	Length (L) in.	(mm)	Max. Ø Bundle in.	(mm)	Width (W) in.	(mm)	Color	Pkg. Qty.
T120S													
111-12819	**T120S9K2**	T120S	–	120 lbs	(535)	8.85″	(225)	2.17″	(55)	.30″	(7.6)	Natural	50
111-12813	**T120S9H4**	T120S	–	120 lbs	(535)	8.85″	(225)	2.17″	(55)	.30″	(7.6)		500
111-12803	**T120S0K2**	T120S	–	120 lbs	(535)	8.85″	(225)	2.17″	(55)	.30″	(7.6)	Black	50
111-12808	**T120S0H4**	T120S	–	120 lbs	(535)	8.85″	(225)	2.17″	(55)	.30″	(7.6)		500
T120I													
111-12211	**T120I9K2**	T120I	–	120 lbs	(535)	11.81″	(300)	3.15″	(80)	.30″	(7.6)	Natural	50
111-12213	**T120I9H4**	T120I	–	120 lbs	(535)	11.81″	(300)	3.15″	(80)	.30″	(7.6)		500
111-12201	**T120I0K2**	T120I	–	120 lbs	(535)	11.81″	(300)	3.15″	(80)	.30″	(7.6)	Black	50
111-12206	**T120I0H4**	T120I	–	120 lbs	(535)	11.81″	(300)	3.15″	(80)	.30″	(7.6)		500
T120R													
112-12019	**T120R9K2**	T120R	MS3367-3-9	120 lbs	(535)	15.24″	(387)	4.13″	(105)	.30″	(7.6)	Natural	50
111-12036	**T120R9H4**	T120R	MS3367-3-9	120 lbs	(535)	15.24″	(387)	4.13″	(105)	.30″	(7.6)		500
112-12060	**T120R0K2**	T120R	*	120 lbs	(535)	15.24″	(387)	4.13″	(105)	30″	(7.6)	Black	50
111-12013	**T120R0H4**	T120R	*	120 lbs	(535)	15.24″	(387)	4.13″	(105)	.30″	(7.6)		500
T120L													
111-12419	**T120L9K2**	T120L	MS3367-6-9	120 lbs	(535)	30.0″	(760)	8.85″	(225)	.30″	(7.6)	Natural	50
111-12405	**T120L0K2**	T120L	*	120 lbs	(535)	30.0″	(760)	8.85″	(225)	.30″	(7.6)	Black	50

Installation tools - MK9, MK9HT, MK9P. Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes. *Military black available. Contact HellermannTyton for more information.

T150 Series

File# E64139

Product Selection

Article No.	Part No.	Type	US Gov. Designation	Min. Tensile Strength lbs.	(N)	Length (L) in.	(mm)	Max. Ø Bundle in.	(mm)	Width (W) in.	(mm)	Color	Pkg. Qty.
T150R													
111-15203	**T150R9X2**	T150R(U)	–	175 lbs	(780)	15.35″	(390)	4.13″	(105)	.35″	(8.8)	Natural	25
111-15200	**T150R0X2**	T150R(U)	–	175 lbs	(780)	15.35″	(390)	4.13″	(105)	.35″	(8.8)	Black	25
T150M													
111-15619	**T150M9X2**	T150M	–	175 lbs	(780)	21.00″	(530)	5.91″	(150)	.35″	(8.9)	Natural	25
111-00124	**T150M0X2**	T150M	–	175 lbs	(780)	21.00″	(530)	5.91″	(150)	.35″	(8.9)	Black	25
T150L													
111-15419	**T150L9X2**	T150L	–	175 lbs	(780)	32.28″	(820)	9.65″	(245)	.35″	(8.9)	Natural	25
111-15405	**T150L0X2**	T150L	–	175 lbs	(780)	32.28″	(820)	9.65″	(245)	.35″	(8.9)	Black	25
T150LL													
111-15719	**T150LL9X2**	T150LL	–	175 lbs	(780)	36.42″	(925)	10.83″	(275)	.35″	(8.9)	Natural	25
111-15700	**T150LL0X2**	T150LL	–	175 lbs	(780)	36.42″	(925)	10.83″	(275)	.35″	(8.9)	Black	25
T150XL													
111-15519	**T150XL9X2**	T150XL	–	175 lbs	(780)	43.11″	(1095)	13.00″	(330)	.35″	(8.9)	Natural	25
111-15500	**T150XL0X2**	T150XL	–	175 lbs	(780)	43.11″	(1095)	13.00″	(330)	.35″	(8.9)	Black	25
T150XLL													
111-15304	**T150XLL9X2**	T150XLL	–	175 lbs	(780)	52.17″	(1325)	15.95″	(405)	.35″	(8.9)	Natural	25
111-15300	**T150XLL0X2**	T150XLL	–	175 lbs	(780)	52.17″	(1325)	15.95″	(405)	.35″	(8.9)	Black	25

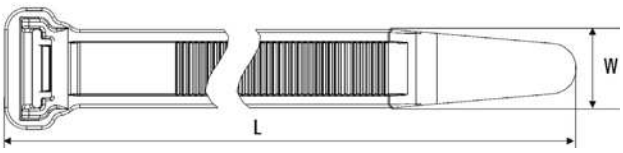
Installation tools - MK9, MK9HT, MK9P. Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

Wide Strap Heavy Duty Cable Ties

The wide strap cable tie minimizes pinching on soft bundles and features a low profile head to provide compact bundling. A thinner strap provides increased flexibility for improved ergonomics

- Designed to minimize pinching of soft hoses and convoluted tubing
- Low profile head
- Clamping rails on the bottom of head to increase grip on round bundles
- Large bundle diameter range: .375" - 4.125" (9.5mm - 104.7mm)
- Flexible strap with bent tip for quick insertion into mounts

Material Data	
Material	**Polyamide 6.6 impact modified, Heat Stabilized, UV Resistant (PA66HIRHS)**
Operating Temperature	**-40 °F to +230 °F (-40 °C to +110 °C) continuous**
Flammability	**UL94 HB**



Product Selection

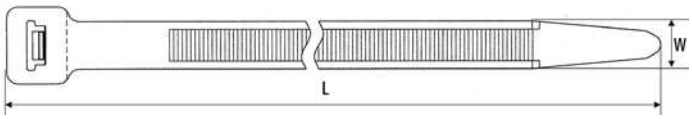
Article No.	Part No.	Type	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Ø Bundle in. (mm)	Width (W) in. (mm)	Color	Pkg. Qty.
111-12300	**111-12300**	WSS	120 lbs (534)	9.1″ (231.14)	2.25″ (57.15)	.5″ (12.7)	Black	300
111-12301	**111-12301**	WSI	120 lbs (534)	12.1″ (307.34)	3.25″ (82.55)	.5″ (12.7)	Black	300
111-12302	**111-12302**	WSR	120 lbs (534)	15.1″ (383.54)	4.125″ (104.78)	.5″ (12.7)	Black	300

Installation tools - MK9, MK9HT, MK9P. Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

T255 Series Heavy Duty Cable Ties

HellermannTyton's T255 series heavy duty cable ties are ideal for bundles requiring a strong cable tie that may also require a higher temperature rating than the T250 series. These ties have a tensile strength of 250 lbs.

Material Data	
Material	**Polyamide 6.6 impact modified, Heat Stabilized, UV Resistant (PA66HIRHS)**
Operating Temperature	**-40 °F to +230 °F (-40 °C to +110 °C) continuous**
Flammability	**UL94 HB**



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Product Selection

Article No.	Part No.	Type	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Ø Bundle in. (mm)	Width (W) in. (mm)	Color	Pkg. Qty.
111-25500	**T255S0HIRX2**	T255S	250 lbs (1115)	8.86″ (225)	2.16″ (55)	.49″ (12.5)	Black	25
111-25400	**T255R0HIRX2**	T255R	250 lbs (1115)	20.28″ (520)	5.71″ (145)	.49″ (12.5)	Black	25
111-25300	**T255M0HIRX2**	T255M	250 lbs (1115)	22.05″ (565)	6.30″ (160)	.49″ (12.5)	Black	25

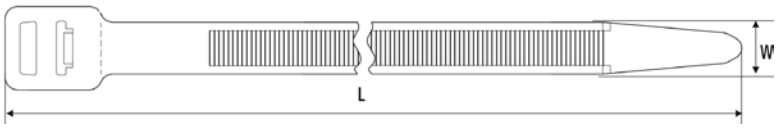
Installation tools - MK9, MK9HT, MK9P. Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

Heavy Duty Cable Ties
T250 Series

These cable ties offer a high minimum tensile strength and have a buckle feature which allows the end of the cable tie to be tucked away if necessary. The buckle also snaps into HellermannTyton lashing tie mounts (LTM).

T250 heavy duty cable tie and lashing tie mount application

Material Data	
Material	**Polyamide 6.6 (PA66)**
Operating Temperature	**-40 °F to +185 °F (-40 °C to +85 °C) continuous**
Flammability	**UL94 V2**



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Product Selection

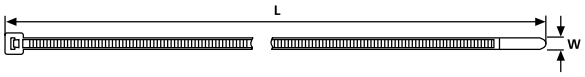
Article No.	Part No.	Type	Min. Tensile Strength lbs.	(N)	Length (L) in.	(mm)	Max. Ø Bundle in.	(mm)	Width (W) in.	(mm)	Color	Pkg. Qty.
T250S												
111-24702	**T250S9X2**	T250S	250 lbs	(1115)	9.05″	(230)	2.17″	(55)	.49″	(12.5)	Natural	25
111-24700	**T250S0X2**	T250S	250 lbs	(1115)	9.05″	(230)	2.17″	(55)	.49″	(12.5)	Black	25
T250R												
111-24803	**T250R9X2**	T250R	250 lbs	(1115)	20.47″	(520)	5.71″	(145)	.49″	(12.5)	Natural	25
111-24801	**T250R0X2**	T250R	250 lbs	(1115)	20.47″	(520)	5.71″	(145)	.49″	(12.5)	Black	25
T250M												
111-25002	**T250M9X2**	T250M	250 lbs	(1115)	22.24″	(565)	5.90″	(150)	.49″	(12.5)	Natural	25
111-25001	**T250M0X2**	T250M	250 lbs	(1115)	22.24″	(565)	5.90″	(150)	.49″	(12.5)	Black	25
T250I												
111-25219	**T250I9X2**	T250I	250 lbs	(1115)	28.54″	(725)	8.00″	(203)	.49″	(12.5)	Natural	25
111-00507	**T250I0X2**	T250I	250 lbs	(1115)	28.54″	(725)	8.00″	(203)	.49″	(12.5)	Black	25
T250L												
111-00436	**T250L9X2**	T250L	250 lbs	(1115)	34.65″	(880)	10.00″	(254)	.49″	(12.5)	Natural	25
111-24601	**T250L0X2**	T250L	250 lbs	(1115)	34.65″	(880)	10.00″	(254)	.49″	(12.5)	Black	25
T250XL												
111-00466	**T250XL9X2**	T250XL	250 lbs	(1115)	40.55″	(1030)	12.00″	(305)	.49″	(12.5)	Natural	25
111-25200	**T250XL0X2**	T250XL	250 lbs	(1115)	40.55″	(1030)	12.00″	(305)	.49″	(12.5)	Black	25

Installation tools - MK9, MK9HT, MK9P. Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

T18 - T120 Series - Heat Stabilized

HellermannTyton's heat stabilized cable ties provide excellent resistance when exposed to high heat.

Material Data	
Material	**Polyamide 6.6 heat stabilized (PA66HS)**
Operating Temperature	**-40 °F to +257 °F (-40 °C to +125 °C) continuous**
Flammability	**UL94 V2**



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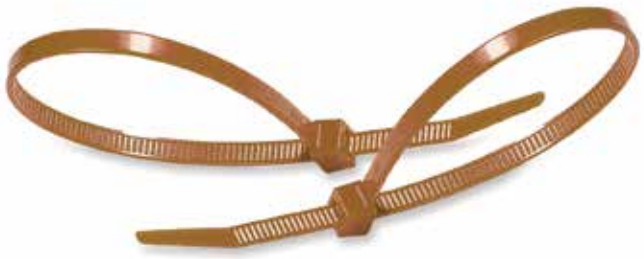
Product Selection

Article No.	Part No.	Type	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Ø Bundle in. (mm)	Width (W) in. (mm)	Color	Pkg. Qty.
T18S								
111-02815	**T18S0HSM4**	T18S	18 lbs (80)	3.27″ (83)	.63″ (16)	.09″ (2.3)	Black	1000
T18R								
111-01905	**T18R0HSC2**	T18R	18 lbs (80)	4″ (100)	.87″ (22)	.10″ (2.5)	Black	100
111-00476	**T18R0HSM4**	T18R	18 lbs (80)	4″ (100)	.87″ (22)	.10″ (2.5)	Black	1000
T18I								
111-02305	**T18I0HSM4**	T18I	18 lbs (80)	5.5″ (140)	1.38″ (35)	.10″ (2.5)	Black	1000
T18L								
111-00403	**T18L0HSC2**	T18L	18 lbs (80)	8.0″ (205)	2.17″ (55)	.10″ (2.5)	Black	100
111-00404	**T18L0HSM4**	T18L	18 lbs (80)	8.0″ (205)	2.17″ (55)	.10″ (2.5)	Black	1000
T30R								
111-03067	**T30R0HSC2**	T30R	30 lbs (135)	5.9″ (150)	1.38″ (35)	.14″ (3.5)	Black	100
111-03068	**T30R0HSM4**	T30R	30 lbs (135)	5.9″ (150)	1.38″ (35)	.14″ (3.5)	Black	1000
T50R								
111-04900	**T50R0HSC2**	T50R	50 lbs (225)	7.9″ (200)	1.97″ (50)	.18″ (4.6)	Black	100
111-04901	**T50R0HSM4**	T50R	50 lbs (225)	7.9″ (200)	1.97″ (50)	.18″ (4.6)	Black	1000
T50I								
111-05248	**T50I0HSC2**	T50I	50 lbs (225)	11.8″ (300)	3.35″ (85)	.18″ (4.6)	Black	100
111-05251	**T50I0HSM4**	T50I	50 lbs (225)	11.8″ (300)	3.35″ (85)	.18″ (4.6)	Black	1000
T50L								
111-05470	**T50L0HSC2**	T50L	50 lbs (225)	15.35″ (390)	4.33″ (110)	.18″ (4.6)	Black	100
111-05471	**T50L0HSM4**	T50L	50 lbs (225)	15.35″ (390)	4.33″ (110)	.18″ (4.6)	Black	1000
T120R								
111-12061	**T120R0HSK2**	T120R	120 lbs (535)	15.24″ (387)	4.13″ (105)	.30″ (7.6)	Black	50
111-12058	**T120R0HSH4**	T120R	120 lbs (535)	15.24″ (387)	4.13″ (105)	.30″ (7.6)	Black	500

Installation tools - EVO7, MK7HT, MK7P, MK9, MK9HT, MK9P. MK9 and MK9P cannot be used with T18S cable ties.
Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

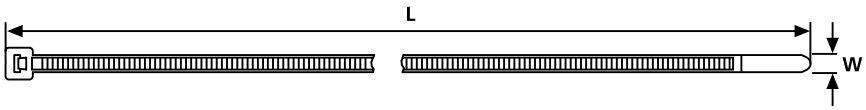
PA46 Ties

HellermannTyton's high temperature cable ties provide excellent resistance in operating temperatures up to 275°F (135°C), while still maintaining tensile strength properties.



Material Data	
Material	**Polyamide 4.6 (PA46)**
Operating Temperature	**-40 °F to +275 °F (-40 °C to +135 °C) continuous**
Flammability	**UL94 V2**

RoHS



Product Selection

Article No.	Part No.	Type	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max Ø Bundle in. (mm)	Width (W) in. (mm)	Color	Pkg. Qty.
111-01836	**T18R1STNLM5**	T18R1STNLM5	18 lbs. (80)	4" (100)	.87" (22)	.10" (2.5)	Brown	100
111-01269	**T30R1STNLM4**	T30R1STNLM4	30 lbs. (135)	5.9" (150)	1.38" (35)	.14" (3.5)	Brown	100
111-04839	**T50R1STNLM5**	T50R1STNLM5	50 lbs. (225)	7.9" (200)	1.97" (50)	.18" (4.6)	Brown	100
111-05423	**T50L1STNLM4**	T50L1STNLM4	50 lbs. (225)	15.3" (390)	4.33" (110)	.18" (4.6)	Brown	100

Installation tools - EVO7, MK7HT, MK7P, MK9, MK9HT, MK9P. MK9 and MK9P cannot be used with T18S cable ties.
Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

PAEK High-Heat Cable Management Solutions

PAEK Cable Ties

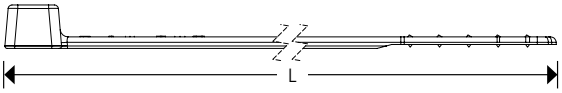
HellermannTyton PAEK cable ties offer very high temperature resistance for use in demanding applications such as in engine compartments, near exhaust components, and in enclosed industrial cabinets. PAEK ties are inside serrated and feature a high performance design that, along with the material, offer extremely high tensile strength for demanding applications.

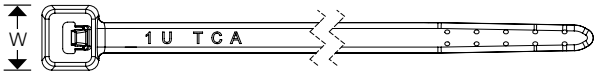
Material Data

Material	**Polyaryletherketone (PAEK)**
Operating Temperature	**-67°F to +392°F (-55°C to +200°C)**
Flammability	**UL94 V0**

Material Features & Benefits

- Very high heat resistance up to 200°C (392°F).
- PAEK material has double the tensile strength of nylon.
- Very good chemical resistance against hydrocarbons.





Product Selection

Article No.	Part No.	Type	Min. Tensile Strength lbs. (N)	Length (L) in. (mm)	Max. Bundle Ø in. (mm)	Width (W) in. (mm)	Color	Pkg. Qty
111-01670	111-01670	PAT100R	100.0 (445)	5.9 (150.5)	1.38 (35.0)	0.33 (8.4)	Beige (BGE)	100
111-01699	111-01699	PAT100L	100.0 (445)	7.9 (200.6)	2.0 (50.8)	0.33 (8.4)	Beige (BGE)	100

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

PAEK Fir Tree Mount and Cable Tie Assembly

High heat resistant fir tree and cable tie assemblies provide a secure grip in mounting holes. The mount provides low insertion and high extraction force and slides along the cable tie for the proper orientation. Sold as an assembly with the cable tie and mount.

Material Data

Material	**Polyaryletherketone (PAEK)**
Operating Temperature	**-67°F to +392°F (-55°C to +200°C)**
Flammability	**UL94 V0**

Features and Benefits

- Fir tree push mount offers simple and easy to use method of bundling and fixing cable ties.
- Fir tree design ensures a positive secure fixing into panels with thicknesses from 1.25 mm to 6.0 mm or threaded blind holes.
- High heat resistance offers maximum performance on both fixing surface and area near bundle.

Product Selection

					Cable Tie		Mount						
Article No.	Part No.	Type	Min. Tensile Strength lbs. (N)	Max. Bundle Ø in. (mm)	Length (L) in. (mm)	Width (W) in. (mm)	Disc Ø in. (mm)	Length (L2) in. (mm)	Length (L3) in. (mm)	Width (W3) in. (mm)	Height (H2) in. (mm)	Color	Pkg. Qty
156-01555	156-01555	PAT100RFT6LG	100.0 (445)	1.38 (35)	5.9 (150.5)	0.33 (8.4)	0.73 (18.6)	0.35 (9.0)	0.75 (19.2)	0.2 (5)	0.50 (12.6)	Beige (BGE)	500
156-01513	156-01513	PAT100LFT6LG	100.0 (445)	1.97 (50)	7.9 (200.6)	0.33 (8.4)	0.73 (18.6)	0.35 (9.0)	0.75 (19.2)	0.2 (5)	0.50 (12.6)	Beige (BGE)	500

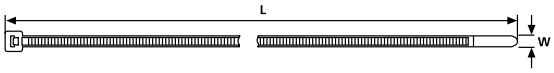
Use Part No. for ordering and Type for specification purposes.

UV Stabilized Cable Ties

Used in the solar industry and other applications, HellermannTyton offers cable ties made of UV stabilized PA66UV material. This provides additional protection against UV radiation for long-term outdoor use and is available in various styles, tensile strengths and bundle diameters.

Material Data

Material	**Polyamide 6.6 – 2% Carbon UV Stabilized (OUV)**
Operating Temperature	**-40 °F to +185 °F (-40 °C to +85 °C) continuous**
Flammability	**UL94 V2**



Product Selection

Article No.	Part No.	Type	Min. Tensile Strength	Length	Max Bundle	Width	Color	Pkg. Qty
			lbs. (N)	in. (mm)	in. (mm)	in. (mm)		
111-03075	T30R0UVC2	T30R	30 (135)	5.9 (150)	1.38 (35)	.14 (3.5)	Black	100
111-04912	T50R0UVC2	T50R	50 (225)	7.9 (200)	1.97 (50)	.18 (4.6)	Black	100
111-05477	T50L0UVC2	T50L	50 (225)	15.35 (390)	4.33 (110)	.18 (4.6)	Black	100
111-00400	T120R0UVC2	T120R	120 (535)	15.24 (387)	4.13 (105)	.30 (7.6)	Black	100

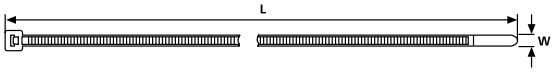
Installation tools - EVO7, MK7HT, MK7P, MK9, MK9HT, MK9P. MK9 and MK9P cannot be used with T18S cable ties.
Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

Heat/UV Stabilized Nylon 6.6 Cable Ties

Manufactured from a specially-formulated impact-resistant, heat and UV stabilized PA6.6 material, these cable ties offer increased flexibility, impact strength, heat and UV resistance to endure moisture fluctuations. These cable ties feature inside serrations providing a positive hold onto wire and cable bundles. The head design guarantees high tensile strength, as well as a low insertion force. The bent tail allows for quick and simple installation by hand.

Material Data

Material	**Polyamide 6.6 – High Impact Modified, Heat and UV Stabilized (PA66HIRHSUV)**
Operating Temperature	**-40 °F to +230 °F (-40 °C to +110 °C) continuous**
Flammability	**UL94 HB**



Product Selection

Article No.	Part No.	Type	Min. Tensile Strength	Length	Max Bundle	Width	Color	Pkg. Qty
			lbs. (N)	in. (mm)	in. (mm)	in. (mm)		
111-03066	T30R0HIRM4	T30R	30 (135)	6.0" (150)	1.4" (35)	0.14" (3.6)	Black	1000
111-01566	T50R0HIRM4	T50R	50 (225)	8.0" (202)	2.0" (50)	0.18" (4.6)	Black	1000
111-01128	111-01128	T50L	50 (225)	15.0" (390)	4.3" (110)	0.19" (4.7)	Black	1000

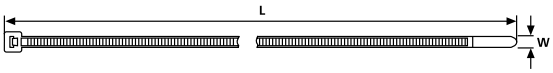
Installation tools - EVO7, MK7HT, MK7P, MK9, MK9HT, MK9P. MK9 and MK9P cannot be used with T18S cable ties.
Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

PA11 Ties

These inside serrated cable ties are manufactured from Polyamide 11 which provides excellent UV, chemical and moisture resistance, allowing a longer life span in outdoor use. This material is recommended for applications exposed to metal oxides. The tie strap has smooth edges which prevent bundle damage.

Material Data

Material	**Polyamide 11 (PA11)**
Operating Temperature	**-40 °F to +203 °F (-40 °C to +95 °C) continuous**
Flammability	**UL94 HB**



Product Selection

Article No.	Part No.	Type	Min. Tensile Strength	Length	Max Bundle	Width	Color	Pkg. Qty
			lbs. (N)	in. (mm)	in. (mm)	in. (mm)		
111-01264	111-01264	GL200	45 lbs (200)	8.0" (203)	2.0" (50)	.18" (4.7)	Black	100
111-01265	111-01265	GL250	56 lbs (250)	10.0" (252)	2.6" (65)	.19" (4.8)	Black	100
111-01266	111-01266	GL300	56 lbs (250)	12.01" (301)	3.1" (80)	.19" (4.8)	Black	100

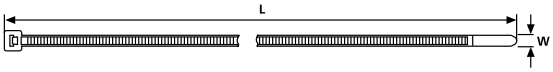
Installation tools - EVO7, MK7HT, MK7P, MK9, MK9HT, MK9P.
Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

PA12 Ties

These inside serrated cable ties are manufactured from Polyamide 12 which provides excellent UV, chemical and moisture resistance, allowing a longer life span in outdoor use. Polyamide 12 material absorbs slightly less moisture than Polyamide 11, yet is equally resistant to metal oxides. The bent tail allows for quick and simple installation through the head of the tie. The tie strap has smooth edges which prevent bundle damage.

Material Data

Material	**Polyamide 12 (PA12)**
Operating Temperature	**-40 °F to +203 °F (-40 °C to +95 °C) continuous**
Flammability	**UL94 V2**



Product Selection

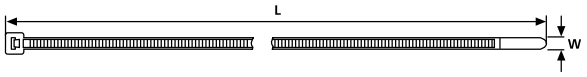
Article No.	Part No.	Type	Min. Tensile Strength	Length	Max Bundle	Width	Color	Pkg. Qty
			lbs. (N)	in. (mm)	in. (mm)	in. (mm)		
111-01560	111-01560	T50R	45 (200)	6.0" (150)	1.4" (35)	0.14" (3.6)	Black	100
111-01562	111-01562	T50L(US)	45 (200)	15.0" (390)	4.3" (110)	0.19" (4.8)	Black	100
111-01563	111-01563	T50XL(US)	45 (200)	18.0" (467)	5.3" (134)	0.19" (4.8)	Black	100

Installation tools - EVO7, MK7HT, MK7P, MK9, MK9HT, MK9P.
Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

T18 - T50 - Flame Retardant

HellermannTyton's flame retardant cable ties meet the UL 94V0 flammability requirements.

Material Data	
Material	**Polyamide 6.6 V0 (PA66V0)**
Operating Temperature	**-40 °F to +185 °F (-40 °C to +85 °C) continuous**
Flammability	**UL94 V0**



File# E64139 *File# E64139*

Product Selection

Article No.	Part No.	Type	Min. Tensile Strength lbs.	(N)	Length (L) in.	(mm)	Max. Ø Bundle in.	(mm)	Width (W) in.	(mm)	Color	Pkg. Qty.
T18R												
111-01834	**T18R9VOC2**	T18R	18 lbs	(80)	4″	(100)	.87″	(22)	.10″	(2.5)	White	100
111-01835	**T18R9VOM4**	T18R	18 lbs	(80)	4″	(100)	.87″	(22)	.10″	(2.5)	White	1000
111-01833	**T18R0VOC2**	T18R	18 lbs	(80)	4″	(100)	.87″	(22)	.10″	(2.5)	Black	100
T18I												
111-02304	**T18I9VOM4**	T18I	18 lbs	(80)	5.5″	(144)	1.38″	(35)	.10″	(2.5)	White	1000
T18L												
111-02045	**T18L9VOC2**	T18L	18 lbs	(80)	7.95″	(202)	2.17″	(55)	.10″	(2.5)	White	100
111-02046	**T18L9VOM4**	T18L	18 lbs	(80)	7.95″	(202)	2.17″	(55)	.10″	(2.5)	White	1000
111-02044	**T18L0VOC2**	T18L	18 lbs	(80)	7.95″	(202)	2.17″	(55)	.10″	(2.5)	Black	100
T30R												
111-03073	**T30R9VOC2**	T30R	30 lbs	(135)	5.83″	(148)	1.38″	(35)	.14″	(3.6)	White	100
111-03074	**T30R9VOM4**	T30R	30 lbs	(135)	5.83″	(148)	1.38″	(35)	.14″	(3.6)	White	1000
111-03072	**T30R0VOC2**	T30R	30 lbs	(135)	5.83″	(148)	1.38″	(35)	.14″	(3.6)	Black	100
T50R												
111-04909	**T50R9VOC2**	T50R	50 lbs	(225)	7.95″	(202)	1.97″	(50)	.18″	(4.6)	White	100
111-04911	**T50R9VOM4**	T50R	50 lbs	(225)	7.95″	(202)	1.97″	(50)	.18″	(4.6)	White	1000
111-04887	**T50R0VOC2**	T50R	50 lbs	(225)	7.95″	(202)	1.97″	(50)	.18″	(4.6)	Black	100
111-04908	**T50R0VOM4**	T50R	50 lbs	(225)	7.95″	(202)	1.97″	(50)	.18″	(4.6)	Black	1000
T50I												
111-05254	**T50I9VOC2**	T50I	50 lbs	(225)	11.82″	(300)	3.35″	(85)	.18″	(4.6)	White	100
111-05255	**T50I9VOM4**	T50I	50 lbs	(225)	11.82″	(300)	3.35″	(85)	.18″	(4.6)	White	1000
111-05258	**T50I0VOC2**	T50I	50 lbs	(225)	11.82″	(300)	3.35″	(85)	.18″	(4.6)	Black	100
T50L												
111-05438	**T50L9VOC2**	T50L	50 lbs	(225)	15.35″	(390)	4.33″	(110)	.19″	(4.7)	White	100
111-05476	**T50L9VOM4**	T50L	50 lbs	(225)	15.35″	(390)	4.33″	(110)	.19″	(4.7)	White	1000
111-05475	**T50L0VOC2**	T50L	50 lbs	(225)	15.35″	(390)	4.33″	(110)	.19″	(4.7)	Black	100

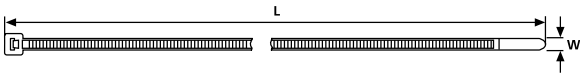
Installation tools - EVO7, MK7HT, MK7P, MK9, MK9HT, MK9P. Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

T18 - T120 - Polypropylene

HellermannTyton's polypropylene cable ties offer added resistance to most chemicals.

Material Data	
Material	**Polypropylene (PP)**
Operating Temperature	**-40 °F to +239 °F (-40 °C to +115 °C) continuous**
Flammability	**UL94 HB**

RoHS



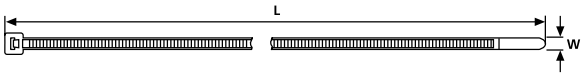
Product Selection

Article No.	Part No.	Type	Min. Tensile Strength lbs.	(N)	Length (L) in.	(mm)	Max. Ø Bundle in.	(mm)	Width (W) in.	(mm)	Color	Pkg. Qty.
T18R												
111-01921	**T18R9PPC2**	T18R	11 lbs	(49)	4″	(100)	.75″	(19)	.10″	(2.5)	Natural	100
111-01922	**T18R9PPM4**	T18R	11 lbs	(49)	4″	(100)	.75″	(19)	.10″	(2.5)	Natural	1000
111-01917	**T18R0PPC2**	T18R	11 lbs	(49)	4″	(100)	.75″	(19)	.10″	(2.5)	Black	100
111-01918	**T18R0PPM4**	T18R	11 lbs	(49)	4″	(100)	.75″	(19)	.10″	(2.5)	Black	1000
T30R												
111-03017	**T30R9PPC2**	T30R	20 lbs	(89)	5.83″	(148)	1.26″	(32)	.14″	(3.6)	Natural	100
T50R												
111-04931	**T50R9PPC2**	T50R	30 lbs	(133)	8.0″	(203.8)	1.75″	(44.5)	.19″	(4.7)	Natural	100
111-04928	**T50R0PPC2**	T50R	30 lbs	(133)	8.0″	(203.8)	1.75″	(44.5)	.19″	(4.7)	Black	100
111-04929	**T50R0PPM4**	T50R	30 lbs	(133)	8.0″	(203.8)	1.75″	(44.5)	.19″	(4.7)	Black	1000
T50I												
111-05262	**T50I9PPM4**	T50I	30 lbs	(133)	11.8″	(300)	3.35″	(85)	.18″	(4.6)	Natural	1000
T120R												
111-12067	**T120R0PPK2**	T120R	60 lbs	(267)	15.35″	(390)	4.13″	(105)	.30″	(7.6)	Black	50
111-12066	**T120R0PPH4**	T120R	60 lbs	(267)	15.35″	(390)	4.13″	(105)	.30″	(7.6)	Black	500

Installation tools - EVO7, MK7HT, MK7P, MK9, MK9HT, MK9P. Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

ETFE Cable Ties

ETFE ties provide excellent protection against radiation, ultraviolet light, and a wide range of chemicals. They are also rated for low outgassing applications. HellermannTyton's ETFE ties come in a standard color of blue for easy identification.



Material Data	
Material	**Ethylenterafluorineethylene (ETFE)**
Operating Temperature	**-112 °F to +338°F (-80 °C to +170 °C) continuous**
Flammability	**UL94 V0**

RoHS

Product Selection

Article No.	Part No.	Type	Min. Tensile Strength lbs.	(N)	Length (L) in.	(mm)	Max. Ø Bundle in.	(mm)	Width (W) in.	(mm)	Color	Pkg. Qty.
111-00659	**111-00659**	T18R	18 lbs	(80)	4″	(100)	.87″	(22)	.10″	(2.5)	Blue	100
111-00698	**111-00698**	T30R	30 lbs	(133)	5.9″	(150)	1.42″	(36)	.14″	(3.5)	Blue	100
111-00732	**111-00732**	T50R	50 lbs	(222)	8″	(200)	1.97″	(50)	.18″	(4.6)	Blue	100
111-00718	**111-00718**	T50L	50 lbs	(222)	15″	(380)	4.13″	(105)	.18″	(4.6)	Blue	100
111-01125	**111-01125**	T120R	120 lbs	(535)	15″	(380)	4.13″	(105)	.30″	(7.6)	Blue	50

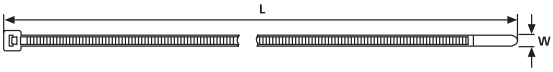
Installation tools - EVO7, MK7HT, MK7P, MK9, MK9HT, MK9P.
Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

Cable Ties for Plenum Applications

HellermannTyton halar and U.L. Listed cable ties meet NEC regulations and can be used in applications where low smoke and low flame are a concern in air handling spaces.

Halar Cable Ties

The raw material used to manufacture HellermannTyton halar cable ties is UL 94V0 rated. The halar ties come in a distinct color of red for easy identification.



Material Data	
Material	**PA66HL**
Operating Temperature	**-104 °F to +300 °F (-76 °C to +150 °C) continuous**
Flammability	**UL94 V0**

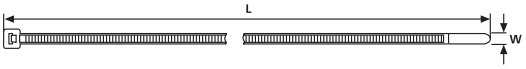
RoHS

Product Selection

Article No.	Part No.	Type	Min. Tensile Strength lbs.	(N)	Length (L) in.	(mm)	Max. Ø Bundle in.	(mm)	Width (W) in.	(mm)	Color	Pkg. Qty.
111-01900	**T18R2HALC2**	T18R	14 lbs	(80)	4″	(100)	.87″	(22)	.10″	(2.45)	Red	100
111-01902	**T18R2HALM4**	T18R	14 lbs	(80)	4″	(100)	.87″	(22)	.10″	(2.45)	Red	1000
111-04895	**T50R2HALC2**	T50R	40 lbs	(177.9)	8.0″	(203.2)	1.75″	(44.45)	.176″	(4.5)	Red	100
111-04897	**T50R2HALM4**	T50R	40 lbs	(177.9)	8.0″	(203.2)	1.75″	(44.45)	.176″	(4.5)	Red	1000
111-01332	**111-01332**	T120R	80 lbs	(355.9)	15.5″	(394.4)	4.0″	(101.6)	.31″	(7.8)	Red	50

Note: Halar ties are also available in natural color. Contact HellermannTyton for availability. Halar is a registered trademark of Solvay S.A.
Installation tools - EVO7, MK7HT, MK7P, MK9, MK9HT, MK9P. Dimensions are approximate and subject to technical changes.
Use **Part No.** for ordering and **Type** for specification purposes.

UL Rated Cable Ties



Material Data	
Material	**Polyamide 6.6 (PA66)**
Operating Temperature	**-40 °F to +185 °F (-40 °C to +85 °C) continuous**
Flammability	**UL94 V2**

RoHS

File# E64139 *File# E64139*

Product Selection

Article No.	Part No.	Type	Min. Tensile Strength lbs.	(N)	Length (L) in.	(mm)	Max. Ø Bundle in.	(mm)	Width (W) in.	(mm)	Color	Pkg. Qty.
111-00508	**T18R9C2UL**	T18R	18 lbs	(80)	4″	(100)	.86″	(22)	.10″	(2.5)	Natural	100
111-00509	**T18R9M4UL**	T18R	18 lbs	(80)	4″	(100)	.86″	(22)	.10″	(2.5)	Natural	1000
111-00510	**T18R2C2UL**	T18R	18 lbs	(80)	4″	(100)	.86″	(22)	.10″	(2.5)	Red	100
111-00511	**T18R2M4UL**	T18R	18 lbs	(80)	4″	(100)	.86″	(22)	.10″	(2.5)	Red	1000
111-00512	**T50R9C2UL**	T50R	50 lbs	(225)	7.9″	(200)	1.97″	(50)	.18″	(4.6)	Natural	100
111-00513	**T50R9M4UL**	T50R	50 lbs	(225)	7.9″	(200)	1.97″	(50)	.18″	(4.6)	Natural	1000
111-00514	**T50R2C2UL**	T50R	50 lbs	(225)	7.9″	(200)	1.97″	(50)	.18″	(4.6)	Red	100
111-00515	**T50R2M4UL**	T50R	50 lbs	(225)	7.9″	(200)	1.97″	(50)	.18″	(4.6)	Red	1000
111-00516	**T50I9C2UL**	T50I	50 lbs	(225)	11.8″	(300)	3.35″	(85)	.18″	(4.6)	Natural	100
111-00517	**T50I9M4UL**	T50I	50 lbs	(225)	11.8″	(300)	3.35″	(85)	.18″	(4.6)	Natural	1000
111-00518	**T50I2C2UL**	T50I	50 lbs	(225)	11.8″	(300)	3.35″	(85)	.18″	(4.6)	Red	100
111-00519	**T50I2M4UL**	T50I	50 lbs	(225)	11.8″	(300)	3.35″	(85)	.18″	(4.6)	Red	1000
111-00520	**T50L9C2UL**	T50L	50 lbs	(225)	15.35″	(390)	4.33″	(110)	.18″	(4.6)	Natural	100
111-00521	**T50L9M4UL**	T50L	50 lbs	(225)	15.35″	(390)	4.33″	(110)	.18″	(4.6)	Natural	1000
111-00522	**T50L2C2UL**	T50L	50 lbs	(225)	15.35″	(390)	4.33″	(110)	.18″	(4.6)	Red	100
111-00523	**T50L2M4UL**	T50L	50 lbs	(225)	15.35″	(390)	4.33″	(110)	.18″	(4.6)	Red	1000

Installation tools - EVO7, MK7HT, MK7P, MK9, MK9HT, MK9P. Dimensions are approximate and subject to technical changes.
Use **Part No.** for ordering and **Type** for specification purposes.

Metal Content Tie

HellermannTyton's Metal Content Tie is designed for the food and beverage processing industries to meet the safety standards set by Hazard Analysis and Critical Control Points (HACCP) to minimize the risk of contamination. The Metal Content Tie is a nylon based tie with metal content dispersed throughout the head and strap, allowing the tie to be easily identifiable by metal detectors and X-ray inspections. It is ideally suited for the management of cables and tubing in processing and packaging areas. The plastic tie can be found by metal detectors and identified in food and other products that have accidently been contaminated either through human error or loose, cut-off sections.

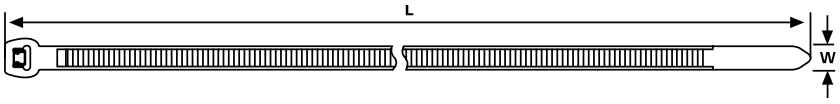
Product Features

- Metal content dispersed throughout the head and strap ensures identification by metal detectors and X-ray machines.
- Industry standard blue color assists with visual detection and greatly reduces the risk of contamination.
- Three different sizes and two tensile strengths.

Material Data

Material	**Polyamide 6.6 with metal particles (PA66MP)**
Operating Temperature	**-40 °F to +185 °F (-40 °C to +85 °C) continuous**

RoHS



Product Selection

Article No.	Part No.	Type	Min. Tensile Strength lbs.	(N)	Length (L) in.	(mm)	Width (W) in.	(mm)	Color	Pkg. Qty.
111-00829	**111-00829**	MCT30R	30 lbs.	(135)	5.91"	(150)	.14"	(3.5)	Blue	100
111-00830	**111-00830**	MCT50R	50 lbs.	(225)	7.87"	(200)	.18"	(4.6)	Blue	100
111-00831	**111-00831**	MCT50L	50 lbs.	(225)	15.35"	(390)	.18"	(4.6)	Blue	100

Installation tools - EVO7, MK7HT, MK7P, MK9, MK9HT, MK9P. Dimensions are approximate and subject to technical changes.
Use **Part No.** for ordering and **Type** for specification purposes.